FCC Test Report

Equipment	:	MAP-AC1750
Brand Name	:	ASUS
Model No.	:	MAP-AC1750
FCC ID	:	MSQ-RTACRW00
Standard	:	47 CFR FCC Part 15.247
Operating Band	:	2400 MHz – 2483.5 MHz
Function	:	☒ Point-to-multipoint; ☐ Point-to-point
Applicant	:	ASUSTeK Computer Inc 4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Manufacturer	:	ASUSTeK Computer Inc 4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan

The product sample received on Oct. 03, 2017 and completely tested on Dec. 20, 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

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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
FR7N0218AA	Rev. 01	Initial issue of report	Jan. 12, 2018

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	3TX
2.4-2.4835GHz	802.11g	20	3TX
2.4-2.4835GHz	802.11n HT20	20	3TX
2.4-2.4835GHz	802.11n HT40	40	3TX

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.
- 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.	2.4GHz Port	5GHz Port	Brand	Part Number	Antenna Type	Connector	Gain (dBi)			
							WLAN 2.4GHz	5GHz Band 1	5GHz Band 4	BT
1	1	2	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	2.21	2.70	2.80	-
2	2	3	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	2.28	2.81	2.34	-
3	3	1	WHA YU	C059-510402-A	Dipole Antenna	I-PEX	2.41	1.97	2.51	-
4	1	-	WHA YU	C059-510402-A	PIFA Antenna	I-PEX	-	-	-	2

Note: The EUT has four antennas.

For WLAN function (3TX, 3RX):

Ant. 1 ~ Ant. 3 can be used as transmitting/receiving antenna.

Ant. 1 ~ Ant. 3 could transmit/receive simultaneously.

For Bluetooth function (1TX, 1RX):

Only Ant. 4 can be used as transmitting/receiving functions.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.996	0.017	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.975	0.11	2.025m	1k
802.11n HT20	0.975	0.11	1.889m	1k
802.11n HT40	0.961	0.173	928.75u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Test Software Version	Cart			

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 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	Paul Chen	22°C / 54%	Nov. 21, 2017~Dec. 20, 2017
Radiated	03CH01-CB	Zero Chen / Gino Huang / Mason Chen / Edidie Weng / Brian Sun	22°C / 54%	Nov. 02, 2017~Dec. 15, 2017
AC Conduction	CO02-CB	Rick Yeh	26°C / 60%	Dec. 13, 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)_3TX	-
2412MHz	25
2437MHz	25
2462MHz	25
802.11g_(6Mbps)_3TX	-
2412MHz	21.5
2417MHz	21
2422MHz	22.5
2427MHz	23
2432MHz	24
2437MHz	25
2442MHz	24
2447MHz	23.5
2452MHz	23
2457MHz	21.5
2462MHz	22
802.11n HT20_Nss1,(MCS0)_3TX	-
2412MHz	21.5
2417MHz	21.5
2422MHz	22.5
2427MHz	22.5
2432MHz	23.5
2437MHz	25
2442MHz	24
2447MHz	23
2452MHz	23
2457MHz	22.5
2462MHz	21
802.11n HT40_Nss1,(MCS0)_3TX	-
2422MHz	20.5
2427MHz	21
2432MHz	22
2437MHz	23.5
2442MHz	21.5
2447MHz	20.5
2452MHz	20

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	Repeater Mode (2.4GHz + Bluetooth) + Adapter 1
2	Repeater Mode (5GHz + Bluetooth) + Adapter 1
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	Repeater Mode (5GHz + Bluetooth) + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	

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	Repeater Mode (2.4GHz + Bluetooth) + Adapter 1
2	Repeater Mode (5GHz + Bluetooth) + Adapter 1
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	Repeater Mode (5GHz + Bluetooth) + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz
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 + Bluetooth
Refer to Sporton Test Report No.: FA7N0218 for Co-location RF Exposure Evaluation.	

Note 1: The EUT supports AP/Repeater/slave without radar detection/Mesh, only Repeater mode has been tested and recorded in this test report.
Note 2: The EUT can only be used in Z axis position.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

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 1	DVE	DSA-18PFR-12 FUS 120150	INPUT: 100-240V~50/60Hz, 0.6A Output: +12V, 1.5A
2	Adapter 2	DVE	DSA-18CB-12 FCA 120150	INPUT: 100-240V~50/60Hz, 0.6A Output: +12V, 1.5A
Others				
US Plug*1 (For adapter 2 use)				
RJ-45 cable*1, Non Shielded, 1m				

2.5 Support Equipment

For Test Site No: CO02-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*4	DELL	E6430	DoC
2	Device NB	DELL	E6430	DoC
3	Smart phone	Samsung	Galaxy J2	DoC
4	Device	ASUS	MAP-AC1750	DoC

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

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*5	DELL	E4300	DoC
2	Device	ASUS	MAP-AC1750	DoC
3	Smart phone	Samsung	Galaxy J2	DoC

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

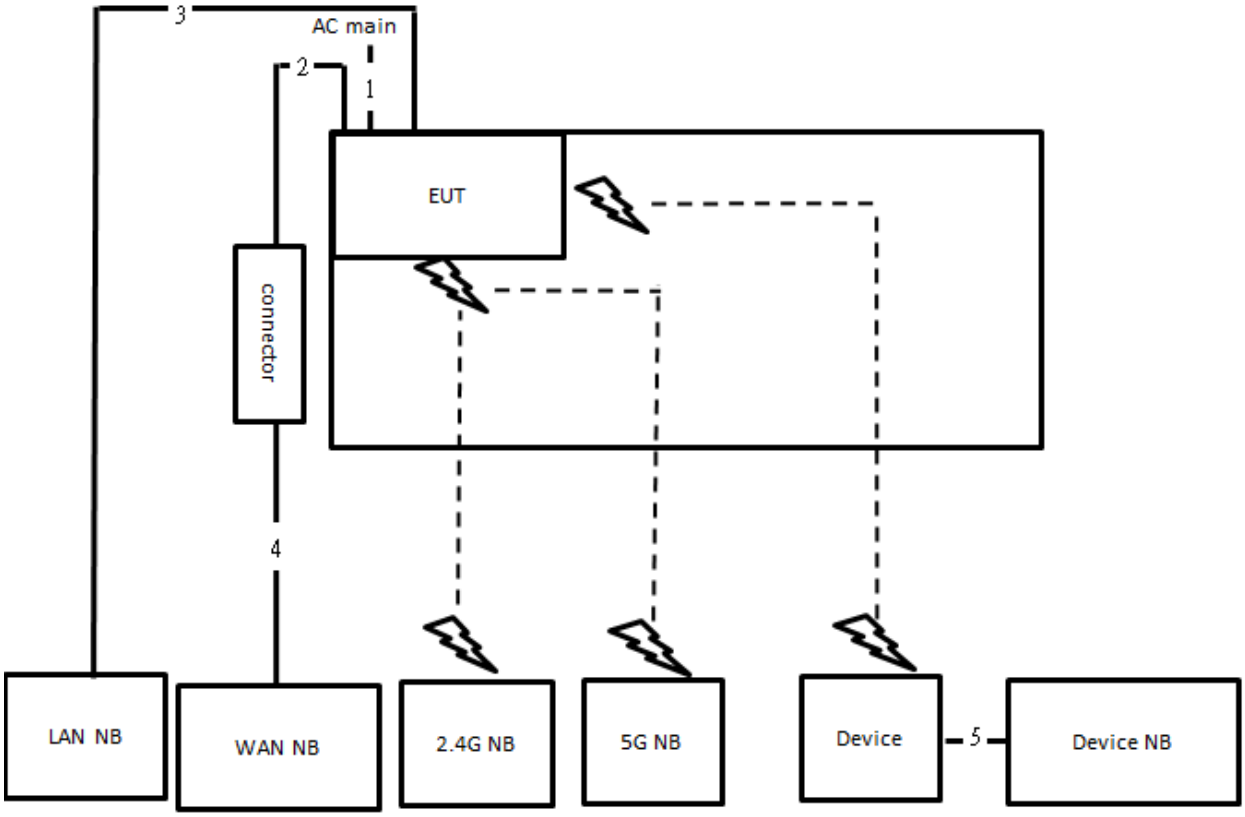
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC

For Test Site No: TH01-CB

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

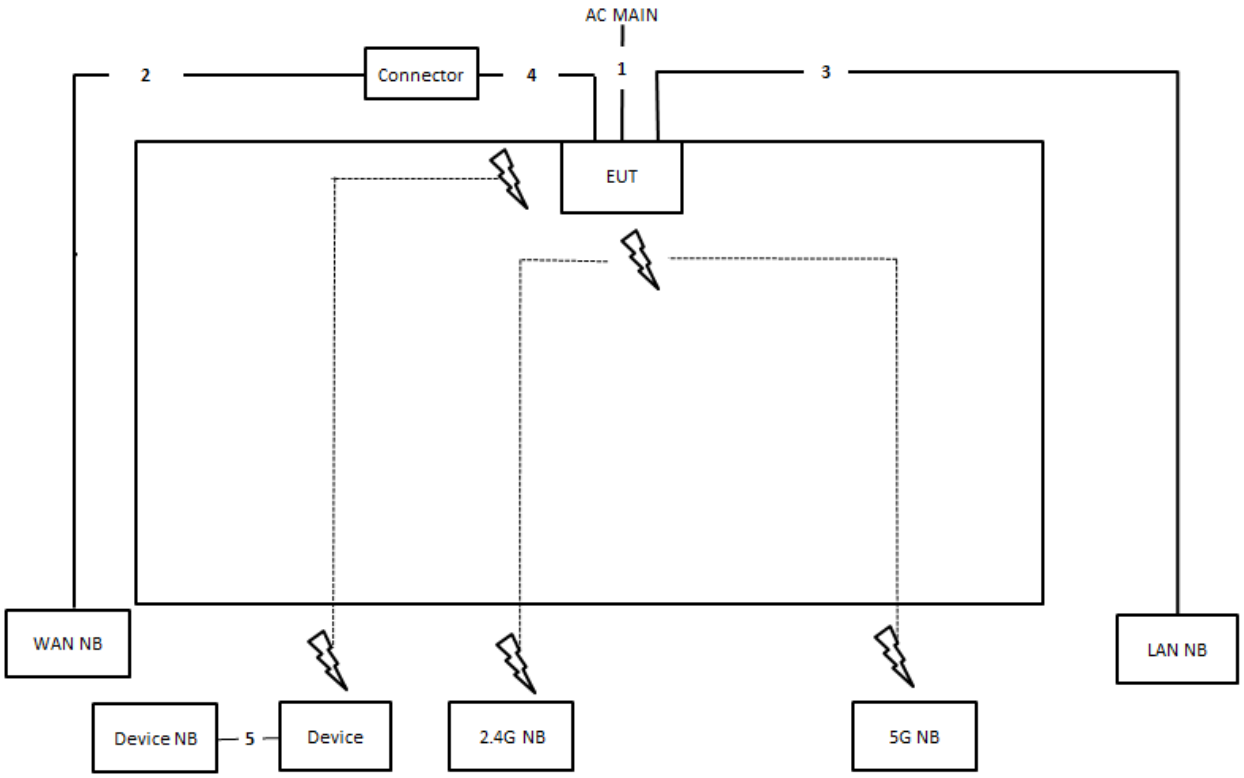
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



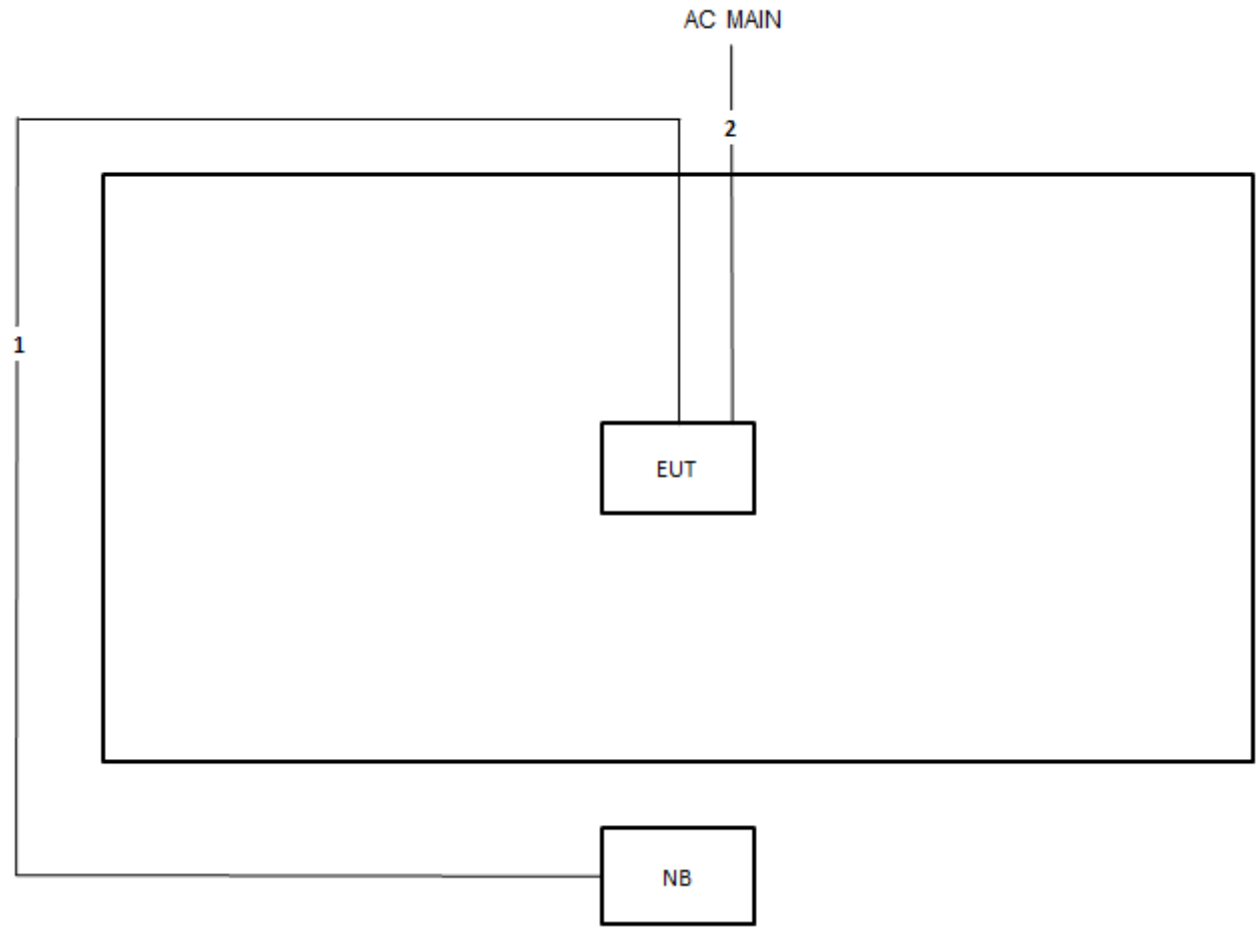
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1m

Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

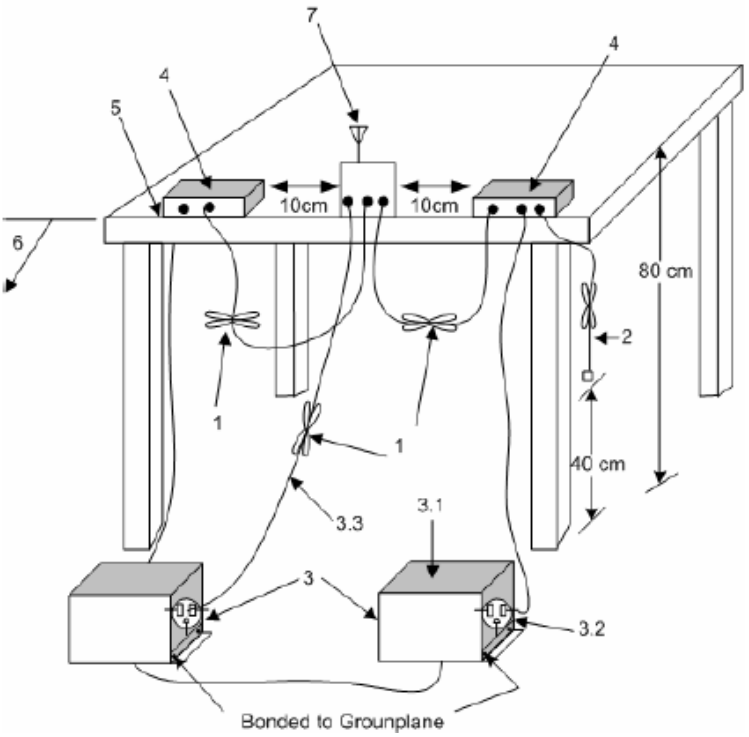
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

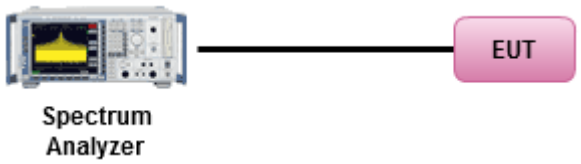
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.1 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

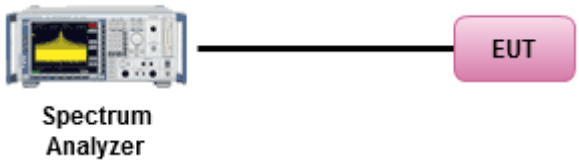
3.4.2 Measuring Instruments

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

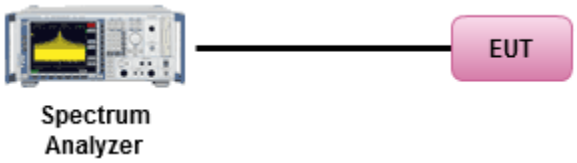
Refer a test equipment and calibration data table in this test report.

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.

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

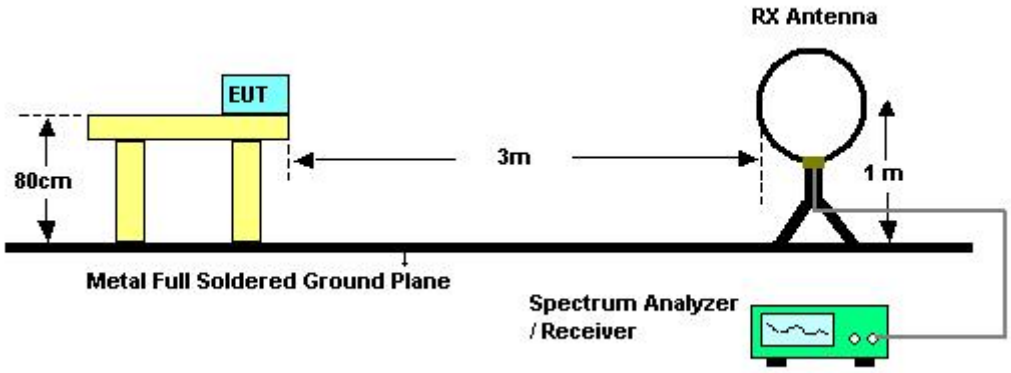
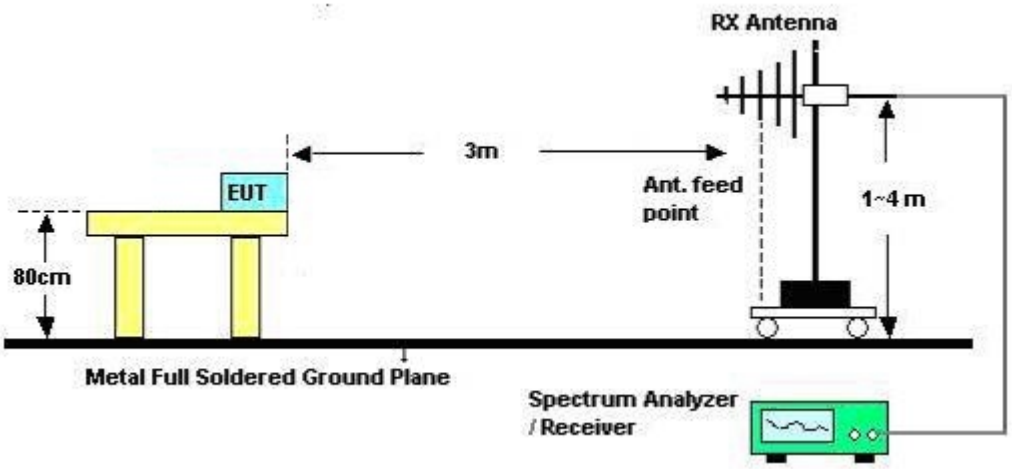
3.6.2 Measuring Instruments

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

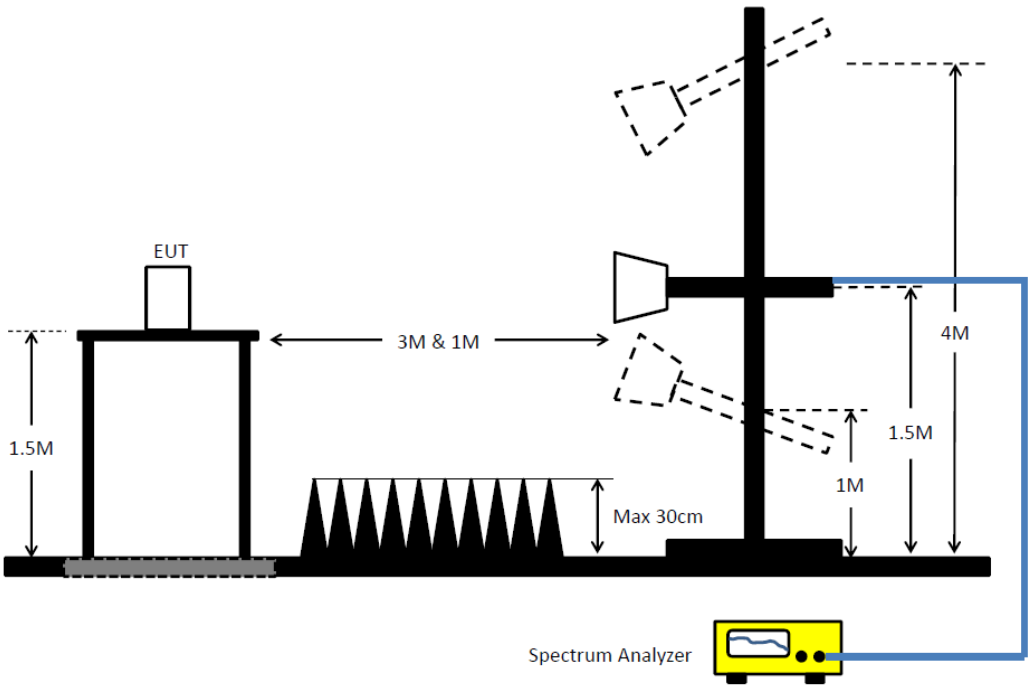
3.6.3 Test Procedures

Test Method		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ Refer as ANSI C63.10, clause 6.9.2.2 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

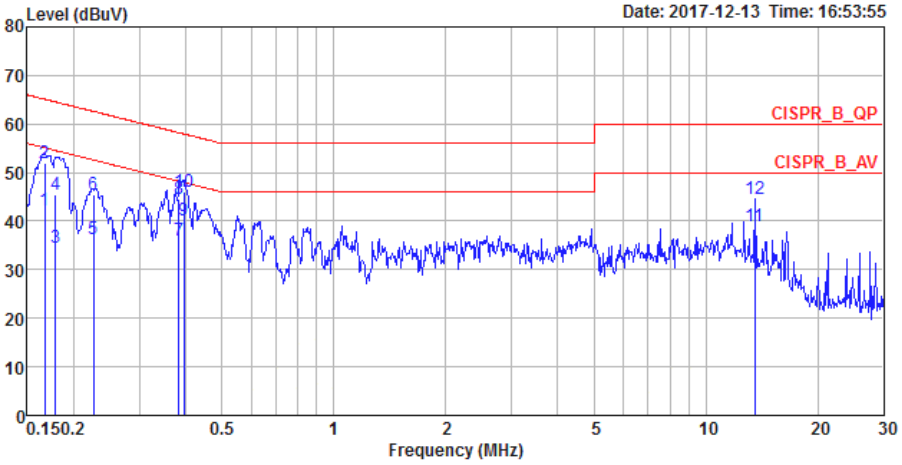
4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 24, 2017	Nov. 23, 2018	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2017	Nov. 12, 2018	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2017	Jan. 15, 2018	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 10, 2017	Nov. 09, 2018	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F	9561-F073	9kHz ~ 30MHz	Oct. 03, 2017	Oct. 02, 2018	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	N/A	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	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.

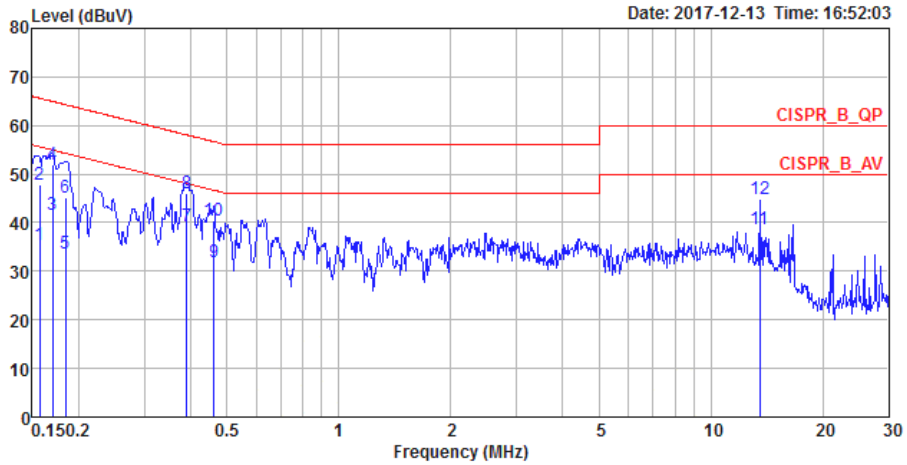
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1668	42.12	-13.00	55.12	32.10	10.01	0.01	Average	NEUTRAL
2	0.1668	52.03	-13.09	65.12	42.01	10.01	0.01	QP	NEUTRAL
3	0.1787	34.60	-19.95	54.55	24.60	9.99	0.01	Average	NEUTRAL
4	0.1787	45.57	-18.98	64.55	35.57	9.99	0.01	QP	NEUTRAL
5	0.2256	36.40	-16.21	52.61	26.43	9.96	0.01	Average	NEUTRAL
6	0.2256	45.34	-17.27	62.61	35.37	9.96	0.01	QP	NEUTRAL
7	0.3832	35.99	-12.22	48.21	26.02	9.94	0.03	Average	NEUTRAL
8	0.3832	44.69	-13.52	58.21	34.72	9.94	0.03	QP	NEUTRAL
9	0.3955	40.14	-7.81	47.95	30.17	9.94	0.03	Average	NEUTRAL
10	0.3955	46.08	-11.87	57.95	36.11	9.94	0.03	QP	NEUTRAL
11	13.5601	38.91	-11.09	50.00	28.62	10.20	0.09	Average	NEUTRAL
12	13.5601	44.58	-15.42	60.00	34.29	10.20	0.09	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	2	**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	0.1573	35.44	-20.16	55.60	25.45	9.98	0.01	Average	LINE
2	0.1573	47.84	-17.76	65.60	37.85	9.98	0.01	QP	LINE
3	0.1699	41.58	-13.39	54.97	31.61	9.96	0.01	Average	LINE
4	0.1699	51.98	-12.99	64.97	42.01	9.96	0.01	QP	LINE
5	0.1844	33.69	-20.59	54.28	23.75	9.93	0.01	Average	LINE
6	0.1844	45.30	-18.98	64.28	35.36	9.93	0.01	QP	LINE
7	0.3896	39.23	-8.84	48.07	29.33	9.87	0.03	Average	LINE
8	0.3896	46.12	-11.95	58.07	36.22	9.87	0.03	QP	LINE
9	0.4612	31.82	-14.85	46.67	21.91	9.88	0.03	Average	LINE
10	0.4612	40.37	-16.30	56.67	30.46	9.88	0.03	QP	LINE
11	13.5600	38.82	-11.18	50.00	28.61	10.12	0.09	Average	LINE
12	13.5600	44.76	-15.24	60.00	34.55	10.12	0.09	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)_3TX	-	-	-	-	-
2.4-2.4835GHz	7.05M	12.519M	12M5G1D	6.55M	12.094M
802.11g_(6Mbps)_3TX	-	-	-	-	-
2.4-2.4835GHz	15.075M	17.316M	17M3D1D	13.775M	16.217M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-
2.4-2.4835GHz	15.075M	17.916M	17M9D1D	13.15M	17.341M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-
2.4-2.4835GHz	31.3M	35.932M	35M9D1D	26.25M	35.582M

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

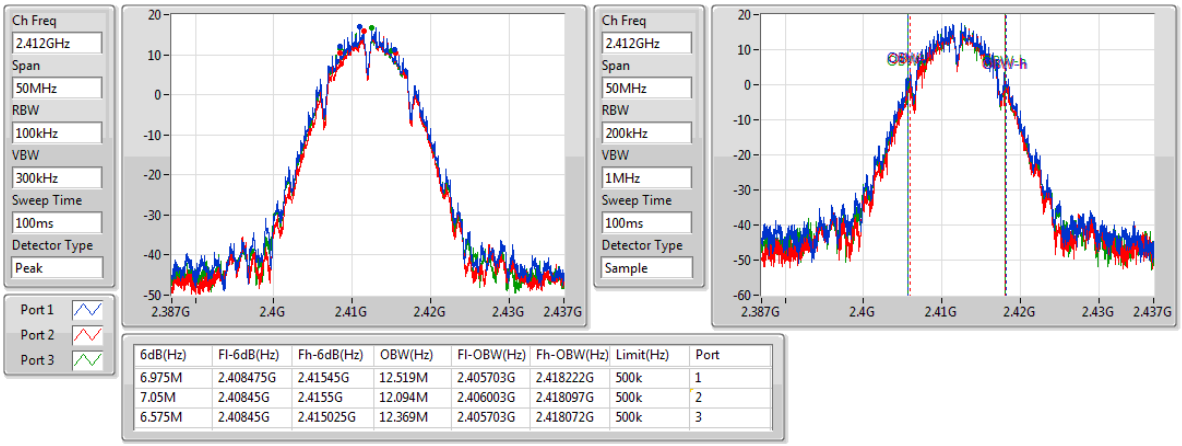
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	6.975M	12.519M	7.05M	12.094M	6.575M	12.369M
2437MHz	Pass	500k	7.025M	12.394M	6.55M	12.144M	7.025M	12.194M
2462MHz	Pass	500k	7.05M	12.219M	7M	12.094M	7.05M	12.194M
802.11g_(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	14.075M	16.267M	13.85M	16.217M	15.05M	16.217M
2437MHz	Pass	500k	15.075M	17.316M	13.775M	16.442M	15.05M	16.567M
2462MHz	Pass	500k	15M	16.267M	14.975M	16.217M	15.075M	16.242M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	13.75M	17.391M	13.725M	17.341M	15.05M	17.416M
2437MHz	Pass	500k	14.075M	17.916M	13.15M	17.641M	13.775M	17.691M
2462MHz	Pass	500k	15.075M	17.391M	13.85M	17.366M	14.4M	17.341M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	31.25M	35.732M	27.5M	35.582M	26.25M	35.832M
2437MHz	Pass	500k	30.05M	35.932M	31.25M	35.782M	31.3M	35.932M
2452MHz	Pass	500k	28.75M	35.732M	30.1M	35.782M	30M	35.782M

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

802.11b_(1Mbps)_3TX

EBW

2412MHz

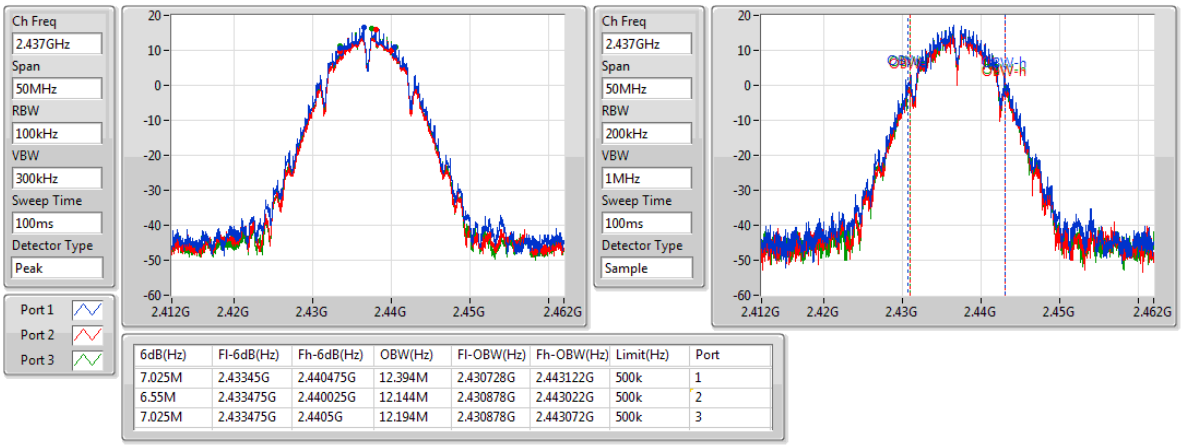


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
6.975M	2.408475G	2.41545G	12.519M	2.405703G	2.418222G	500k	1
7.05M	2.40845G	2.4155G	12.094M	2.406003G	2.418097G	500k	2
6.575M	2.40845G	2.415025G	12.369M	2.405703G	2.418072G	500k	3

802.11b_(1Mbps)_3TX

EBW

2437MHz

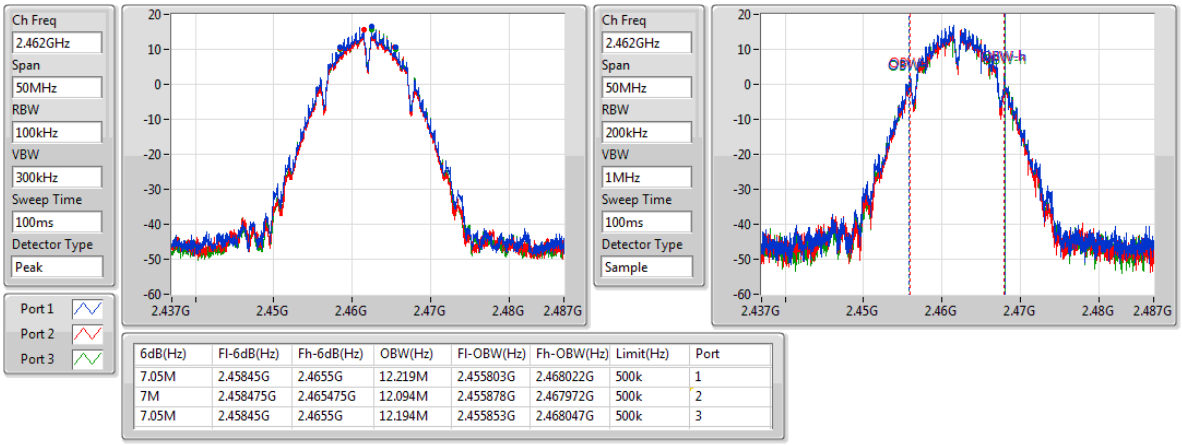


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.025M	2.43345G	2.440475G	12.394M	2.430728G	2.443122G	500k	1
6.55M	2.433475G	2.440025G	12.144M	2.430878G	2.443022G	500k	2
7.025M	2.433475G	2.4405G	12.194M	2.430878G	2.443072G	500k	3

802.11b_(1Mbps)_3TX

EBW

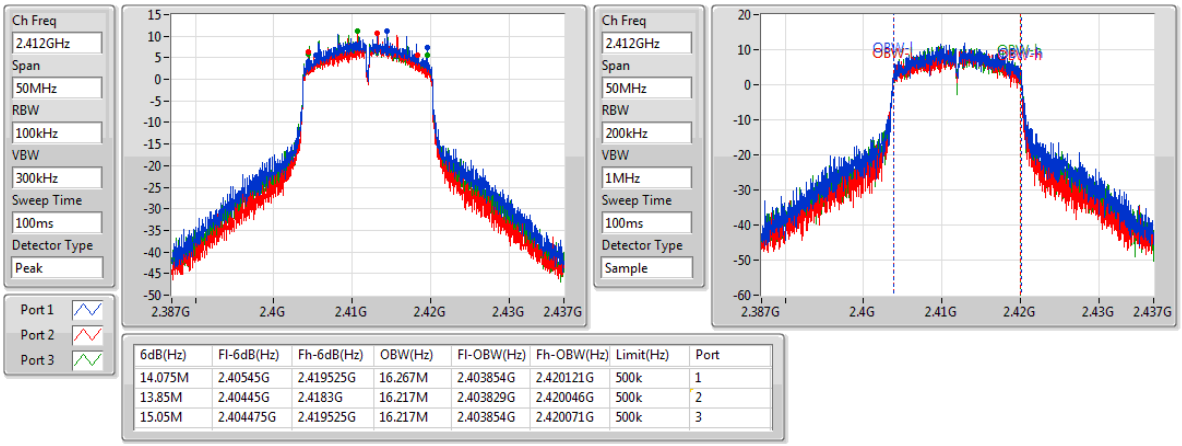
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.05M	2.45845G	2.4655G	12.219M	2.455803G	2.468022G	500k	1
7M	2.458475G	2.465475G	12.094M	2.455878G	2.467972G	500k	2
7.05M	2.45845G	2.4655G	12.194M	2.455853G	2.468047G	500k	3

802.11g_(6Mbps)_3TX EBW

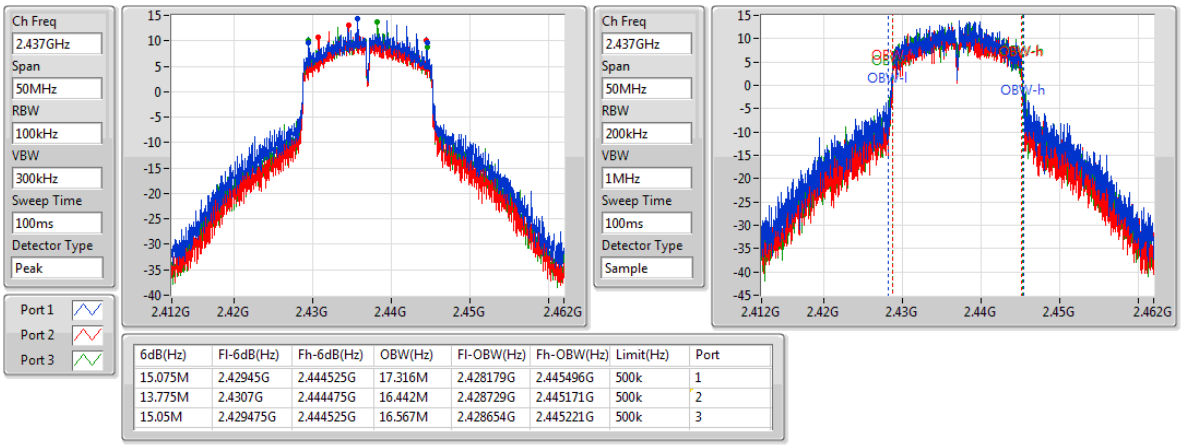
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.075M	2.40545G	2.419525G	16.267M	2.403854G	2.420121G	500k	1
13.85M	2.40445G	2.4183G	16.217M	2.403829G	2.420046G	500k	2
15.05M	2.404475G	2.419525G	16.217M	2.403854G	2.420071G	500k	3

802.11g_(6Mbps)_3TX EBW

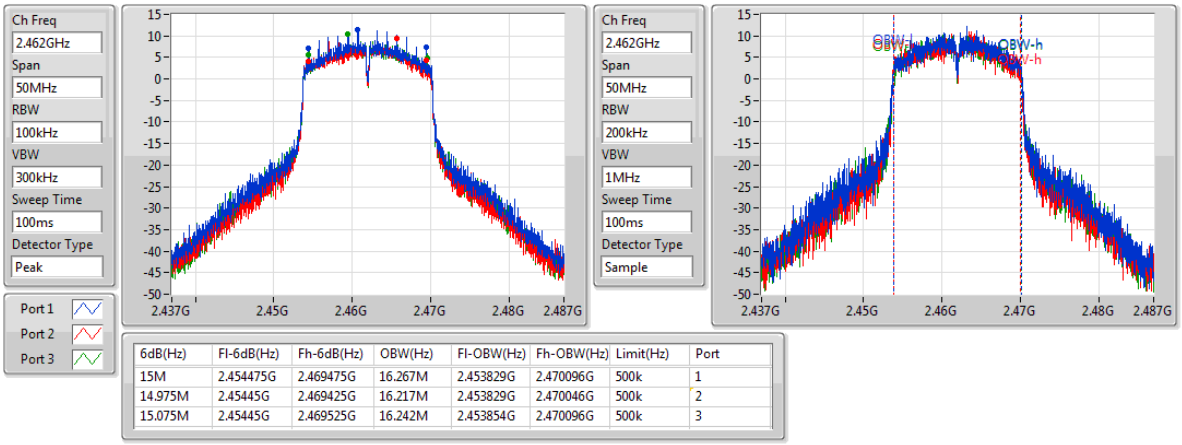
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.42945G	2.444525G	17.316M	2.428179G	2.445496G	500k	1
13.775M	2.4307G	2.444475G	16.442M	2.428729G	2.445171G	500k	2
15.05M	2.429475G	2.444525G	16.567M	2.428654G	2.445221G	500k	3

802.11g_(6Mbps)_3TX EBW

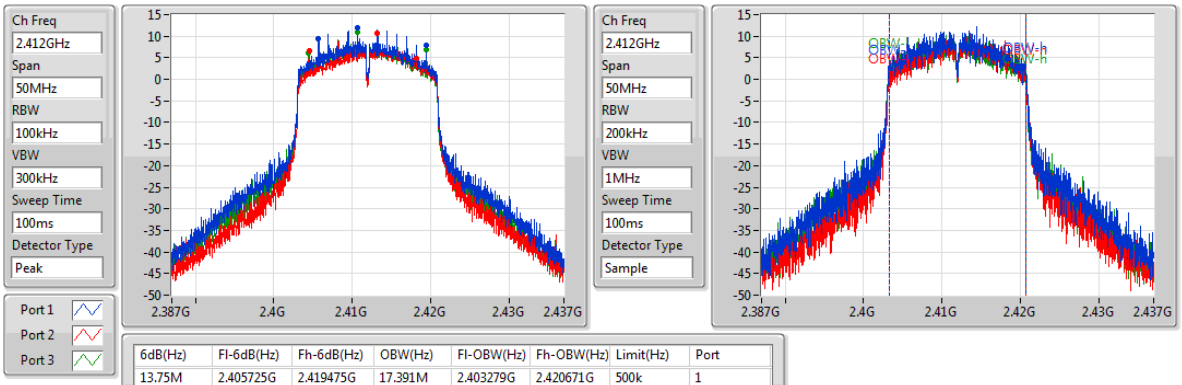
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	2.454475G	2.469475G	16.267M	2.453829G	2.470096G	500k	1
14.975M	2.45445G	2.469425G	16.217M	2.453829G	2.470046G	500k	2
15.075M	2.45445G	2.469525G	16.242M	2.453854G	2.470096G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX EBW

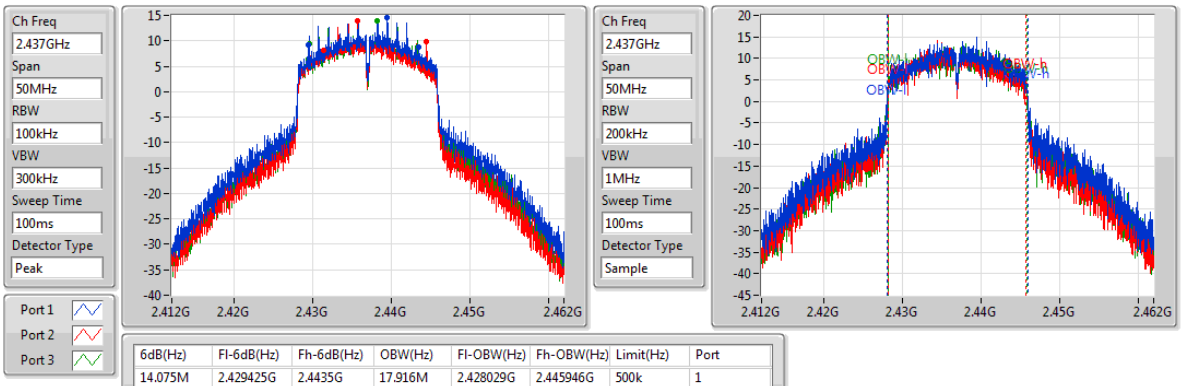
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.75M	2.405725G	2.419475G	17.391M	2.403279G	2.420671G	500k	1
13.725M	2.4045G	2.418225G	17.341M	2.403329G	2.420671G	500k	2
15.05M	2.40445G	2.4195G	17.416M	2.403229G	2.420646G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX EBW

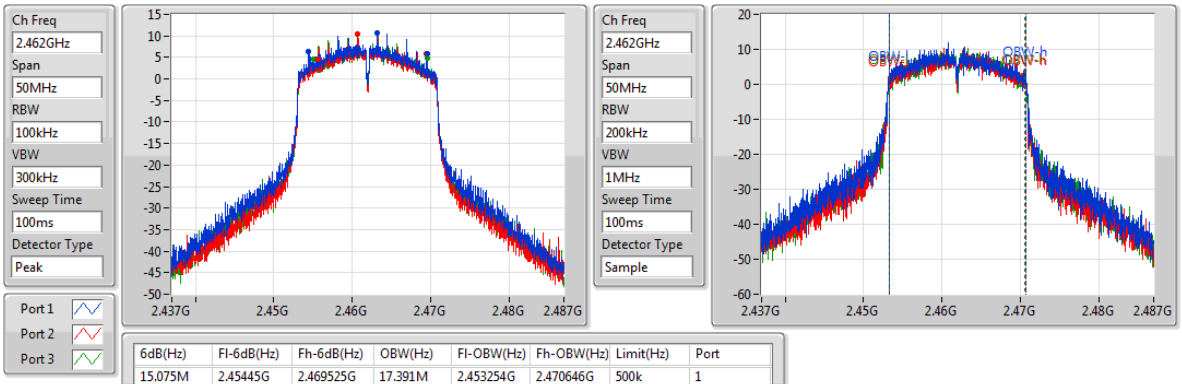
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.075M	2.429425G	2.4435G	17.916M	2.428029G	2.445946G	500k	1
13.15M	2.43135G	2.4445G	17.641M	2.428129G	2.445771G	500k	2
13.775M	2.429525G	2.4433G	17.691M	2.428104G	2.445796G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX EBW

2462MHz

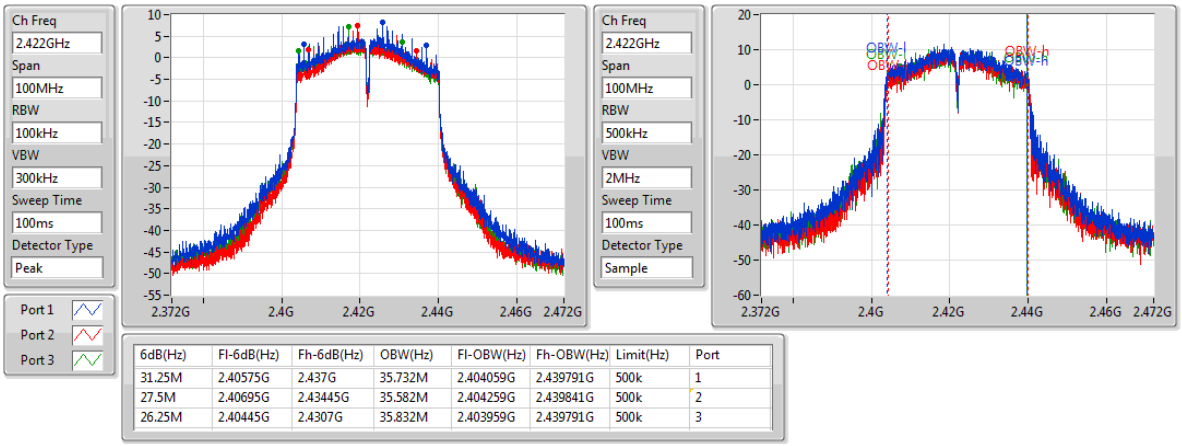


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.45445G	2.469525G	17.391M	2.453254G	2.470646G	500k	1
13.85M	2.45565G	2.4695G	17.366M	2.453304G	2.470671G	500k	2
14.4M	2.455125G	2.469525G	17.341M	2.453279G	2.470621G	500k	3

802.11n HT40_Nss1,(MCS0)_3TX

EBW

2422MHz

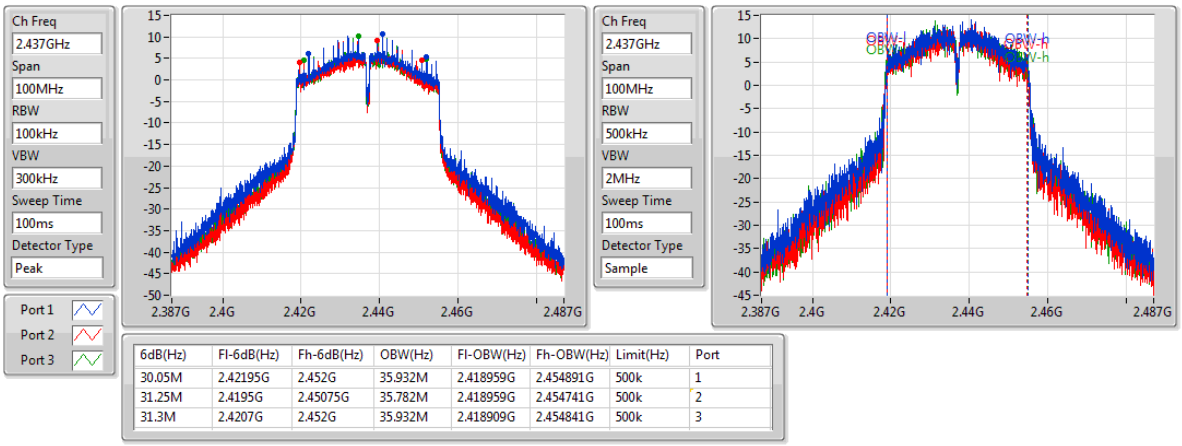


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.25M	2.40575G	2.437G	35.732M	2.404059G	2.439791G	500k	1
27.5M	2.40695G	2.43445G	35.582M	2.404259G	2.439841G	500k	2
26.25M	2.40445G	2.4307G	35.832M	2.403959G	2.439791G	500k	3

802.11n HT40_Nss1,(MCS0)_3TX

EBW

2437MHz

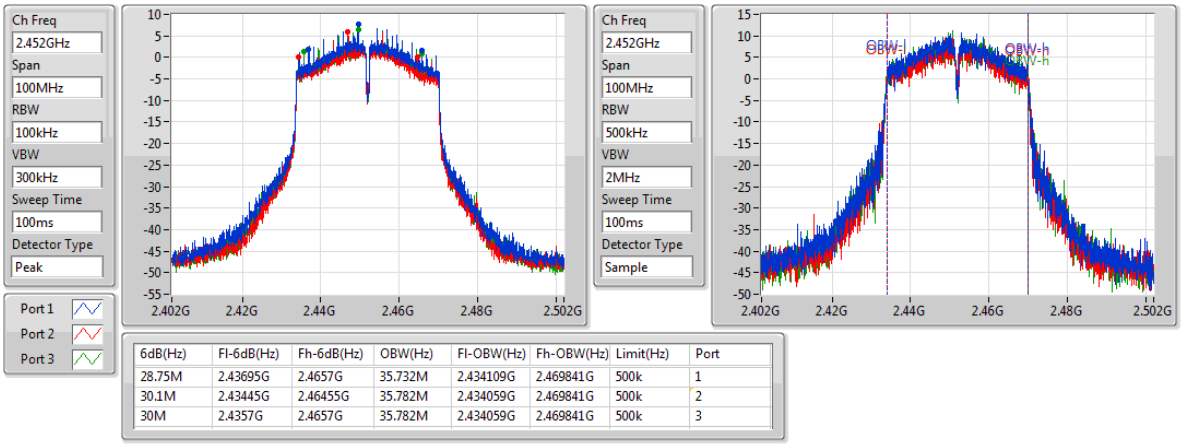


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.05M	2.42195G	2.452G	35.932M	2.418959G	2.454891G	500k	1
31.25M	2.4195G	2.45075G	35.782M	2.418959G	2.454741G	500k	2
31.3M	2.4207G	2.452G	35.932M	2.418909G	2.454841G	500k	3

802.11n HT40_Nss1,(MCS0)_3TX

EBW

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
28.75M	2.43695G	2.4657G	35.732M	2.434109G	2.469841G	500k	1
30.1M	2.43445G	2.46455G	35.782M	2.434059G	2.469841G	500k	2
30M	2.4357G	2.4657G	35.782M	2.434059G	2.469841G	500k	3

Summary

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_3TX	-	-
2.4-2.4835GHz	29.72	0.93756
802.11g_(6Mbps)_3TX	-	-
2.4-2.4835GHz	29.08	0.80910
802.11n HT20_Nss1,(MCS0)_3TX	-	-
2.4-2.4835GHz	29.42	0.87498
802.11n HT40_Nss1,(MCS0)_3TX	-	-
2.4-2.4835GHz	27.58	0.57280

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.41	24.83	24.75	25.08	29.66	30.00
2437MHz	Pass	2.41	25.39	24.57	24.85	29.72	30.00
2462MHz	Pass	2.41	25.03	24.29	24.63	29.43	30.00
802.11g_(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.41	21.83	22.36	21.86	26.79	30.00
2437MHz	Pass	2.41	24.17	24.51	24.24	29.08	30.00
2462MHz	Pass	2.41	22.47	21.78	22.06	26.88	30.00
2417MHz	Pass	2.41	21.45	21.69	21.21	26.23	30.00
2422MHz	Pass	2.41	22.55	23.03	22.36	27.43	30.00
2427MHz	Pass	2.41	22.92	23.35	22.94	27.85	30.00
2432MHz	Pass	2.41	23.65	24.08	23.52	28.53	30.00
2442MHz	Pass	2.41	24.08	23.09	23.76	28.43	30.00
2447MHz	Pass	2.41	23.37	23.12	22.85	27.89	30.00
2452MHz	Pass	2.41	23.47	22.22	23.20	27.77	30.00
2457MHz	Pass	2.41	21.46	21.69	21.48	26.32	30.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	2.41	21.65	21.93	21.58	26.49	30.00
2437MHz	Pass	2.41	25.15	24.14	24.61	29.42	30.00
2462MHz	Pass	2.41	20.92	20.84	20.55	25.54	30.00
2417MHz	Pass	2.41	21.54	21.96	21.46	26.43	30.00
2422MHz	Pass	2.41	22.61	21.62	22.72	27.12	30.00
2427MHz	Pass	2.41	22.97	21.70	22.71	27.26	30.00
2432MHz	Pass	2.41	23.29	23.37	23.05	28.01	30.00
2442MHz	Pass	2.41	23.26	23.79	23.18	28.19	30.00
2447MHz	Pass	2.41	22.58	22.73	22.35	27.33	30.00
2452MHz	Pass	2.41	22.65	22.76	22.16	27.30	30.00
2457MHz	Pass	2.41	22.28	22.33	22.02	26.98	30.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	2.41	20.17	20.85	20.02	25.13	30.00
2437MHz	Pass	2.41	22.62	23.11	22.67	27.58	30.00
2452MHz	Pass	2.41	19.12	19.73	19.05	24.08	30.00
2427MHz	Pass	2.41	20.49	21.12	20.57	25.51	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
2432MHz	Pass	2.41	21.55	21.76	21.06	26.24	30.00
2442MHz	Pass	2.41	21.07	21.49	20.95	25.95	30.00
2447MHz	Pass	2.41	19.69	20.25	19.77	24.68	30.00

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

Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_3TX	-
2.4-2.4835GHz	4.30
802.11g_(6Mbps)_3TX	-
2.4-2.4835GHz	1.95
802.11n HT20_Nss1,(MCS0)_3TX	-
2.4-2.4835GHz	0.84
802.11n HT40_Nss1,(MCS0)_3TX	-
2.4-2.4835GHz	-2.91

RBW=3kHz.

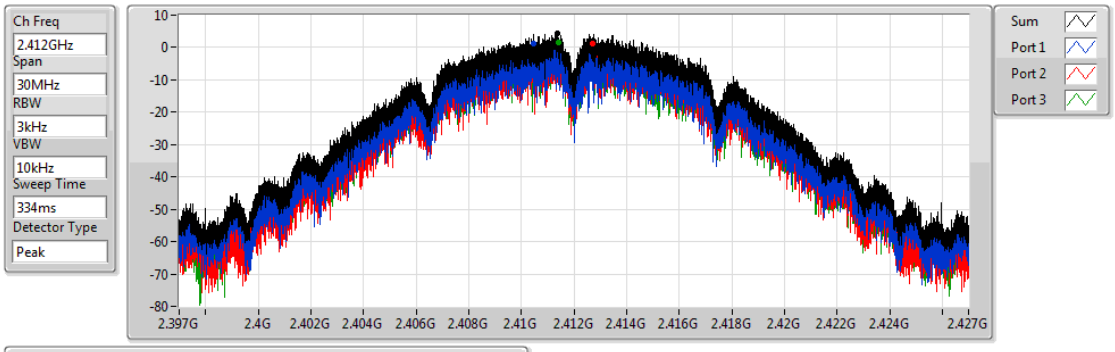
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.07	1.26	1.32	1.64	4.30	6.93
2437MHz	Pass	7.07	1.15	0.88	0.94	3.84	6.93
2462MHz	Pass	7.07	1.42	0.55	1.57	3.92	6.93
802.11g_(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.07	-2.66	-2.62	-2.42	-0.83	6.93
2437MHz	Pass	7.07	0.03	-0.29	-1.11	1.95	6.93
2462MHz	Pass	7.07	-2.08	-4.20	-3.60	-0.42	6.93
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.07	-2.36	-4.63	-3.84	-0.60	6.93
2437MHz	Pass	7.07	-0.45	-2.02	-2.04	0.84	6.93
2462MHz	Pass	7.07	-5.09	-4.35	-4.46	-2.04	6.93
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	7.07	-7.33	-7.50	-8.18	-4.97	6.93
2437MHz	Pass	7.07	-5.36	-6.29	-6.10	-2.91	6.93
2452MHz	Pass	7.07	-6.35	-7.30	-8.39	-4.84	6.93

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)_3TX **PSD**

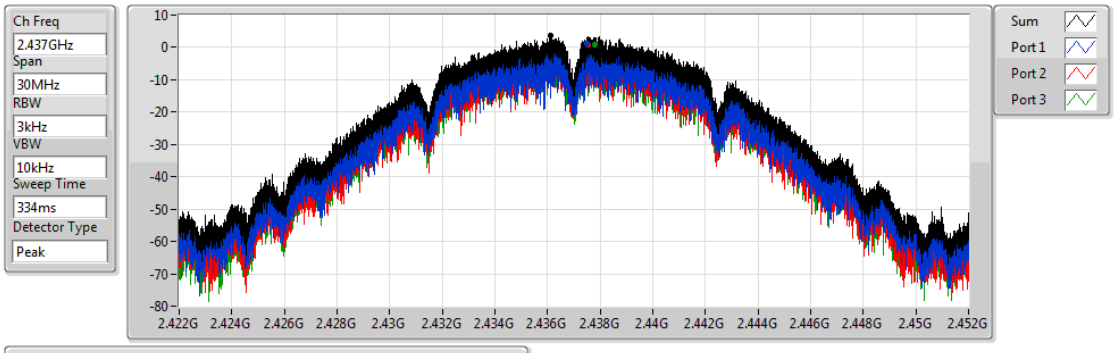
2412MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.30	4.30	1.26	1.32	1.64

802.11b_(1Mbps)_3TX **PSD**

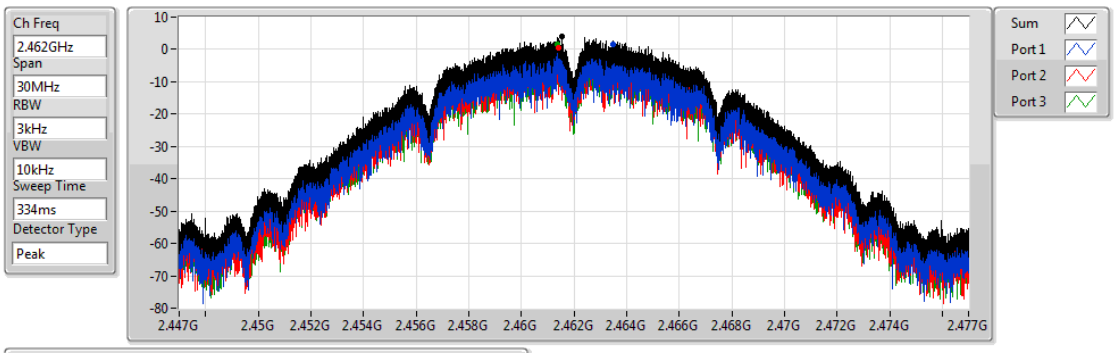
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.84	3.84	1.15	0.88	0.94

802.11b_(1Mbps)_3TX **PSD**

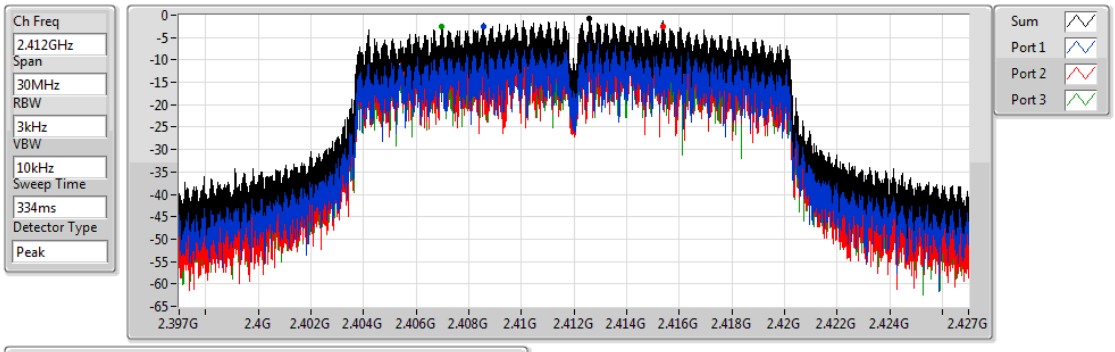
2462MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.92	3.92	1.42	0.55	1.57

802.11g_(6Mbps)_3TX **PSD**

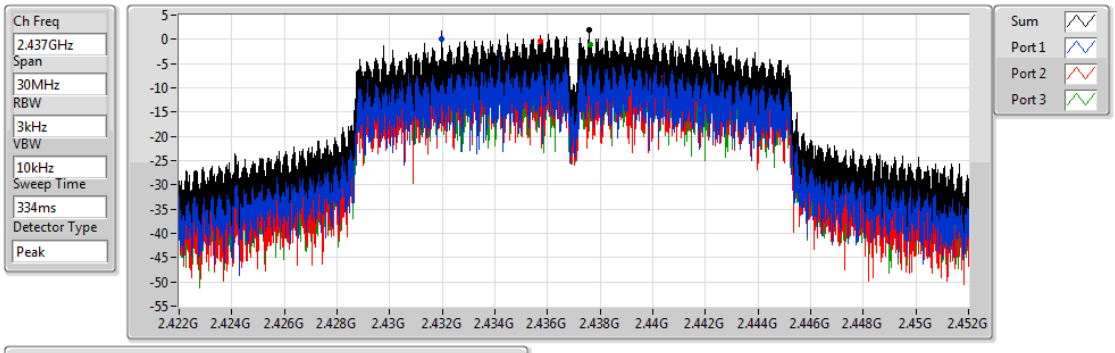
2412MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.83	-0.83	-2.66	-2.62	-2.42

802.11g_(6Mbps)_3TX **PSD**

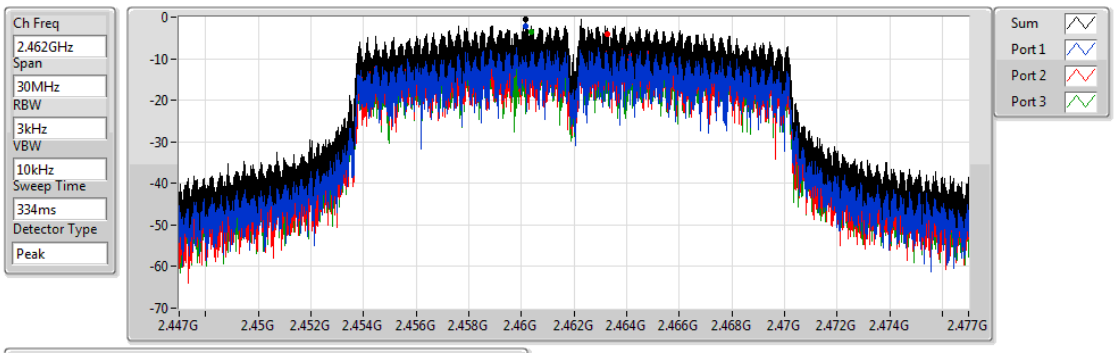
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.95	1.95	0.03	-0.29	-1.11

802.11g_(6Mbps)_3TX **PSD**

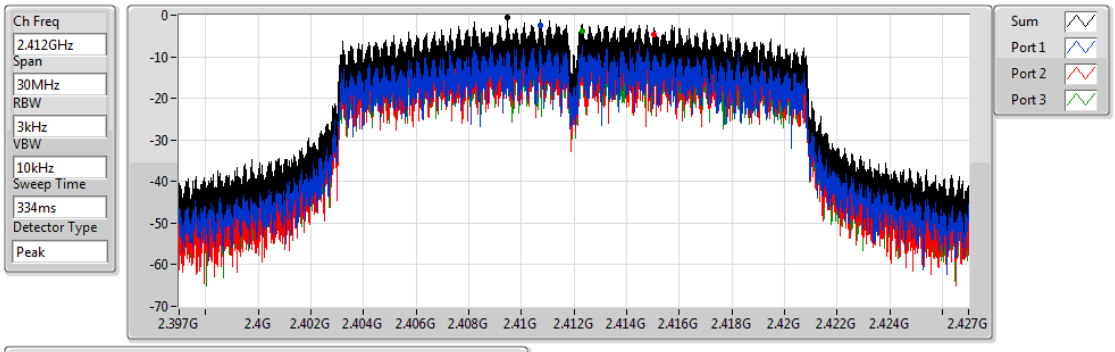
2462MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.42	-0.42	-2.08	-4.20	-3.60

802.11n HT20_Nss1,(MCS0)_3TX **PSD**

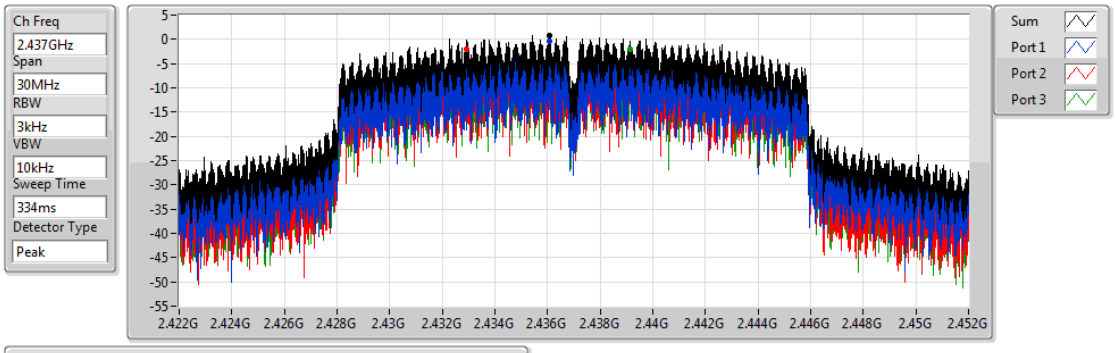
2412MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.60	-0.60	-2.36	-4.63	-3.84

802.11n HT20_Nss1,(MCS0)_3TX **PSD**

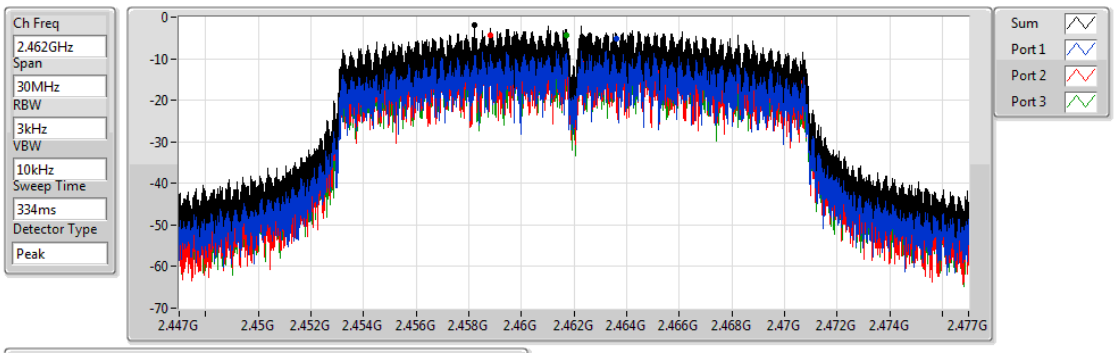
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.84	0.84	-0.45	-2.02	-2.04

802.11n HT20_Nss1,(MCS0)_3TX **PSD**

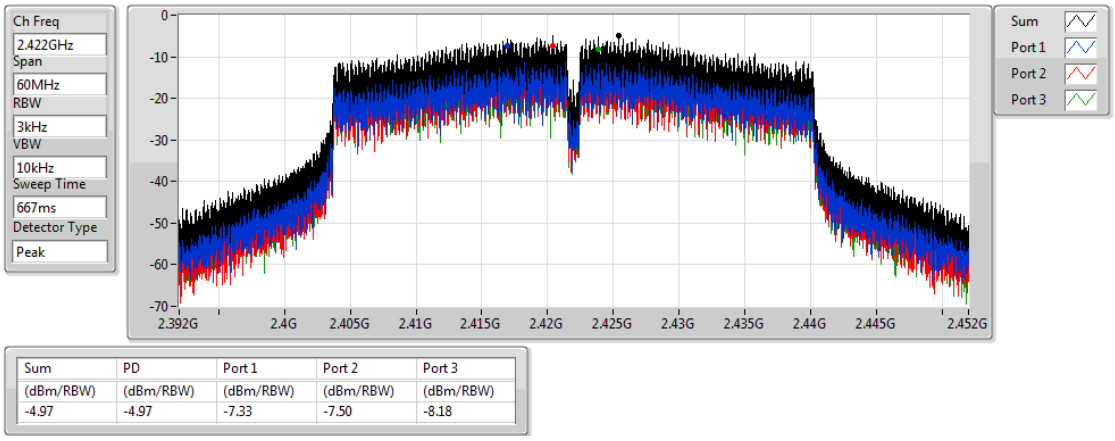
2462MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.04	-2.04	-5.09	-4.35	-4.46

802.11n HT40_Nss1,(MCS0)_3TX PSD

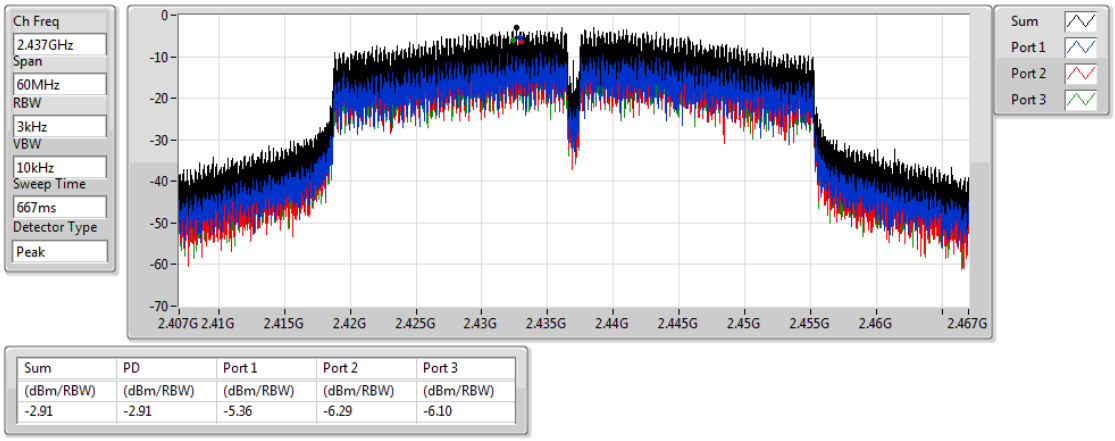
2422MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.97	-4.97	-7.33	-7.50	-8.18

802.11n HT40_Nss1,(MCS0)_3TX PSD

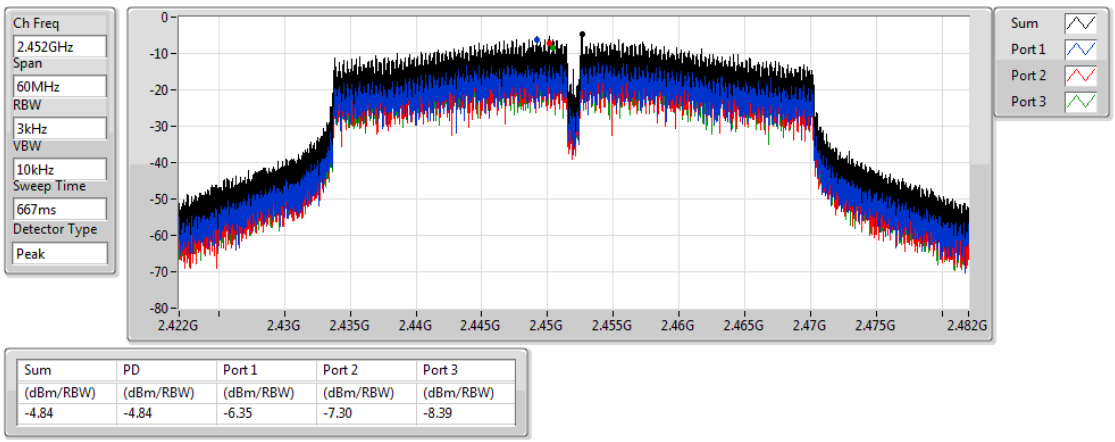
2437MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.91	-2.91	-5.36	-6.29	-6.10

802.11n HT40_Nss1,(MCS0)_3TX PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.84	-4.84	-6.35	-7.30	-8.39

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	2.437909G	16.42	-13.58	2.300585G	-50.89	2.39904G	-31.84	2.50014G	-49.45	7.235136G	-29.50	1
802.11g_Nss1,(6Mbps)_3TX	Pass	2.435738G	13.98	-16.02	2.300585G	-52.79	2.39992G	-17.44	2.50014G	-48.86	7.235136G	-37.09	1
802.11n HT20_Nss1,(MCS0)_3TX	Pass	2.434402G	13.82	-16.18	2.300585G	-53.11	2.39984G	-21.30	2.50014G	-48.60	7.235136G	-37.36	1
802.11n HT40_Nss1,(MCS0)_3TX	Pass	2.434402G	10.23	-19.77	2.300535G	-51.81	2.39952G	-26.23	2.48414G	-38.46	2.599959G	-48.28	1

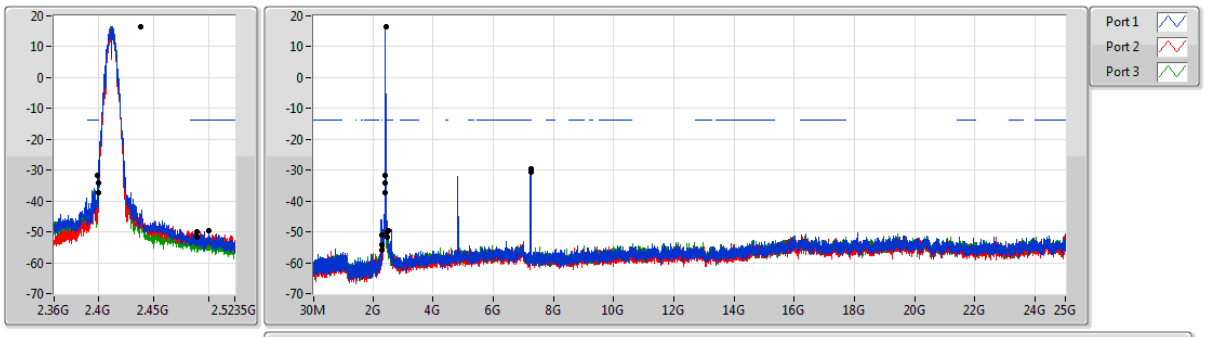
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.437909G	16.42	-13.58	2.300585G	-50.89	2.39904G	-31.84	2.50014G	-49.45	7.235136G	-29.50	1
2412MHz	Pass	2.437909G	16.42	-13.58	2.30874G	-55.91	2.39992G	-37.41	2.48966G	-49.86	7.235136G	-30.65	2
2412MHz	Pass	2.437909G	16.42	-13.58	2.309905G	-54.05	2.39992G	-34.01	2.48958G	-51.80	7.235136G	-30.75	3
2437MHz	Pass	2.437909G	16.42	-13.58	2.300585G	-53.25	2.39128G	-44.28	2.48406G	-46.78	2.599358G	-48.85	1
2437MHz	Pass	2.437909G	16.42	-13.58	2.307575G	-56.99	2.39136G	-46.08	2.48454G	-48.85	24.2948G	-51.93	2
2437MHz	Pass	2.437909G	16.42	-13.58	2.307575G	-56.59	2.39128G	-46.04	2.48406G	-50.42	16.236975G	-50.82	3
2462MHz	Pass	2.437909G	16.42	-13.58	2.30874G	-54.83	2.39248G	-47.47	2.48446G	-44.85	2.599358G	-48.96	1
2462MHz	Pass	2.437909G	16.42	-13.58	2.305245G	-56.98	2.39736G	-48.26	2.48646G	-43.73	2.534738G	-50.57	2
2462MHz	Pass	2.437909G	16.42	-13.58	2.30175G	-54.19	2.39336G	-47.60	2.48662G	-46.06	24.665662G	-51.10	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	13.98	-16.02	2.300585G	-52.79	2.39992G	-17.44	2.50014G	-48.86	7.235136G	-37.09	1
2412MHz	Pass	2.435738G	13.98	-16.02	2.30641G	-54.47	2.39984G	-24.63	2.50158G	-49.61	7.232327G	-39.84	2
2412MHz	Pass	2.435738G	13.98	-16.02	2.30874G	-52.91	2.39888G	-20.15	2.50118G	-50.80	7.229517G	-38.27	3
2437MHz	Pass	2.435738G	13.98	-16.02	2.305245G	-44.52	2.39952G	-38.20	2.4851G	-39.22	2.545977G	-35.49	1
2437MHz	Pass	2.435738G	13.98	-16.02	2.309905G	-55.58	2.39872G	-39.79	2.4859G	-43.38	2.5235G	-49.81	2
2437MHz	Pass	2.435738G	13.98	-16.02	2.300585G	-51.70	2.39952G	-38.83	2.48758G	-40.43	2.562834G	-40.93	3
2462MHz	Pass	2.435738G	13.98	-16.02	2.300585G	-53.19	2.39152G	-48.44	2.48374G	-36.03	2.599358G	-49.70	1
2462MHz	Pass	2.435738G	13.98	-16.02	2.309905G	-56.45	2.39568G	-48.14	2.4843G	-37.44	2.531929G	-50.49	2
2462MHz	Pass	2.435738G	13.98	-16.02	2.30641G	-55.47	2.39032G	-47.80	2.48446G	-37.07	16.251022G	-50.74	3
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.434402G	13.82	-16.18	2.300585G	-53.11	2.39984G	-21.30	2.50014G	-48.60	7.235136G	-37.36	1
2412MHz	Pass	2.434402G	13.82	-16.18	850.16M	-56.02	2.39928G	-22.93	2.48622G	-49.17	7.235136G	-37.67	2
2412MHz	Pass	2.434402G	13.82	-16.18	2.309905G	-53.72	2.39976G	-21.71	2.49318G	-50.08	7.237946G	-36.99	3
2437MHz	Pass	2.434402G	13.82	-16.18	2.300585G	-48.10	2.39728G	-37.99	2.51454G	-33.30	2.551596G	-45.42	1
2437MHz	Pass	2.434402G	13.82	-16.18	2.305245G	-54.58	2.398G	-40.38	2.4867G	-41.92	2.52631G	-47.96	2
2437MHz	Pass	2.434402G	13.82	-16.18	2.30641G	-51.94	2.39976G	-38.92	2.51382G	-35.65	2.529119G	-48.90	3
2462MHz	Pass	2.434402G	13.82	-16.18	2.300585G	-52.93	2.39304G	-49.27	2.4839G	-36.90	2.599358G	-49.87	1
2462MHz	Pass	2.434402G	13.82	-16.18	2.300585G	-54.87	2.3976G	-48.31	2.4839G	-40.38	2.531929G	-51.64	2
2462MHz	Pass	2.434402G	13.82	-16.18	2.30874G	-54.23	2.39592G	-48.01	2.48622G	-40.87	17.697947G	-51.75	3
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.434402G	10.23	-19.77	2.300535G	-52.75	2.39936G	-35.87	2.4843G	-48.19	2.599959G	-48.53	1
2422MHz	Pass	2.434402G	10.23	-19.77	2.309695G	-55.96	2.39744G	-38.76	2.48558G	-48.54	17.293062G	-51.64	2
2422MHz	Pass	2.434402G	10.23	-19.77	2.302825G	-54.68	2.39952G	-35.71	2.48958G	-50.56	16.28342G	-50.38	3
2437MHz	Pass	2.434402G	10.23	-19.77	2.300535G	-51.81	2.39952G	-26.23	2.48414G	-38.46	2.599959G	-48.28	1
2437MHz	Pass	2.434402G	10.23	-19.77	2.307405G	-55.02	2.39904G	-31.58	2.48382G	-41.49	16.258179G	-50.12	2
2437MHz	Pass	2.434402G	10.23	-19.77	2.30626G	-54.78	2.39952G	-26.68	2.4843G	-40.91	24.416651G	-50.62	3
2452MHz	Pass	2.434402G	10.23	-19.77	2.300535G	-51.66	2.3976G	-47.09	2.4859G	-39.65	2.599959G	-49.40	1
2452MHz	Pass	2.434402G	10.23	-19.77	2.30168G	-56.59	2.39504G	-47.10	2.48382G	-42.24	24.669062G	-51.77	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
2452MHz	Pass	2.434402G	10.23	-19.77	2.309695G	-56.66	2.39104G	-47.33	2.48382G	-41.74	24.767221G	-50.95	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

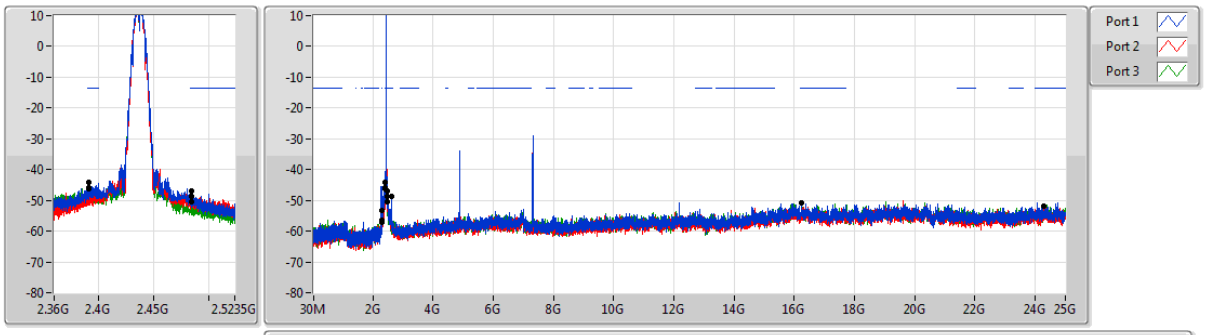
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437909G	16.42	-13.58	2.300585G	-50.89	2.39904G	-31.84	2.50014G	-49.45	7.235136G	-29.50	1
2.437909G	16.42	-13.58	2.30874G	-55.91	2.39992G	-37.41	2.48966G	-49.86	7.235136G	-30.65	2
2.437909G	16.42	-13.58	2.309905G	-54.05	2.39992G	-34.01	2.48958G	-51.80	7.235136G	-30.75	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

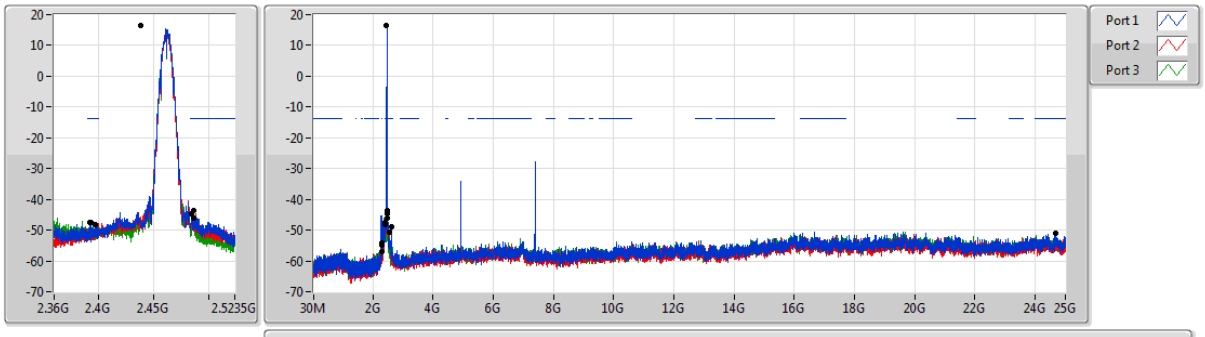
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437909G	16.42	-13.58	2.300585G	-53.25	2.39128G	-44.28	2.48406G	-46.78	2.599358G	-48.85	1
2.437909G	16.42	-13.58	2.307575G	-56.99	2.39136G	-46.08	2.48454G	-48.85	24.2948G	-51.93	2
2.437909G	16.42	-13.58	2.307575G	-56.59	2.39128G	-46.04	2.48406G	-50.42	16.236975G	-50.82	3

802.11b_Nss1,(1Mbps)_3TX **CSE NdB**

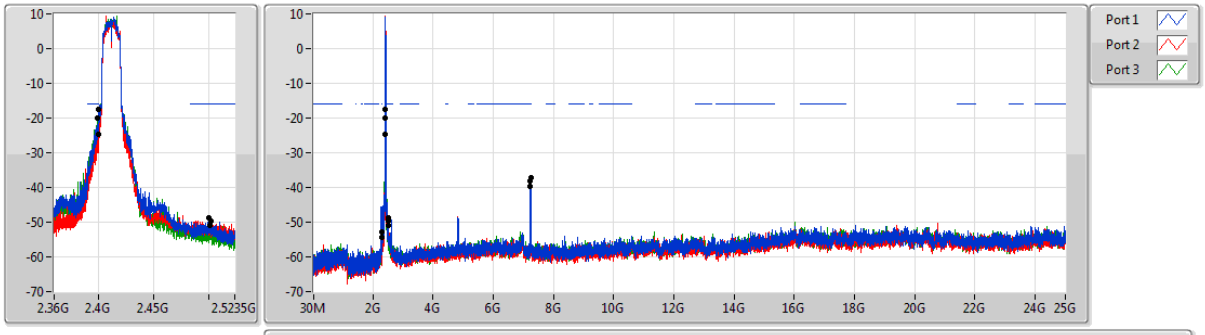
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437909G	16.42	-13.58	2.30874G	-54.83	2.39248G	-47.47	2.48446G	-44.85	2.599358G	-48.96	1
2.437909G	16.42	-13.58	2.305245G	-56.98	2.39736G	-48.26	2.48646G	-43.73	2.534738G	-50.57	2
2.437909G	16.42	-13.58	2.30175G	-54.19	2.39336G	-47.60	2.48662G	-46.06	24.665662G	-51.10	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

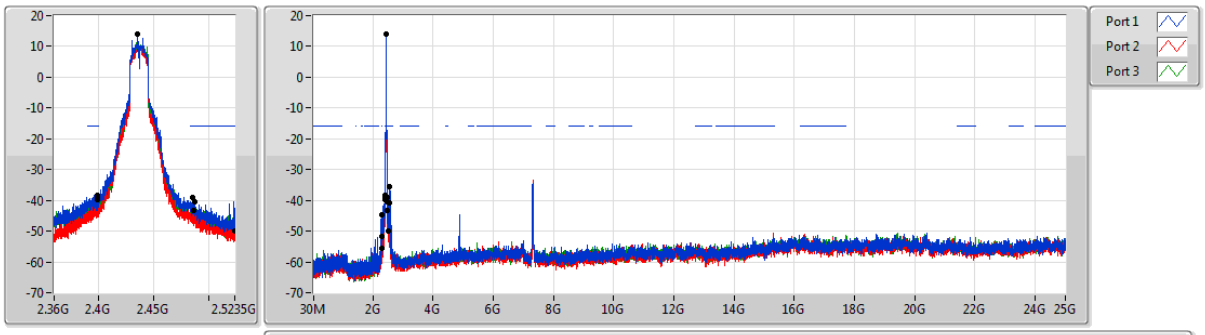
2412MHz



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	13.98	-16.02	2.300585G	-52.79	2.39992G	-17.44	2.50014G	-48.86	7.235136G	-37.09	1
2.435738G	13.98	-16.02	2.30641G	-54.47	2.39984G	-24.63	2.50158G	-49.61	7.232327G	-39.84	2
2.435738G	13.98	-16.02	2.30874G	-52.91	2.39888G	-20.15	2.50118G	-50.80	7.229517G	-38.27	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

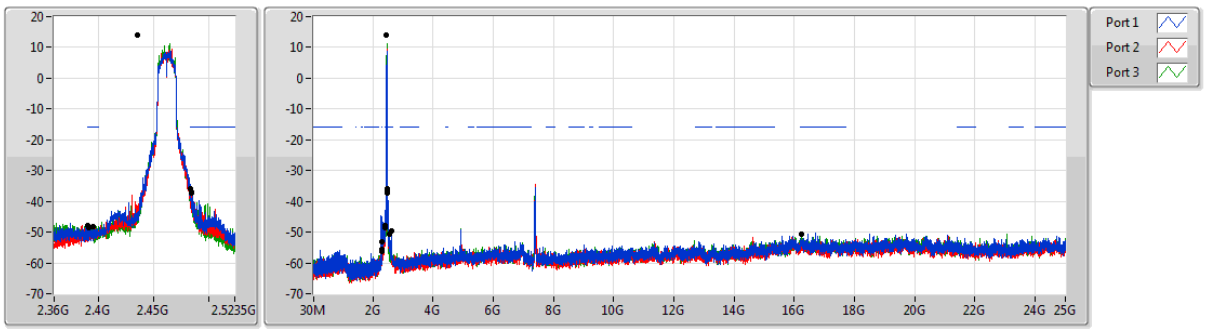
2437MHz



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	13.98	-16.02	2.305245G	-44.52	2.39952G	-38.20	2.4851G	-39.22	2.545977G	-35.49	1
2.435738G	13.98	-16.02	2.309905G	-55.58	2.39872G	-39.79	2.4859G	-43.38	2.5235G	-49.81	2
2.435738G	13.98	-16.02	2.300585G	-51.70	2.39952G	-38.83	2.48758G	-40.43	2.562834G	-40.93	3

802.11g_Nss1,(6Mbps)_3TX **CSE NdB**

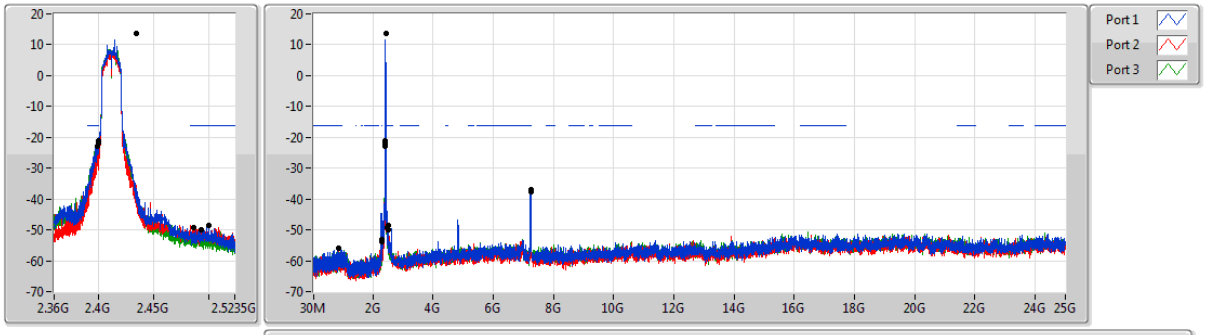
2462MHz



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	13.98	-16.02	2.300585G	-53.19	2.39152G	-48.44	2.48374G	-36.03	2.599358G	-49.70	1
2.435738G	13.98	-16.02	2.309905G	-56.45	2.39568G	-48.14	2.4843G	-37.44	2.531929G	-50.49	2
2.435738G	13.98	-16.02	2.30641G	-55.47	2.39032G	-47.80	2.48446G	-37.07	16.251022G	-50.74	3

802.11n HT20_Nss1,(MCS0)_3TX **CSE NdB**

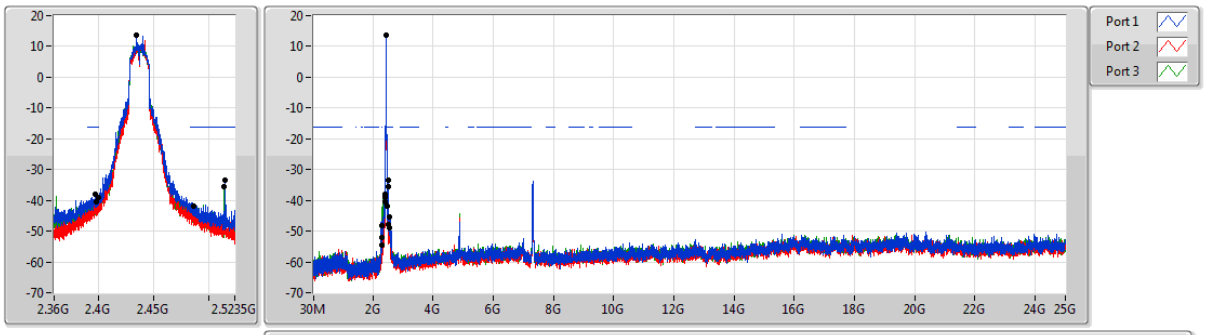
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	13.82	-16.18	2.300585G	-53.11	2.39984G	-21.30	2.50014G	-48.60	7.235136G	-37.36	1
2.434402G	13.82	-16.18	850.16M	-56.02	2.39928G	-22.93	2.48622G	-49.17	7.235136G	-37.67	2
2.434402G	13.82	-16.18	2.309905G	-53.72	2.39976G	-21.71	2.49318G	-50.08	7.237946G	-36.99	3

802.11n HT20_Nss1,(MCS0)_3TX **CSE NdB**

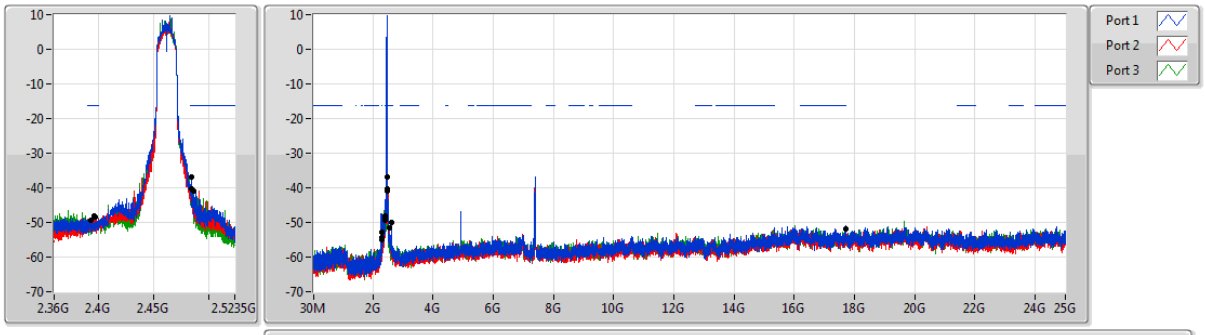
2437MHz



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	13.82	-16.18	2.300585G	-48.10	2.39728G	-37.99	2.51454G	-33.30	2.551596G	-45.42	1
2.434402G	13.82	-16.18	2.305245G	-54.58	2.398G	-40.38	2.4867G	-41.92	2.52631G	-47.96	2
2.434402G	13.82	-16.18	2.30641G	-51.94	2.39976G	-38.92	2.51382G	-35.65	2.529119G	-48.90	3

802.11n HT20_Nss1,(MCS0)_3TX **CSE NdB**

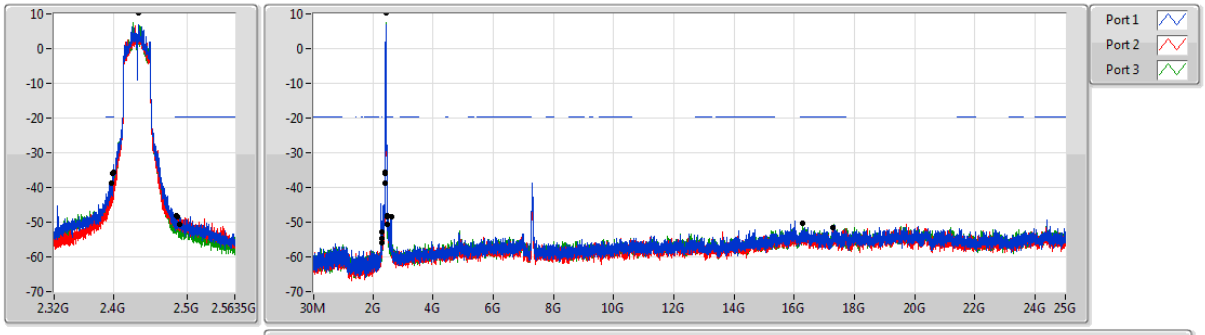
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	13.82	-16.18	2.300585G	-52.93	2.39304G	-49.27	2.4839G	-36.90	2.599358G	-49.87	1
2.434402G	13.82	-16.18	2.300585G	-54.87	2.3976G	-48.31	2.4839G	-40.38	2.531929G	-51.64	2
2.434402G	13.82	-16.18	2.30874G	-54.23	2.39592G	-48.01	2.48622G	-40.87	17.697947G	-51.75	3

802.11n HT40_Nss1,(MCS0)_3TX **CSE NdB**

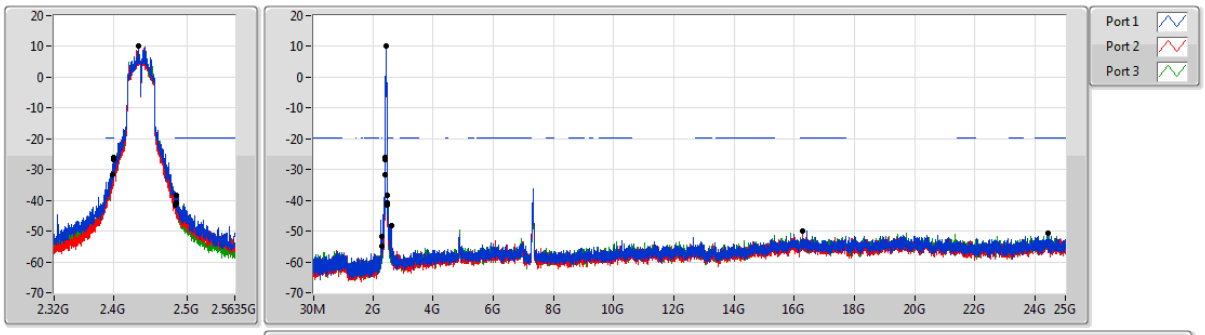
2422MHz



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	10.23	-19.77	2.300535G	-52.75	2.39936G	-35.87	2.4843G	-48.19	2.599959G	-48.53	1
2.434402G	10.23	-19.77	2.309695G	-55.96	2.39744G	-38.76	2.48558G	-48.54	17.293062G	-51.64	2
2.434402G	10.23	-19.77	2.302825G	-54.68	2.39952G	-35.71	2.48958G	-50.56	16.28342G	-50.38	3

802.11n HT40_Nss1,(MCS0)_3TX **CSE NdB**

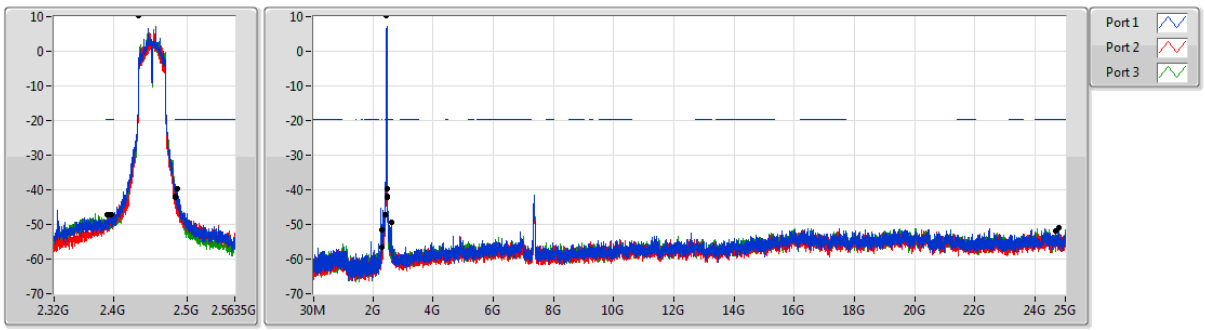
2437MHz



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	10.23	-19.77	2.300535G	-51.81	2.39952G	-26.23	2.48414G	-38.46	2.599959G	-48.28	1
2.434402G	10.23	-19.77	2.307405G	-55.02	2.39904G	-31.58	2.48382G	-41.49	16.258179G	-50.12	2
2.434402G	10.23	-19.77	2.30626G	-54.78	2.39952G	-26.68	2.4843G	-40.91	24.416651G	-50.62	3

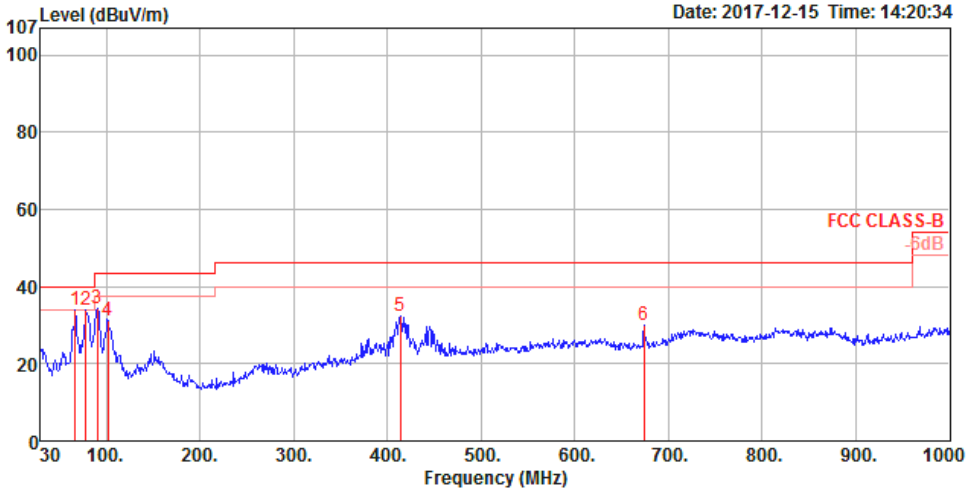
802.11n HT40_Nss1,(MCS0)_3TX **CSE NdB**

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	10.23	-19.77	2.300535G	-51.66	2.3976G	-47.09	2.4859G	-39.65	2.599959G	-49.40	1
2.434402G	10.23	-19.77	2.30168G	-56.59	2.39504G	-47.10	2.48382G	-42.24	24.669062G	-51.77	2
2.434402G	10.23	-19.77	2.309695G	-56.66	2.39104G	-47.33	2.48382G	-41.74	24.767221G	-50.95	3

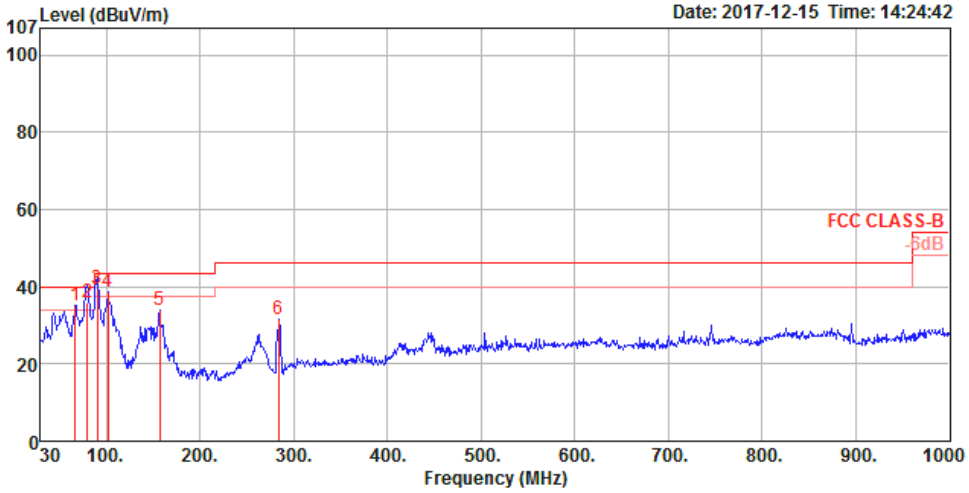
RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Horizontal
Operating Function	Normal Link		



	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	66.86	33.87	40.00	-6.13	52.22	1.02	12.29	31.66	200	62	Peak	HORIZONTAL
2	78.50	33.97	40.00	-6.03	52.01	1.10	12.55	31.69	200	0	Peak	HORIZONTAL
3	90.14	34.29	43.50	-9.21	50.00	1.16	14.84	31.71	150	96	Peak	HORIZONTAL
4	101.78	31.24	43.50	-12.26	44.61	1.25	17.11	31.73	200	200	Peak	HORIZONTAL
5	414.12	32.33	46.00	-13.67	39.85	2.50	22.05	32.07	125	0	Peak	HORIZONTAL
6	674.08	29.83	46.00	-16.17	33.73	3.22	25.29	32.41	300	224	Peak	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	2	**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	66.86	35.25	40.00	-4.75	53.60	1.02	12.29	31.66	100	279	Peak	VERTICAL
2	79.47	35.92	40.00	-4.08	53.82	1.11	12.68	31.69	100	103	QP	VERTICAL
3	90.14	39.40	43.50	-4.10	55.11	1.16	14.84	31.71	115	150	QP	VERTICAL
4	101.78	38.75	43.50	-4.75	52.12	1.25	17.11	31.73	100	0	Peak	VERTICAL
5	157.07	33.77	43.50	-9.73	47.90	1.53	16.12	31.78	100	135	Peak	VERTICAL
6	284.14	31.69	46.00	-14.31	42.72	2.07	18.80	31.90	100	38	Peak	VERTICAL

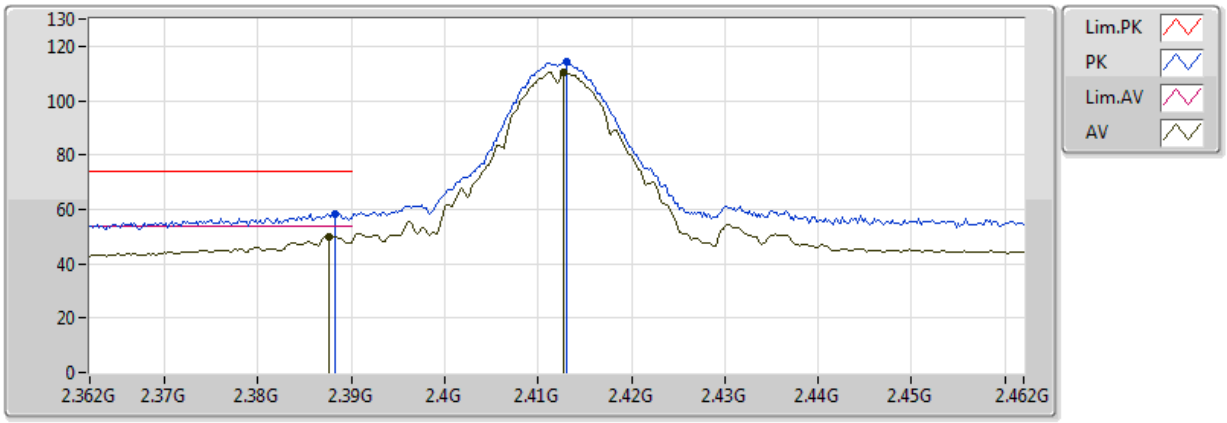
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	AV	2.3876G	50.15	54.00	-3.85	29.93	3	Vertical	282	2.97	-
802.11g_Nss1,(6Mbps)_3TX	Pass	AV	2.4836G	52.96	54.00	-1.04	33.19	3	Vertical	158	2.90	-
802.11n HT20_Nss1,(MCS0)_3TX	Pass	AV	2.39G	52.92	54.00	-1.08	33.16	3	Horizontal	172	2.56	-
802.11n HT40_Nss1,(MCS0)_3TX	Pass	AV	2.389998G	52.99	54.00	-1.01	33.16	3	Vertical	126	1.01	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX



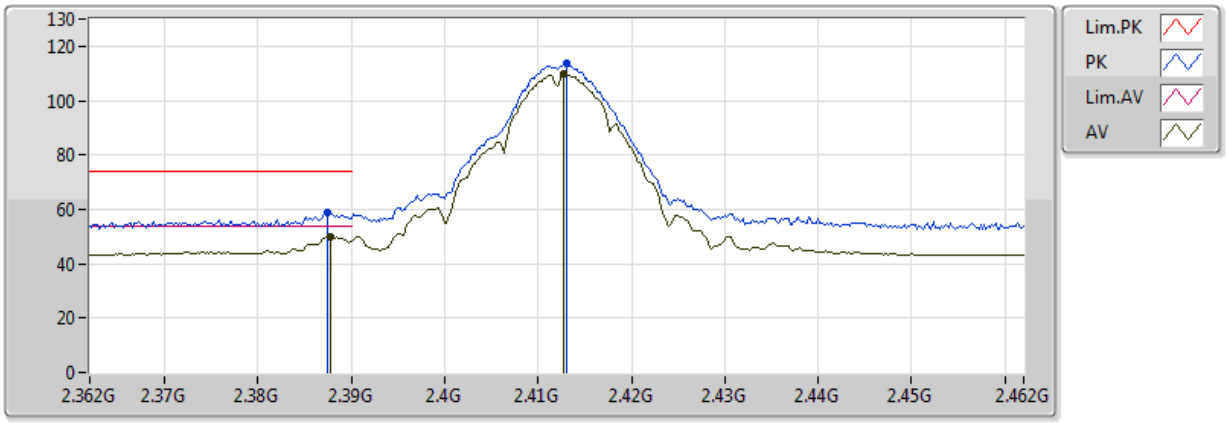
20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3876G	50.15	54.00	-3.85	29.93	3	Vertical	282	2.97
AV	2.4128G	110.61	Inf	-Inf	30.03	3	Vertical	282	2.97
PK	2.3882G	58.51	74.00	-15.49	29.93	3	Vertical	282	2.97
PK	2.413G	114.35	Inf	-Inf	30.03	3	Vertical	282	2.97

Mode

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX



20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3878G	49.93	54.00	-4.07	29.93	3	Horizontal	188	2.99
AV	2.4128G	109.69	Inf	-Inf	30.03	3	Horizontal	188	2.99
PK	2.3874G	58.85	74.00	-15.15	29.93	3	Horizontal	188	2.99
PK	2.413G	113.51	Inf	-Inf	30.03	3	Horizontal	188	2.99

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.824G	35.75	54.00	-18.25	4.06	3	Vertical	346	1.02
PK	4.82416G	44.69	74.00	-29.31	4.06	3	Vertical	346	1.02

802.11b_Nss1,(1Mbps)_3TX

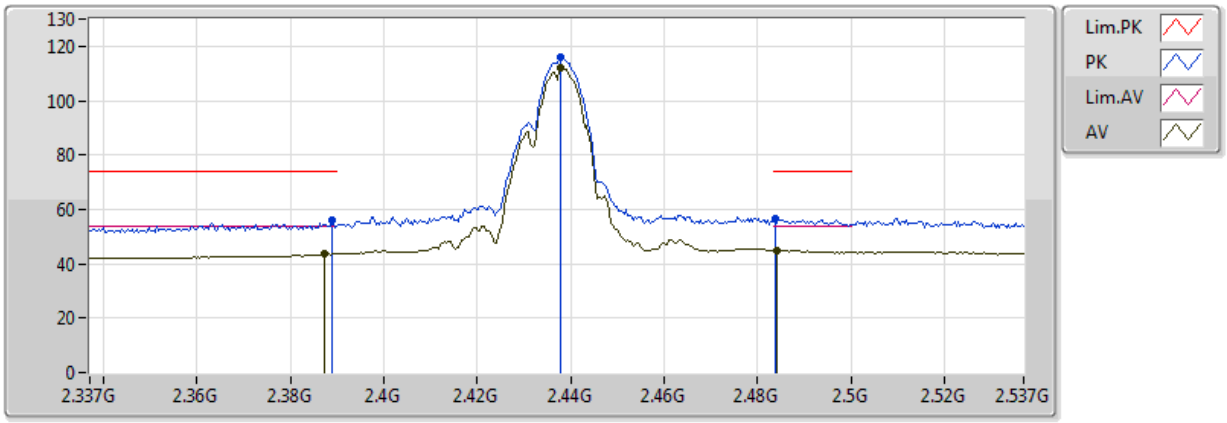
2412MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.827G	40.41	54.00	-13.59	4.07	3	Horizontal	72	1.01
PK	4.827G	47.23	74.00	-26.77	4.07	3	Horizontal	72	1.01

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

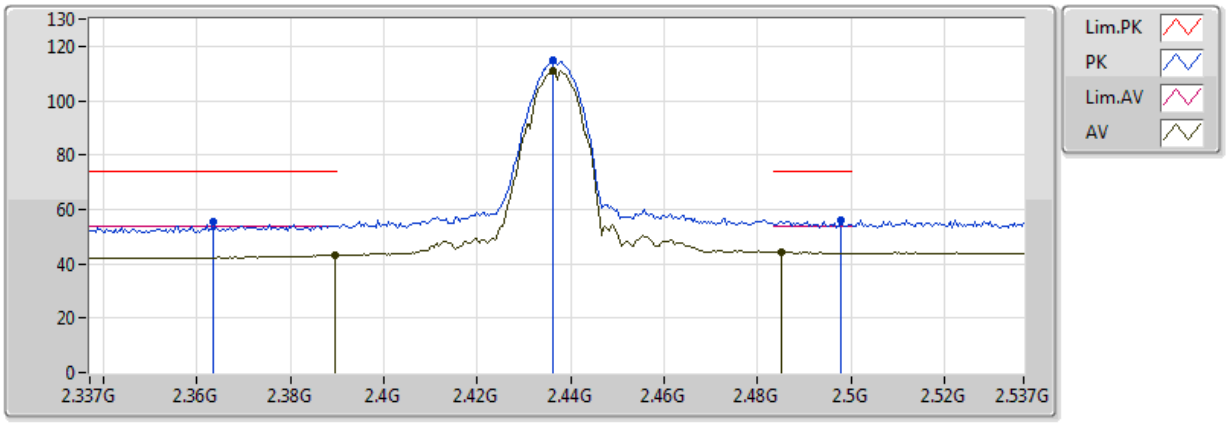


20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3874G	43.53	54.00	-10.47	29.93	3	Vertical	153	1.21
AV	2.4378G	112.04	Inf	-Inf	30.20	3	Vertical	153	1.21
AV	2.4842G	44.92	54.00	-9.08	30.51	3	Vertical	153	1.21
PK	2.389G	56.17	74.00	-17.83	29.93	3	Vertical	153	1.21
PK	2.4378G	115.98	Inf	-Inf	30.20	3	Vertical	153	1.21
PK	2.4838G	56.41	74.00	-17.59	30.51	3	Vertical	153	1.21

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX



20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	43.40	54.00	-10.60	29.93	3	Horizontal	218	2.75
AV	2.4362G	110.97	Inf	-Inf	30.19	3	Horizontal	218	2.75
AV	2.485G	44.32	54.00	-9.68	30.52	3	Horizontal	218	2.75
PK	2.3634G	55.30	74.00	-18.70	29.90	3	Horizontal	218	2.75
PK	2.4362G	114.65	Inf	-Inf	30.19	3	Horizontal	218	2.75
PK	2.4978G	56.11	74.00	-17.89	30.61	3	Horizontal	218	2.75

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87704G	34.30	54.00	-19.70	4.26	3	Vertical	347	1.18
PK	4.87706G	47.71	74.00	-26.29	4.26	3	Vertical	347	1.18

802.11b_Nss1,(1Mbps)_3TX

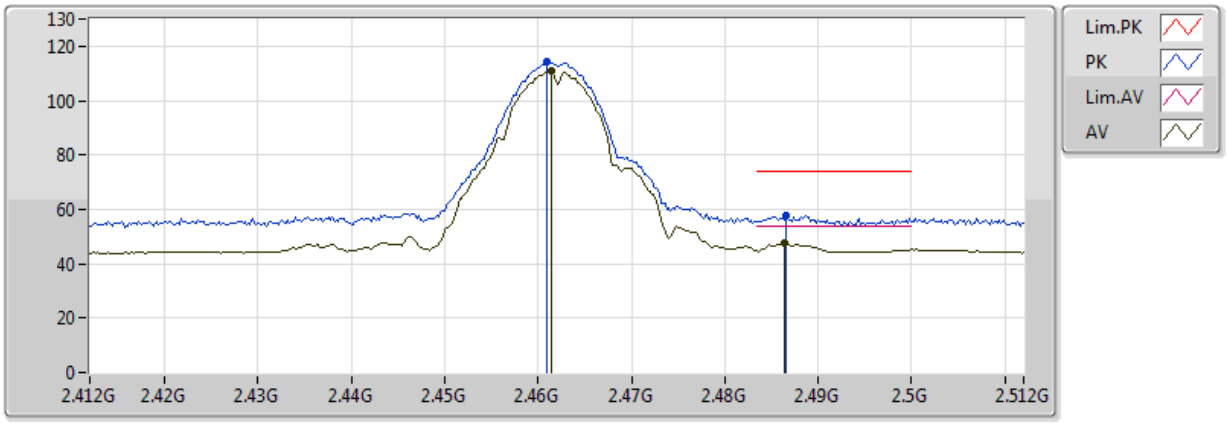
2437MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87704G	41.50	54.00	-12.50	4.26	3	Horizontal	69	1.02
PK	4.87406G	47.96	74.00	-26.04	4.25	3	Horizontal	69	1.02

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

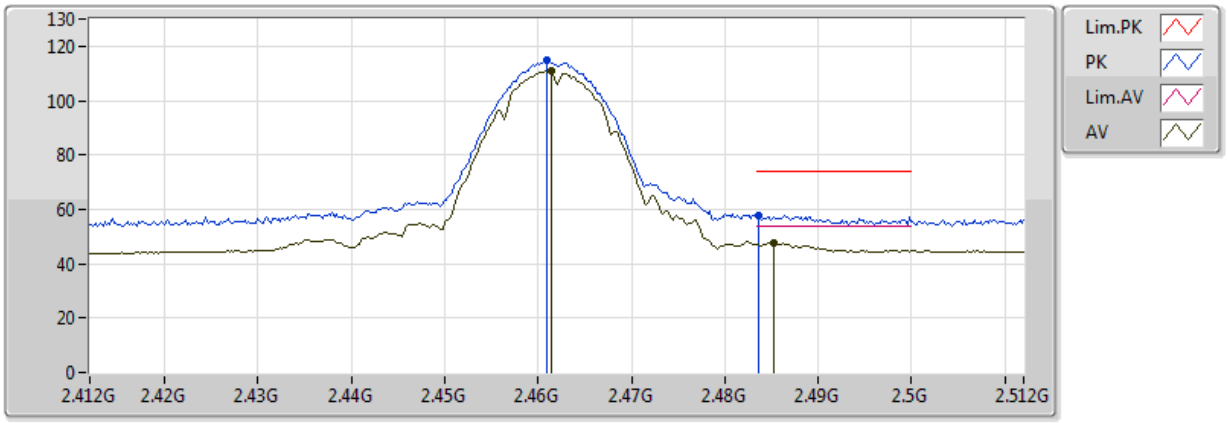


20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4614G	110.94	Inf	-Inf	30.36	3	Vertical	123	2.64
AV	2.4864G	47.70	54.00	-6.30	30.53	3	Vertical	123	2.64
PK	2.461G	114.39	Inf	-Inf	30.35	3	Vertical	123	2.64
PK	2.4866G	57.59	74.00	-16.41	30.53	3	Vertical	123	2.64

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX



20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4614G	111.17	Inf	-Inf	30.36	3	Horizontal	227	2.97
AV	2.4852G	47.68	54.00	-6.32	30.52	3	Horizontal	227	2.97
PK	2.461G	114.68	Inf	-Inf	30.35	3	Horizontal	227	2.97
PK	2.4836G	57.77	74.00	-16.23	30.51	3	Horizontal	227	2.97

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.924G	40.43	54.00	-13.57	4.44	3	Vertical	271	1.00
PK	4.9242G	47.05	74.00	-26.95	4.44	3	Vertical	271	1.00

802.11b_Nss1,(1Mbps)_3TX

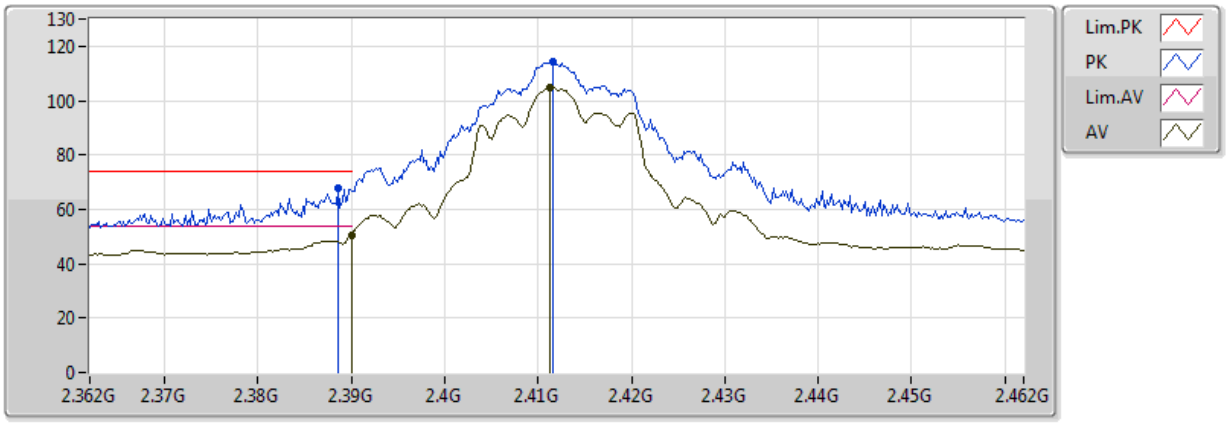
2462MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92408G	47.21	54.00	-6.79	4.44	3	Horizontal	82	1.04
PK	4.92402G	51.30	74.00	-22.70	4.44	3	Horizontal	82	1.04

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

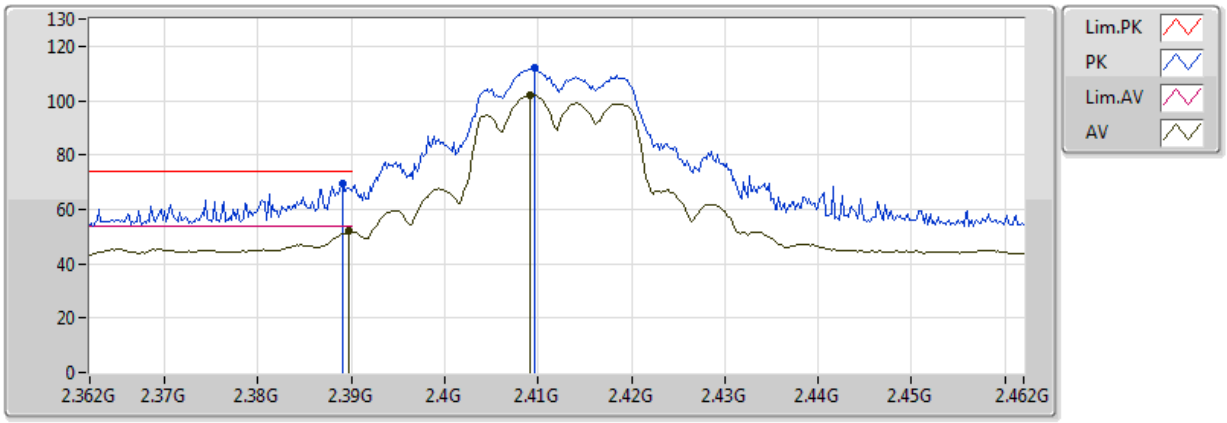


20171208
EUT Z_3TX
Setting 21.5
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	50.53	54.00	-3.47	29.93	3	Vertical	171	2.71
AV	2.4112G	104.93	Inf	-Inf	30.02	3	Vertical	171	2.71
PK	2.3886G	67.62	74.00	-6.38	29.93	3	Vertical	171	2.71
PK	2.4116G	114.07	Inf	-Inf	30.02	3	Vertical	171	2.71

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX



20171208
EUT Z_3TX
Setting 21.5
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3898G	51.90	54.00	-2.10	29.93	3	Horizontal	168	2.99
AV	2.4092G	102.08	Inf	-Inf	30.00	3	Horizontal	168	2.99
PK	2.389G	69.37	74.00	-4.63	29.93	3	Horizontal	168	2.99
PK	2.4096G	111.99	Inf	-Inf	30.01	3	Horizontal	168	2.99

802.11g_Nss1,(6Mbps)_3TX

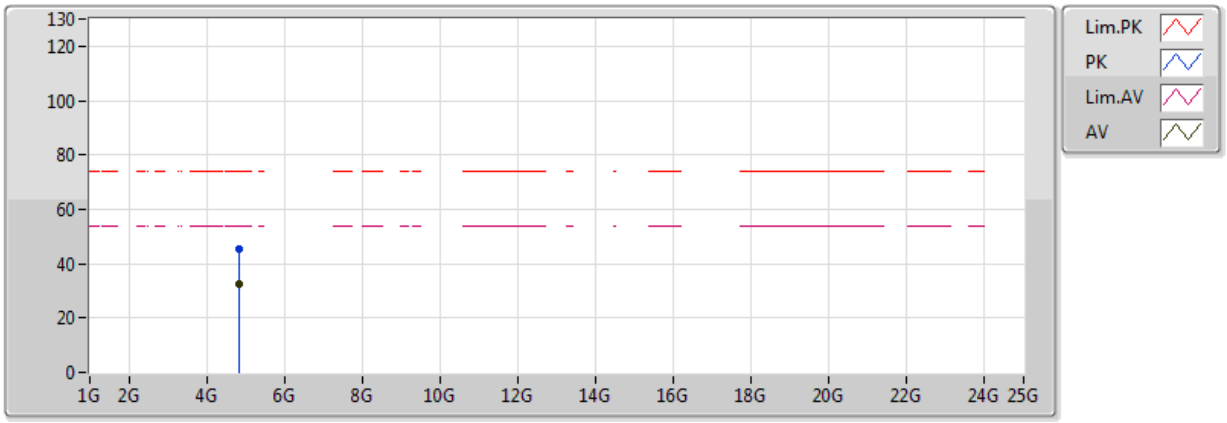
2412MHz_TX

20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82766G	31.19	54.00	-22.81	4.08	3	Vertical	45	1.19
PK	4.82934G	44.29	74.00	-29.71	4.08	3	Vertical	45	1.19

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

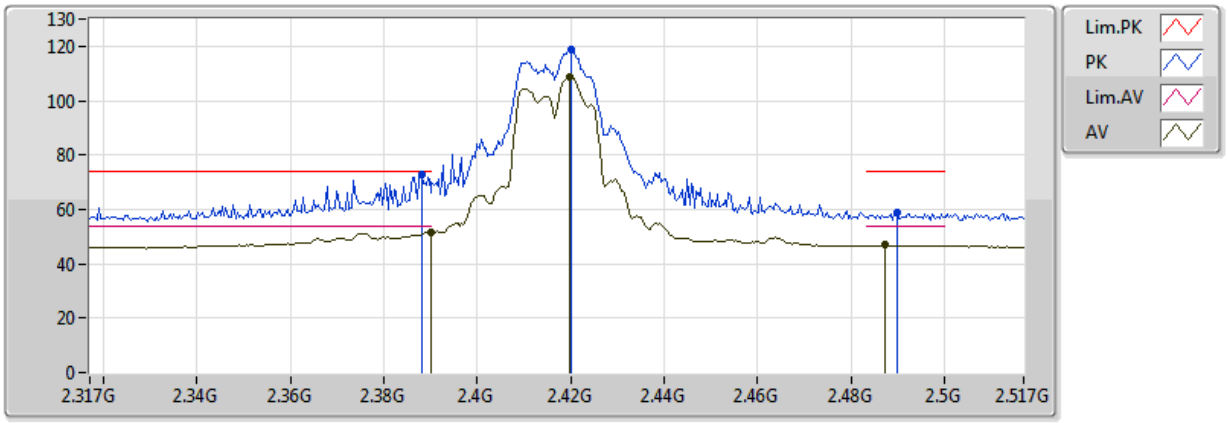


20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82838G	32.57	54.00	-21.43	4.08	3	Horizontal	72	1.96
PK	4.81902G	45.56	74.00	-28.44	4.04	3	Horizontal	72	1.96

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

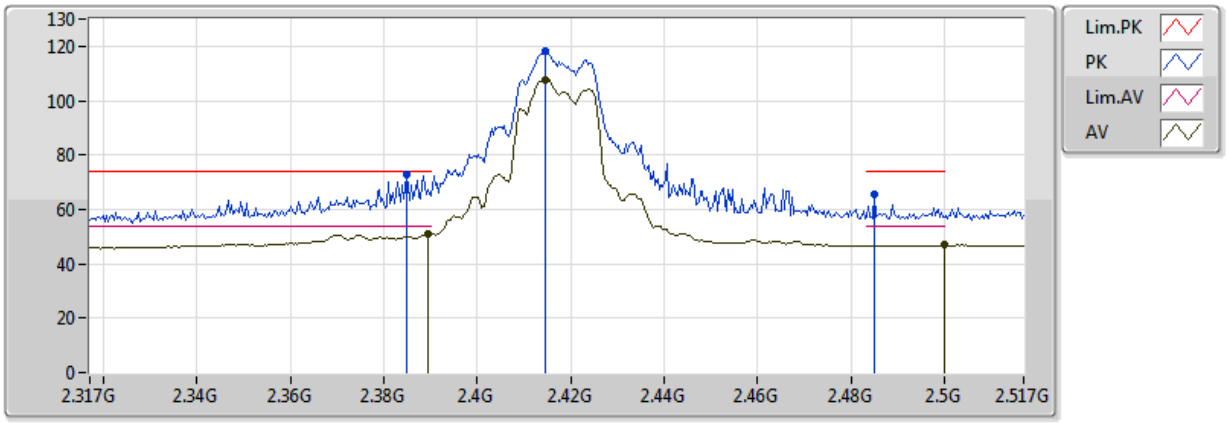


20171212
EUT Z_3TX
Setting 21
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	51.81	54.00	-2.19	33.16	3	Vertical	91	1.47
AV	2.4198G	108.67	Inf	-Inf	33.17	3	Vertical	91	1.47
AV	2.4874G	46.80	54.00	-7.20	33.19	3	Vertical	91	1.47
PK	2.3882G	72.95	74.00	-1.05	33.16	3	Vertical	91	1.47
PK	2.4202G	119.03	Inf	-Inf	33.17	3	Vertical	91	1.47
PK	2.4898G	58.76	74.00	-15.24	33.19	3	Vertical	91	1.47

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

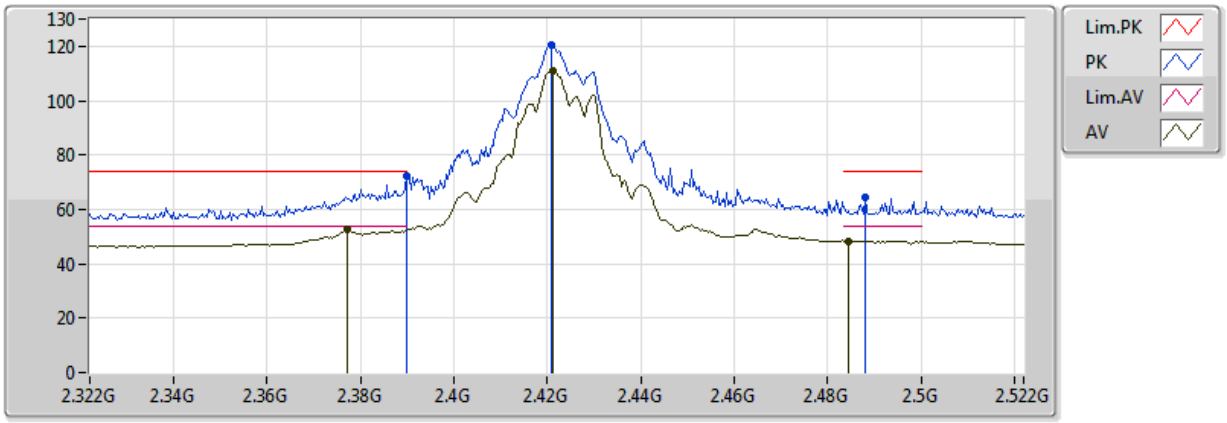


20171212
EUT Z_3TX
Setting 21
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	51.24	54.00	-2.76	33.16	3	Horizontal	193	2.99
AV	2.4146G	107.77	Inf	-Inf	33.17	3	Horizontal	193	2.99
AV	2.499998G	46.83	54.00	-7.17	33.19	3	Horizontal	193	2.99
PK	2.385G	72.65	74.00	-1.35	33.16	3	Horizontal	193	2.99
PK	2.4146G	118.02	Inf	-Inf	33.17	3	Horizontal	193	2.99
PK	2.485G	65.33	74.00	-8.67	33.19	3	Horizontal	193	2.99

802.11g_Nss1,(6Mbps)_3TX

2422MHz_TX

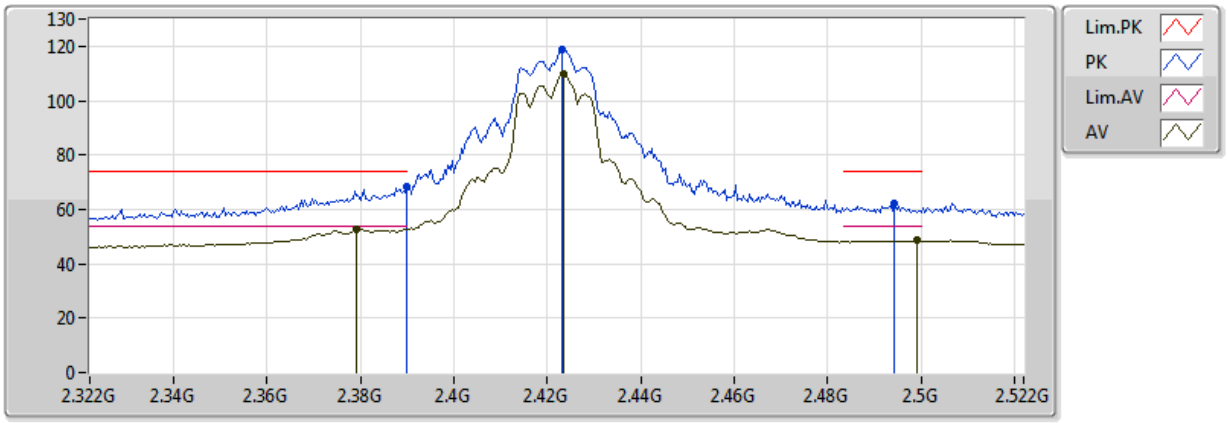


20171212
EUT Z_3TX
Setting 22.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3772G	52.79	54.00	-1.21	33.16	3	Vertical	166	1.77
AV	2.4212G	111.14	Inf	-Inf	33.17	3	Vertical	166	1.77
AV	2.4844G	48.44	54.00	-5.56	33.19	3	Vertical	166	1.77
PK	2.39G	72.20	74.00	-1.80	33.16	3	Vertical	166	1.77
PK	2.4208G	120.23	Inf	-Inf	33.17	3	Vertical	166	1.77
PK	2.488G	64.18	74.00	-9.82	33.19	3	Vertical	166	1.77

802.11g_Nss1,(6Mbps)_3TX

2422MHz_TX

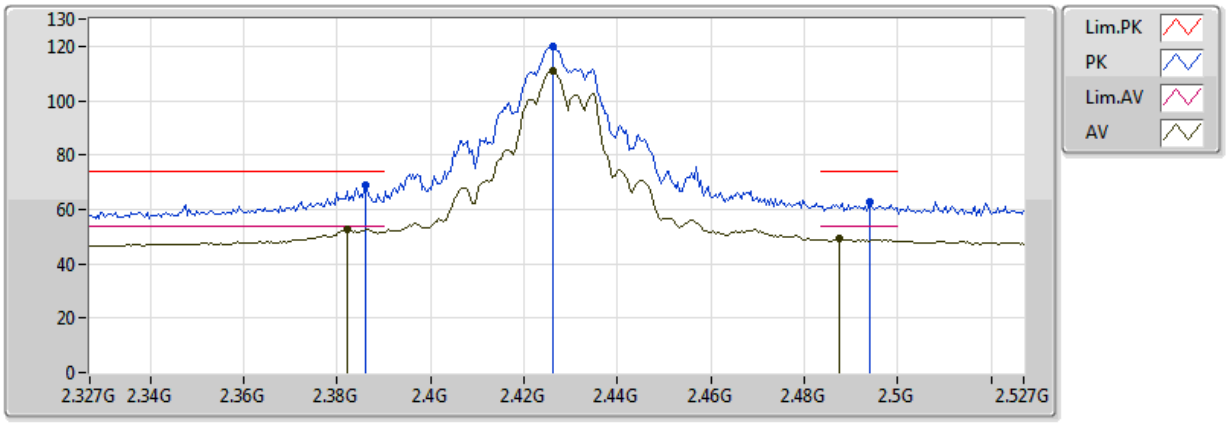


20171212
EUT Z_3TX
Setting 22.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3792G	52.71	54.00	-1.29	33.16	3	Horizontal	160	2.74
AV	2.4236G	109.81	Inf	-Inf	33.17	3	Horizontal	160	2.74
AV	2.4992G	48.48	54.00	-5.52	33.19	3	Horizontal	160	2.74
PK	2.39G	68.31	74.00	-5.69	33.16	3	Horizontal	160	2.74
PK	2.4232G	119.02	Inf	-Inf	33.17	3	Horizontal	160	2.74
PK	2.4944G	62.02	74.00	-11.98	33.19	3	Horizontal	160	2.74

802.11g_Nss1,(6Mbps)_3TX

2427MHz_TX

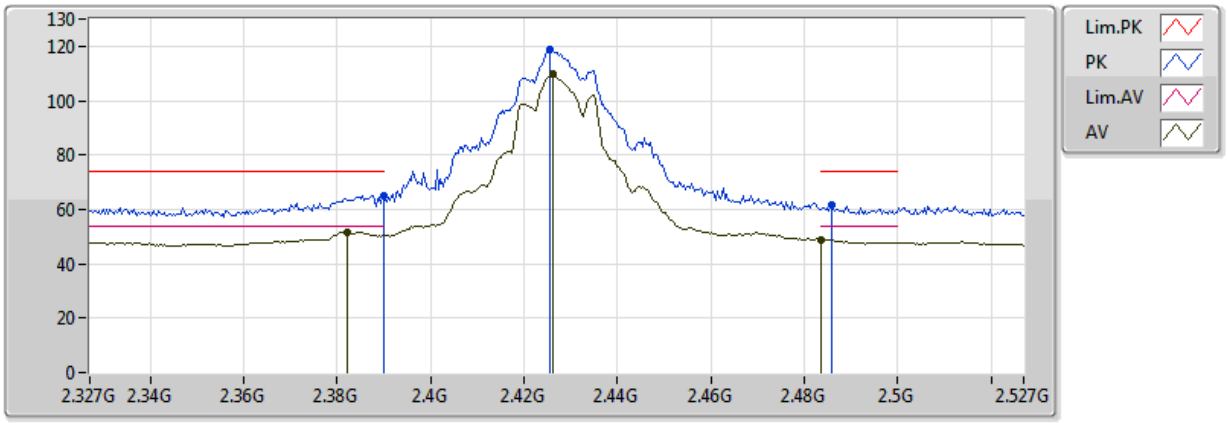


20171212
EUT Z_3TX
Setting 23
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3822G	52.78	54.00	-1.22	33.16	3	Vertical	159	1.49
AV	2.4262G	110.97	Inf	-Inf	33.18	3	Vertical	159	1.49
AV	2.4874G	49.15	54.00	-4.85	33.19	3	Vertical	159	1.49
PK	2.3862G	69.17	74.00	-4.83	33.16	3	Vertical	159	1.49
PK	2.4262G	120.06	Inf	-Inf	33.18	3	Vertical	159	1.49
PK	2.4942G	62.51	74.00	-11.49	33.19	3	Vertical	159	1.49

802.11g_Nss1,(6Mbps)_3TX

2427MHz_TX

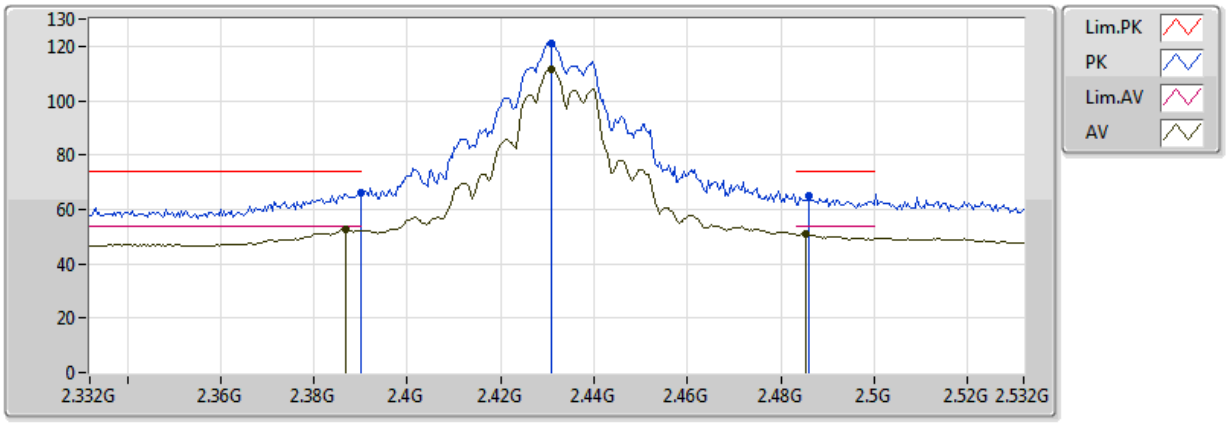


20171212
EUT Z_3TX
Setting 23
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3822G	51.51	54.00	-2.49	33.16	3	Horizontal	304	2.53
AV	2.4262G	109.58	Inf	-Inf	33.18	3	Horizontal	304	2.53
AV	2.483502G	48.87	54.00	-5.13	33.19	3	Horizontal	304	2.53
PK	2.389998G	65.25	74.00	-8.75	33.16	3	Horizontal	304	2.53
PK	2.4254G	118.97	Inf	-Inf	33.18	3	Horizontal	304	2.53
PK	2.4858G	61.55	74.00	-12.45	33.19	3	Horizontal	304	2.53

802.11g_Nss1,(6Mbps)_3TX

2432MHz_TX

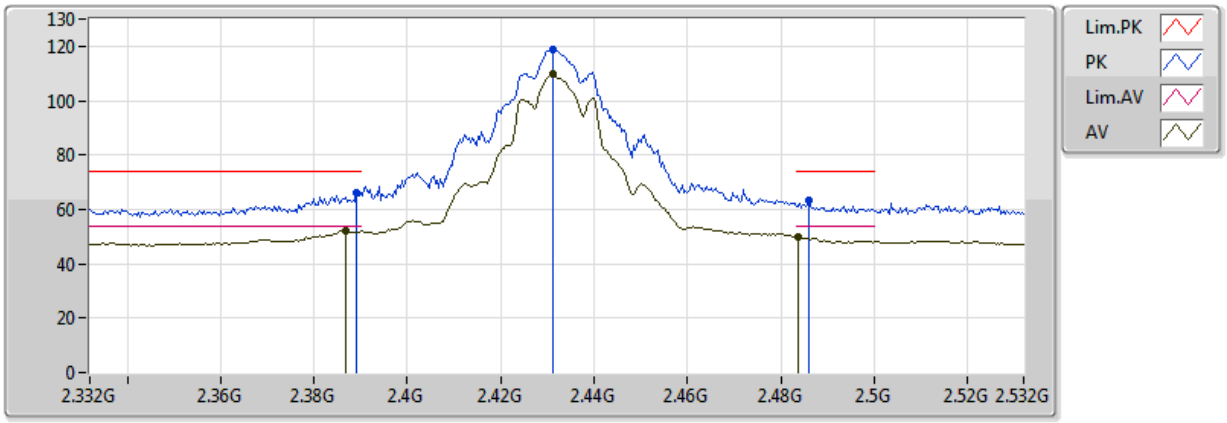


20171212
EUT Z_3TX
Setting 24
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3868G	52.83	54.00	-1.17	33.16	3	Vertical	154	2.99
AV	2.4308G	111.64	Inf	-Inf	33.18	3	Vertical	154	2.99
AV	2.4852G	50.74	54.00	-3.26	33.19	3	Vertical	154	2.99
PK	2.39G	65.93	74.00	-8.07	33.16	3	Vertical	154	2.99
PK	2.4308G	121.26	Inf	-Inf	33.18	3	Vertical	154	2.99
PK	2.486G	64.73	74.00	-9.27	33.19	3	Vertical	154	2.99

802.11g_Nss1,(6Mbps)_3TX

2432MHz_TX

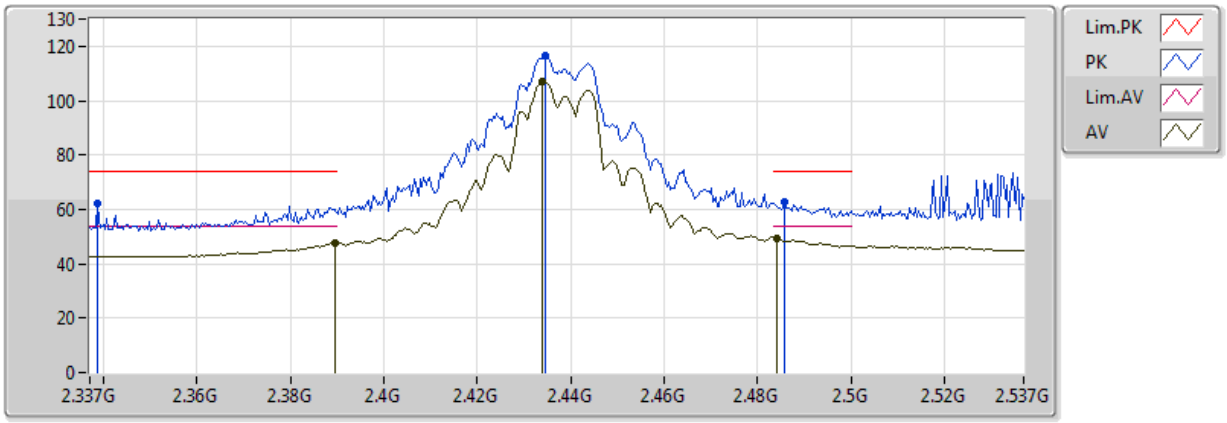


20171212
EUT Z_3TX
Setting 24
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3868G	52.04	54.00	-1.96	33.16	3	Horizontal	303	2.55
AV	2.4312G	109.70	Inf	-Inf	33.18	3	Horizontal	303	2.55
AV	2.4836G	50.07	54.00	-3.93	33.19	3	Horizontal	303	2.55
PK	2.3892G	66.06	74.00	-7.94	33.16	3	Horizontal	303	2.55
PK	2.4312G	118.74	Inf	-Inf	33.18	3	Horizontal	303	2.55
PK	2.486G	63.29	74.00	-10.71	33.19	3	Horizontal	303	2.55

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

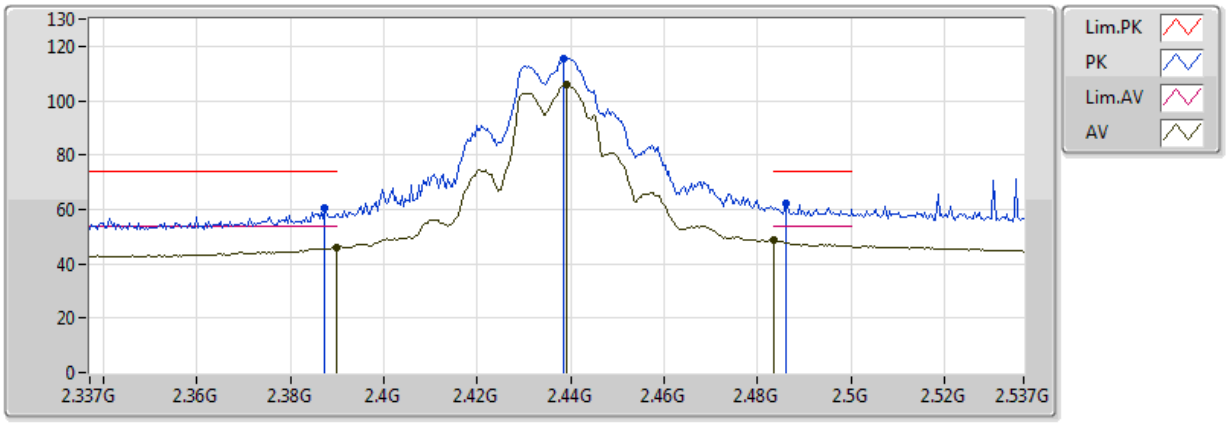


20171208
EUT Z_3TX
Setting 25
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	47.85	54.00	-6.15	29.93	3	Vertical	162	2.78
AV	2.4338G	107.06	Inf	-Inf	30.17	3	Vertical	162	2.78
AV	2.4842G	49.25	54.00	-4.75	30.51	3	Vertical	162	2.78
PK	2.3386G	62.29	74.00	-11.71	29.88	3	Vertical	162	2.78
PK	2.4346G	116.52	Inf	-Inf	30.18	3	Vertical	162	2.78
PK	2.4858G	63.03	74.00	-10.97	30.52	3	Vertical	162	2.78

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX



20171208
EUT Z_3TX
Setting 25
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	46.04	54.00	-7.96	29.93	3	Horizontal	230	2.99
AV	2.439G	105.89	Inf	-Inf	30.21	3	Horizontal	230	2.99
AV	2.483502G	48.91	54.00	-5.09	30.51	3	Horizontal	230	2.99
PK	2.3874G	60.79	74.00	-13.21	29.93	3	Horizontal	230	2.99
PK	2.4386G	115.67	Inf	-Inf	30.20	3	Horizontal	230	2.99
PK	2.4862G	61.97	74.00	-12.03	30.53	3	Horizontal	230	2.99

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87478G	31.33	54.00	-22.67	4.25	3	Vertical	90	1.74
PK	4.8698G	43.88	74.00	-30.12	4.24	3	Vertical	90	1.74

802.11g_Nss1,(6Mbps)_3TX

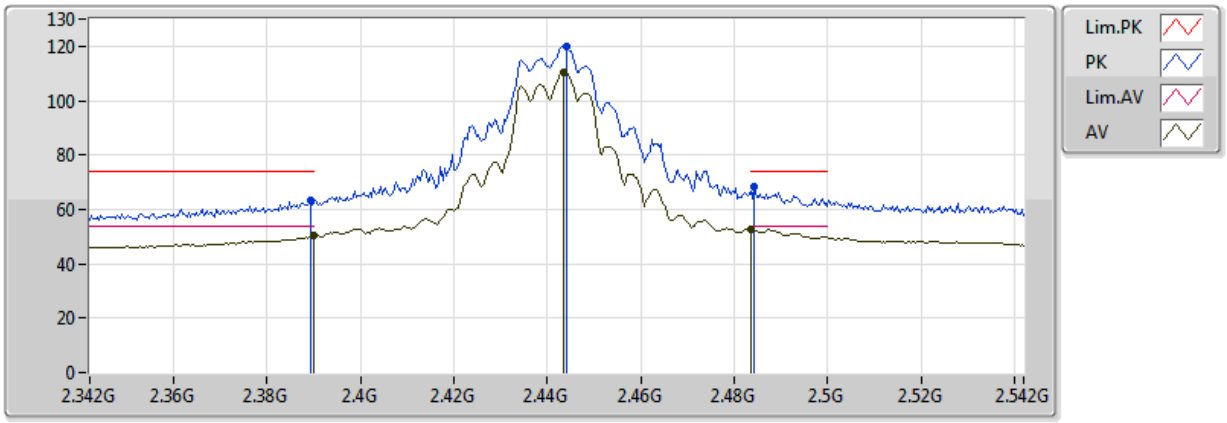
2437MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.88504G	31.24	54.00	-22.76	4.29	3	Horizontal	323	1.09
PK	4.88714G	44.42	74.00	-29.58	4.30	3	Horizontal	323	1.09

802.11g_Nss1,(6Mbps)_3TX

2442MHz_TX

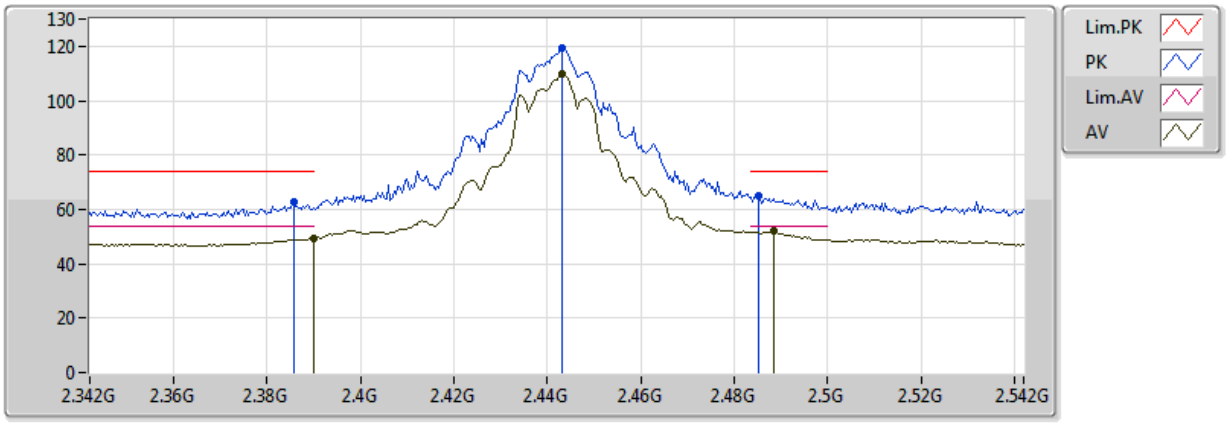


20171212
EUT Z_3TX
Setting 24
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	50.16	54.00	-3.84	33.16	3	Vertical	161	2.68
AV	2.4436G	110.50	Inf	-Inf	33.18	3	Vertical	161	2.68
AV	2.4836G	52.81	54.00	-1.19	33.19	3	Vertical	161	2.68
PK	2.3892G	63.56	74.00	-10.44	33.16	3	Vertical	161	2.68
PK	2.444G	119.91	Inf	-Inf	33.18	3	Vertical	161	2.68
PK	2.4844G	68.16	74.00	-5.84	33.19	3	Vertical	161	2.68

802.11g_Nss1,(6Mbps)_3TX

2442MHz_TX

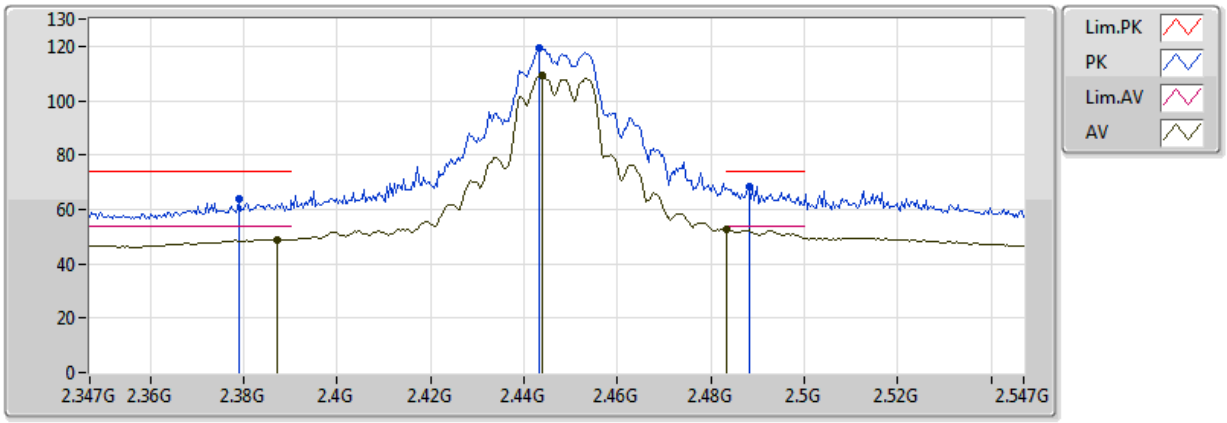


20171212
EUT Z_3TX
Setting 24
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	49.58	54.00	-4.42	33.16	3	Horizontal	310	2.80
AV	2.4432G	109.93	Inf	-Inf	33.18	3	Horizontal	310	2.80
AV	2.4884G	52.15	54.00	-1.85	33.19	3	Horizontal	310	2.80
PK	2.3856G	63.01	74.00	-10.99	33.16	3	Horizontal	310	2.80
PK	2.4432G	119.30	Inf	-Inf	33.18	3	Horizontal	310	2.80
PK	2.4852G	64.95	74.00	-9.05	33.19	3	Horizontal	310	2.80

802.11g_Nss1,(6Mbps)_3TX

2447MHz_TX

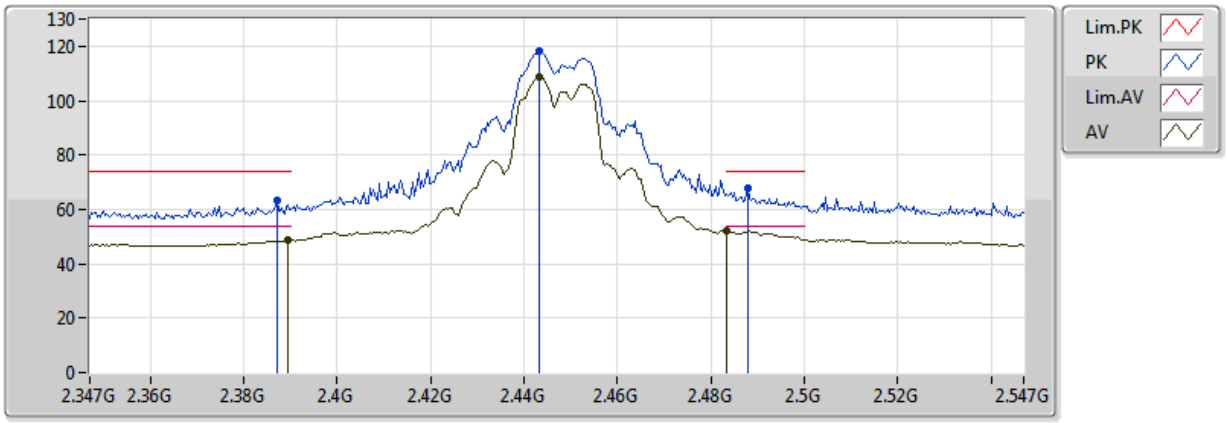


20171212
EUT Z_3TX
Setting 23.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.387G	48.91	54.00	-5.09	33.16	3	Vertical	158	2.88
AV	2.4438G	109.15	Inf	-Inf	33.18	3	Vertical	158	2.88
AV	2.483502G	52.79	54.00	-1.21	33.19	3	Vertical	158	2.88
PK	2.379G	63.99	74.00	-10.01	33.16	3	Vertical	158	2.88
PK	2.4434G	119.34	Inf	-Inf	33.18	3	Vertical	158	2.88
PK	2.4882G	68.29	74.00	-5.71	33.19	3	Vertical	158	2.88

802.11g_Nss1,(6Mbps)_3TX

2447MHz_TX

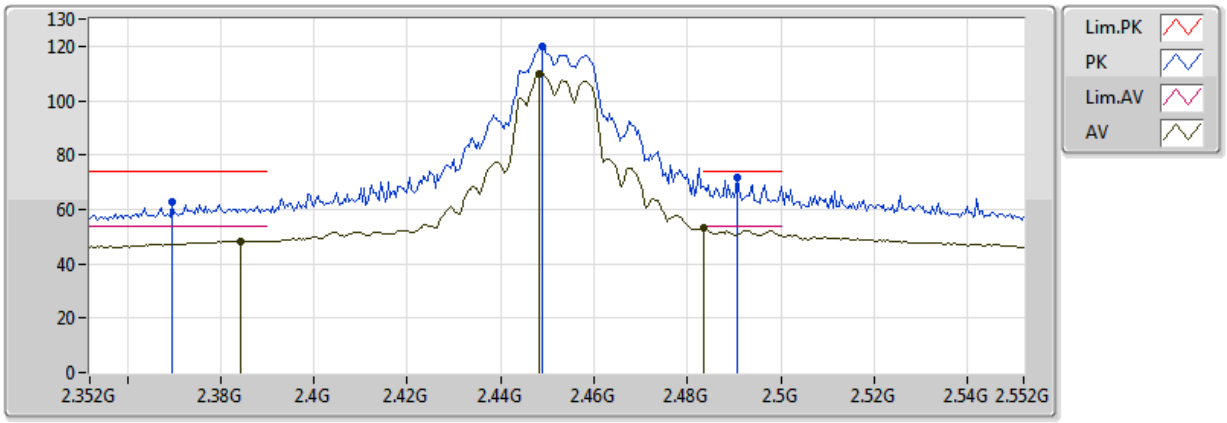


20171212
EUT Z_3TX
Setting 23.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	48.55	54.00	-5.45	33.16	3	Horizontal	310	2.79
AV	2.4434G	108.69	Inf	-Inf	33.18	3	Horizontal	310	2.79
AV	2.483502G	52.10	54.00	-1.90	33.19	3	Horizontal	310	2.79
PK	2.387G	63.23	74.00	-10.77	33.16	3	Horizontal	310	2.79
PK	2.4434G	118.29	Inf	-Inf	33.18	3	Horizontal	310	2.79
PK	2.4878G	67.64	74.00	-6.36	33.19	3	Horizontal	310	2.79

802.11g_Nss1,(6Mbps)_3TX

2452MHz_TX

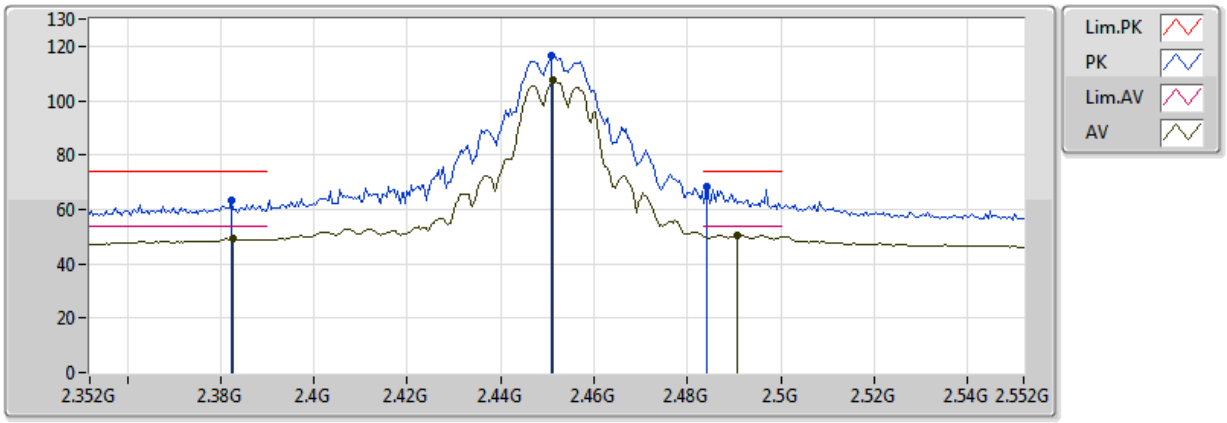


20171212
EUT Z_3TX
Setting 23
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3844G	48.45	54.00	-5.55	33.16	3	Vertical	158	2.90
AV	2.4484G	109.61	Inf	-Inf	33.18	3	Vertical	158	2.90
AV	2.4836G	52.96	54.00	-1.04	33.19	3	Vertical	158	2.90
PK	2.3696G	62.55	74.00	-11.45	33.15	3	Vertical	158	2.90
PK	2.4488G	120.07	Inf	-Inf	33.18	3	Vertical	158	2.90
PK	2.4908G	71.46	74.00	-2.54	33.19	3	Vertical	158	2.90

802.11g_Nss1,(6Mbps)_3TX

2452MHz_TX

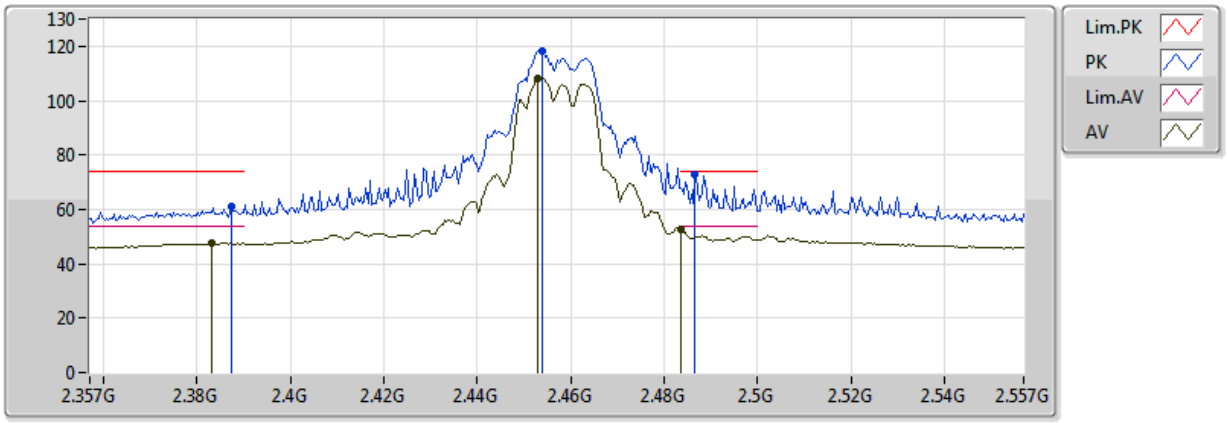


20171212
EUT Z_3TX
Setting 23
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3828G	49.06	54.00	-4.94	33.16	3	Horizontal	179	2.82
AV	2.4512G	107.40	Inf	-Inf	33.18	3	Horizontal	179	2.82
AV	2.4908G	50.49	54.00	-3.51	33.19	3	Horizontal	179	2.82
PK	2.3824G	63.36	74.00	-10.64	33.16	3	Horizontal	179	2.82
PK	2.4508G	116.60	Inf	-Inf	33.18	3	Horizontal	179	2.82
PK	2.484G	68.18	74.00	-5.82	33.19	3	Horizontal	179	2.82

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

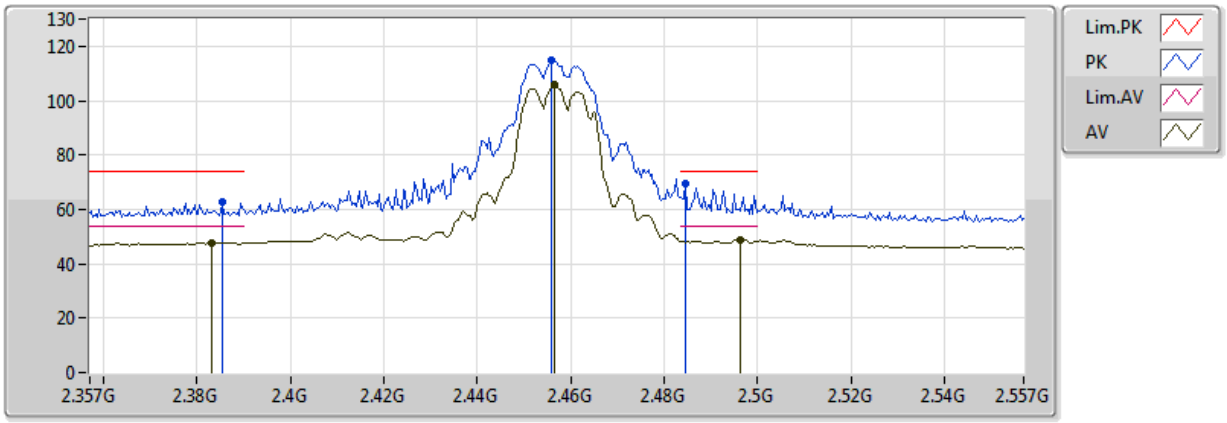


20171212
EUT Z_3TX
Setting 21.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.383G	47.65	54.00	-6.35	33.16	3	Vertical	154	2.95
AV	2.453G	108.40	Inf	-Inf	33.18	3	Vertical	154	2.95
AV	2.483502G	52.76	54.00	-1.24	33.19	3	Vertical	154	2.95
PK	2.3874G	61.27	74.00	-12.73	33.16	3	Vertical	154	2.95
PK	2.4538G	118.17	Inf	-Inf	33.18	3	Vertical	154	2.95
PK	2.4866G	72.65	74.00	-1.35	33.19	3	Vertical	154	2.95

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

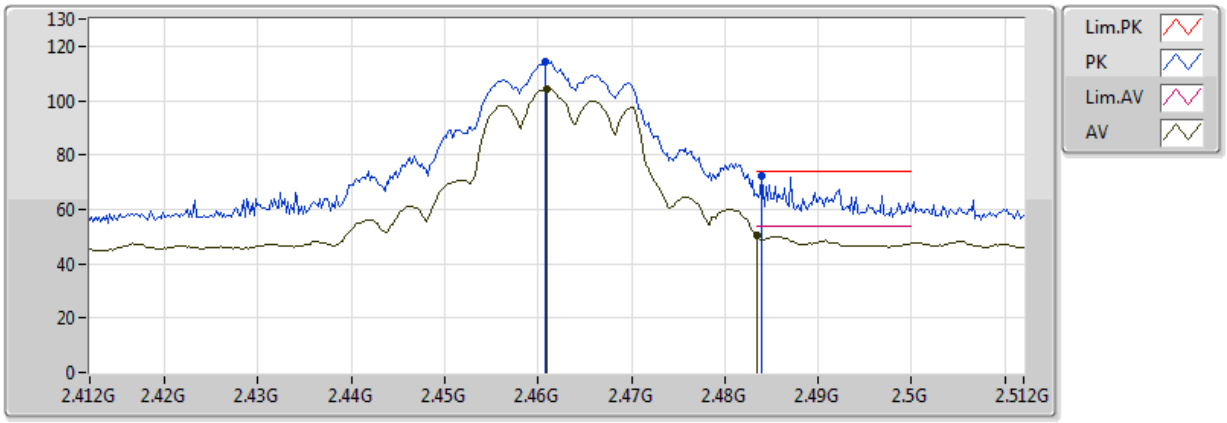


20171212
EUT Z_3TX
Setting 21.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.383G	47.69	54.00	-6.31	33.16	3	Horizontal	180	2.84
AV	2.4566G	106.04	Inf	-Inf	33.18	3	Horizontal	180	2.84
AV	2.4962G	49.03	54.00	-4.97	33.19	3	Horizontal	180	2.84
PK	2.3854G	62.55	74.00	-11.45	33.16	3	Horizontal	180	2.84
PK	2.4558G	115.08	Inf	-Inf	33.18	3	Horizontal	180	2.84
PK	2.4846G	69.67	74.00	-4.33	33.19	3	Horizontal	180	2.84

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

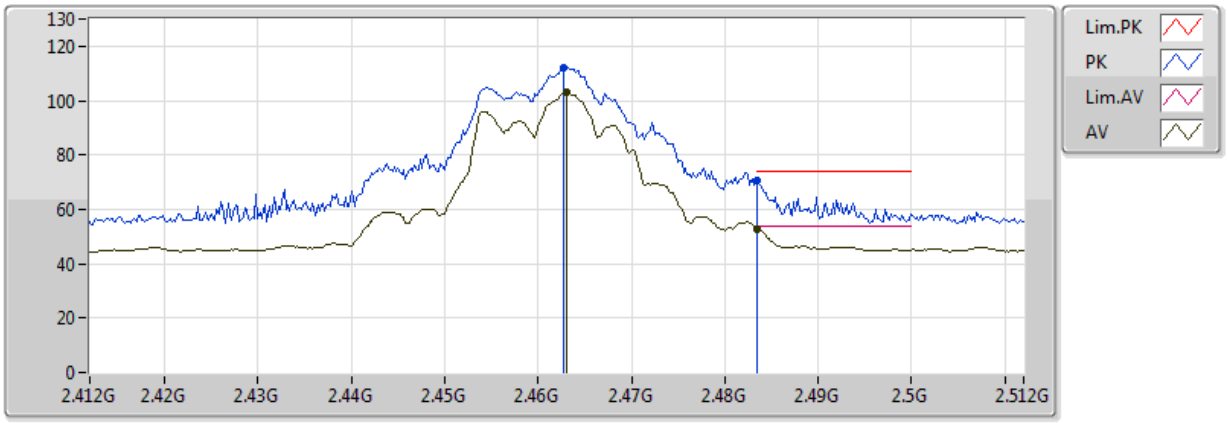


20171208
EUT Z_3TX
Setting 22
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.461G	104.49	Inf	-Inf	30.35	3	Vertical	153	1.47
AV	2.483502G	50.43	54.00	-3.57	30.51	3	Vertical	153	1.47
PK	2.4608G	114.21	Inf	-Inf	30.35	3	Vertical	153	1.47
PK	2.484G	72.27	74.00	-1.73	30.51	3	Vertical	153	1.47

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX



20171208
EUT Z_3TX
Setting 22
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.463G	102.83	Inf	-Inf	30.37	3	Horizontal	164	1.51
AV	2.483502G	52.89	54.00	-1.11	30.51	3	Horizontal	164	1.51
PK	2.4628G	111.88	Inf	-Inf	30.37	3	Horizontal	164	1.51
PK	2.483502G	70.47	74.00	-3.53	30.51	3	Horizontal	164	1.51

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

20171208
EUT Z_3TX
Setting 22
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92538G	31.87	54.00	-22.13	4.44	3	Vertical	301	1.62
PK	4.91368G	44.77	74.00	-29.23	4.40	3	Vertical	301	1.62

802.11g_Nss1,(6Mbps)_3TX

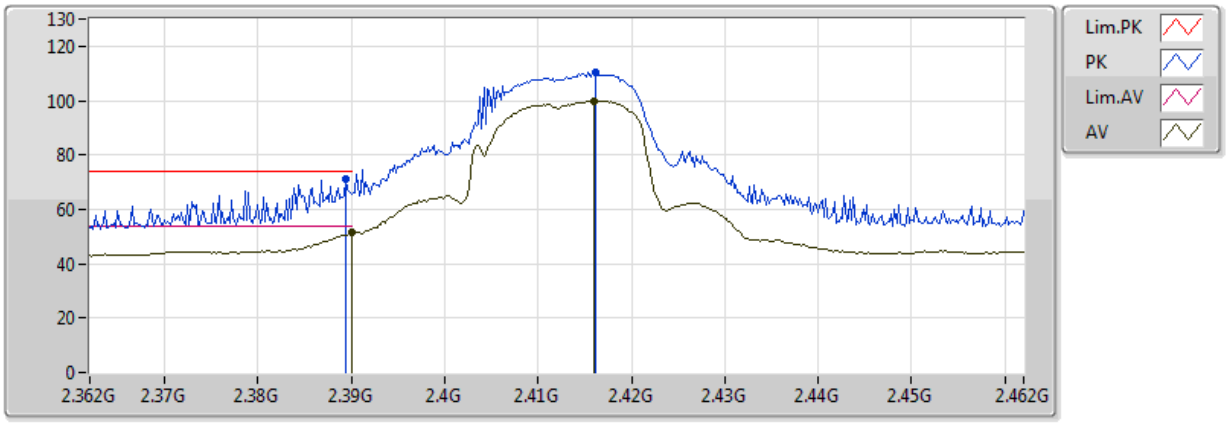
2462MHz_TX

20171208
EUT Z_3TX
Setting 22
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92706G	36.94	54.00	-17.06	4.45	3	Horizontal	65	1.01
PK	4.92802G	49.74	74.00	-24.26	4.45	3	Horizontal	65	1.01

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX

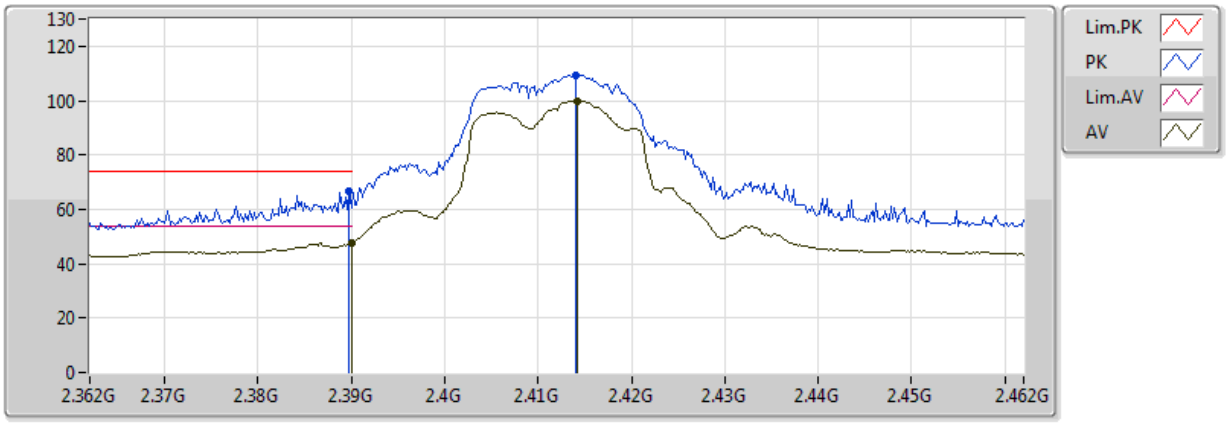


20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	51.28	54.00	-2.72	29.93	3	Vertical	43	1.48
AV	2.416G	99.98	Inf	-Inf	30.05	3	Vertical	43	1.48
PK	2.3894G	70.89	74.00	-3.11	29.93	3	Vertical	43	1.48
PK	2.4162G	110.23	Inf	-Inf	30.05	3	Vertical	43	1.48

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX



20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	47.70	54.00	-6.30	29.93	3	Horizontal	167	1.29
AV	2.4142G	99.97	Inf	-Inf	30.04	3	Horizontal	167	1.29
PK	2.3898G	66.63	74.00	-7.37	29.93	3	Horizontal	167	1.29
PK	2.414G	109.33	Inf	-Inf	30.04	3	Horizontal	167	1.29

802.11n HT20_Nss1,(MCS0)_3TX

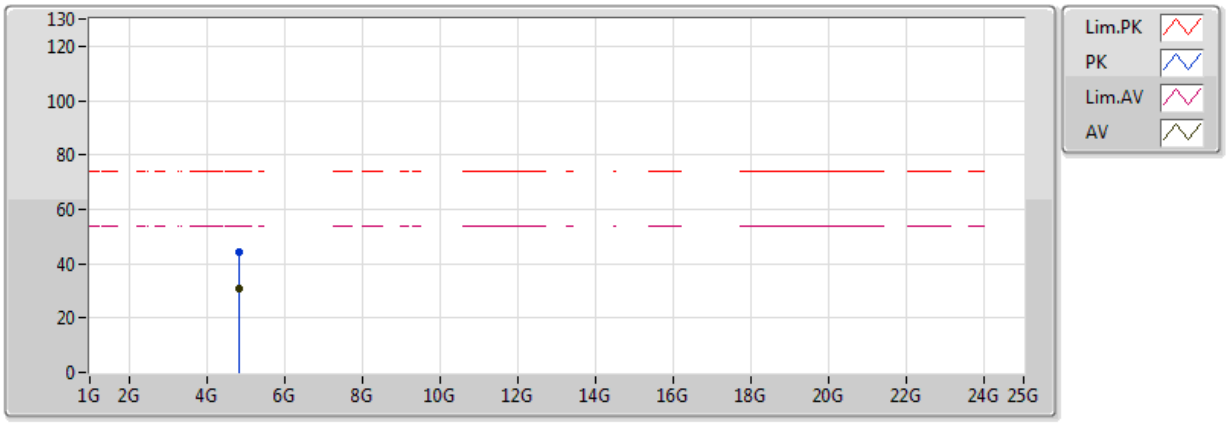
2412MHz_TX

20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.82648G	30.68	54.00	-23.32	4.07	3	Vertical	162	1.52
PK	4.82218G	43.56	74.00	-30.44	4.05	3	Vertical	162	1.52

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX

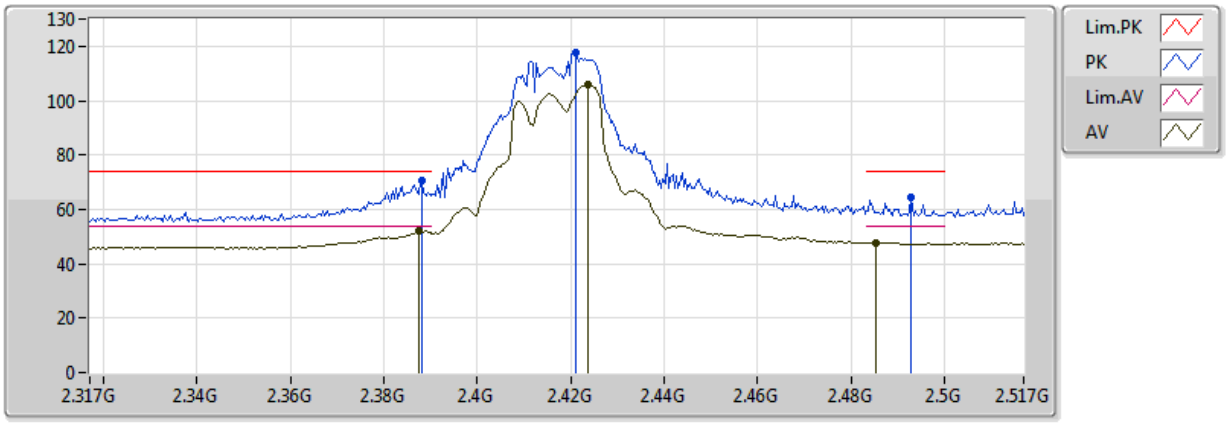


20171208
EUT Z_3TX
Setting 21.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.81916G	30.69	54.00	-23.31	4.04	3	Horizontal	62	2.32
PK	4.82442G	44.00	74.00	-30.00	4.06	3	Horizontal	62	2.32

802.11n HT20_Nss1,(MCS0)_3TX

2417MHz_TX

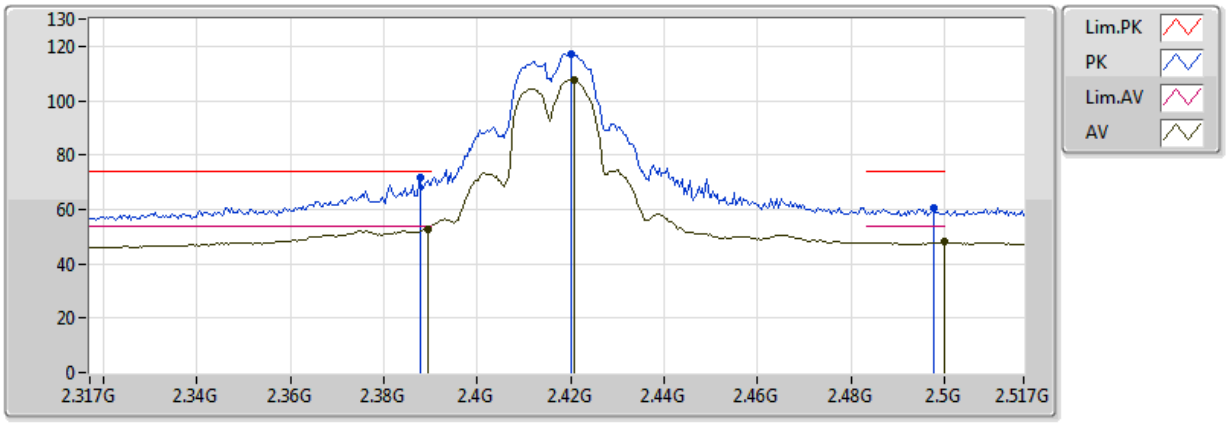


20171212
EUT Z_3TX
Setting 21.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3874G	51.95	54.00	-2.05	33.16	3	Vertical	166	2.99
AV	2.4238G	105.81	Inf	-Inf	33.17	3	Vertical	166	2.99
AV	2.4854G	47.81	54.00	-6.19	33.19	3	Vertical	166	2.99
PK	2.3882G	70.34	74.00	-3.66	33.16	3	Vertical	166	2.99
PK	2.421G	117.47	Inf	-Inf	33.17	3	Vertical	166	2.99
PK	2.493G	64.48	74.00	-9.52	33.19	3	Vertical	166	2.99

802.11n HT20_Nss1,(MCS0)_3TX

2417MHz_TX

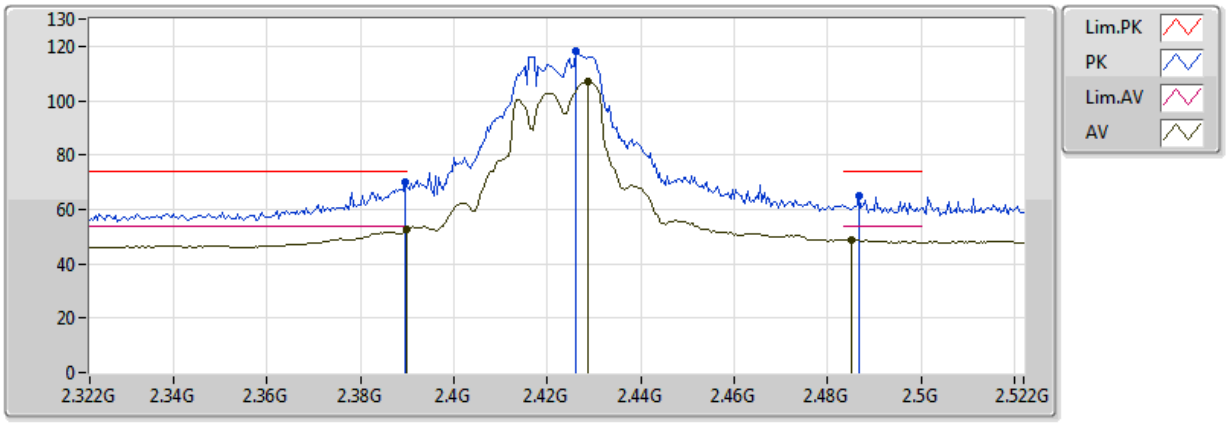


20171212
EUT Z_3TX
Setting 21.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	52.91	54.00	-1.09	33.16	3	Horizontal	171	2.97
AV	2.4206G	107.84	Inf	-Inf	33.17	3	Horizontal	171	2.97
AV	2.499998G	48.01	54.00	-5.99	33.19	3	Horizontal	171	2.97
PK	2.3878G	71.90	74.00	-2.10	33.16	3	Horizontal	171	2.97
PK	2.4202G	117.26	Inf	-Inf	33.17	3	Horizontal	171	2.97
PK	2.4978G	60.50	74.00	-13.50	33.19	3	Horizontal	171	2.97

802.11n HT20_Nss1,(MCS0)_3TX

2422MHz_TX

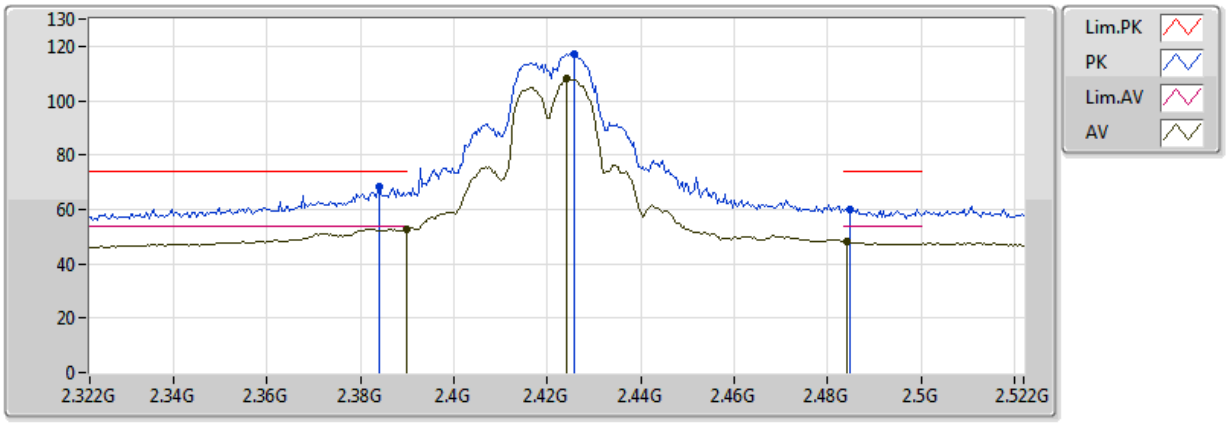


20171212
EUT Z_3TX
Setting 22.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	52.46	54.00	-1.54	33.16	3	Vertical	172	2.56
AV	2.4288G	106.76	Inf	-Inf	33.18	3	Vertical	160	2.99
AV	2.4852G	48.78	54.00	-5.22	33.19	3	Vertical	160	2.99
PK	2.3896G	70.02	74.00	-3.98	33.16	3	Vertical	160	2.99
PK	2.426G	118.03	Inf	-Inf	33.18	3	Vertical	160	2.99
PK	2.4868G	64.76	74.00	-9.24	33.19	3	Vertical	160	2.99

802.11n HT20_Nss1,(MCS0)_3TX

2422MHz_TX

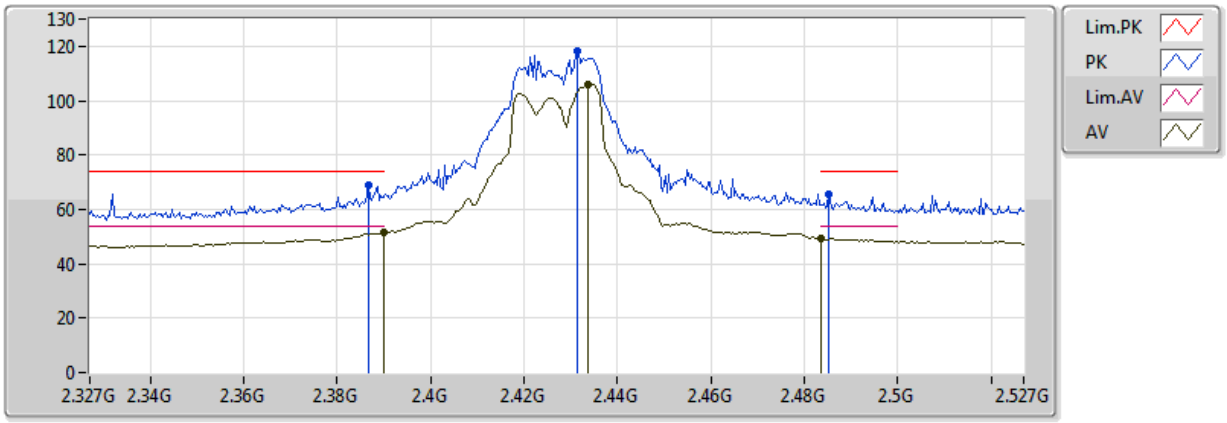


20171212
EUT Z_3TX
Setting 22.5
04-W-3
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	52.92	54.00	-1.08	33.16	3	Horizontal	172	2.56
AV	2.424G	108.10	Inf	-Inf	33.17	3	Horizontal	172	2.56
AV	2.484G	48.29	54.00	-5.71	33.19	3	Horizontal	172	2.56
PK	2.384G	68.25	74.00	-5.75	33.16	3	Horizontal	172	2.56
PK	2.4256G	117.36	Inf	-Inf	33.18	3	Horizontal	172	2.56
PK	2.4848G	60.16	74.00	-13.84	33.19	3	Horizontal	172	2.56

802.11n HT20_Nss1,(MCS0)_3TX

2427MHz_TX

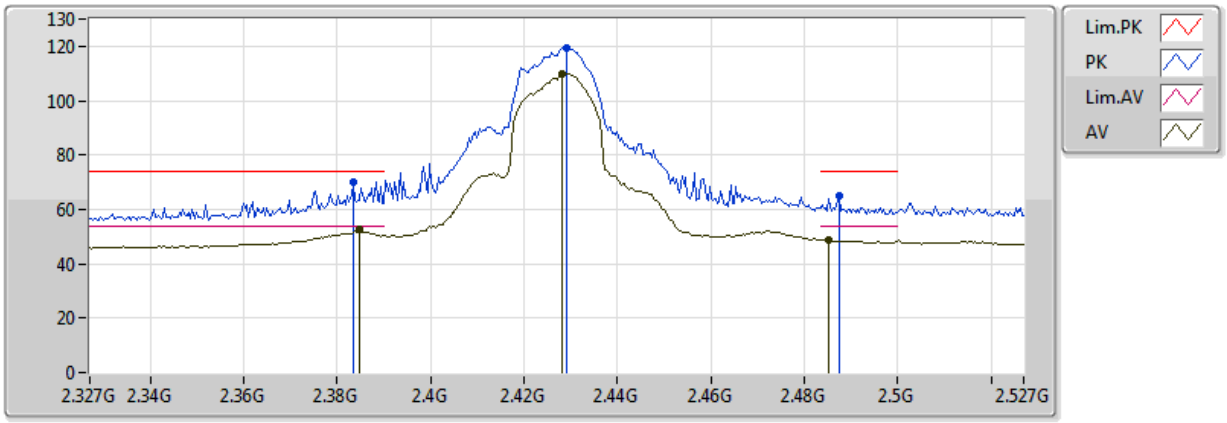


20171212
EUT Z_3TX
Setting 22.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	51.29	54.00	-2.71	33.16	3	Vertical	173	1.68
AV	2.4338G	105.94	Inf	-Inf	33.18	3	Vertical	173	1.68
AV	2.483502G	49.40	54.00	-4.60	33.19	3	Vertical	173	1.68
PK	2.3866G	69.15	74.00	-4.85	33.16	3	Vertical	173	1.68
PK	2.4314G	118.16	Inf	-Inf	33.18	3	Vertical	173	1.68
PK	2.4854G	65.56	74.00	-8.44	33.19	3	Vertical	173	1.68

802.11n HT20_Nss1,(MCS0)_3TX

2427MHz_TX

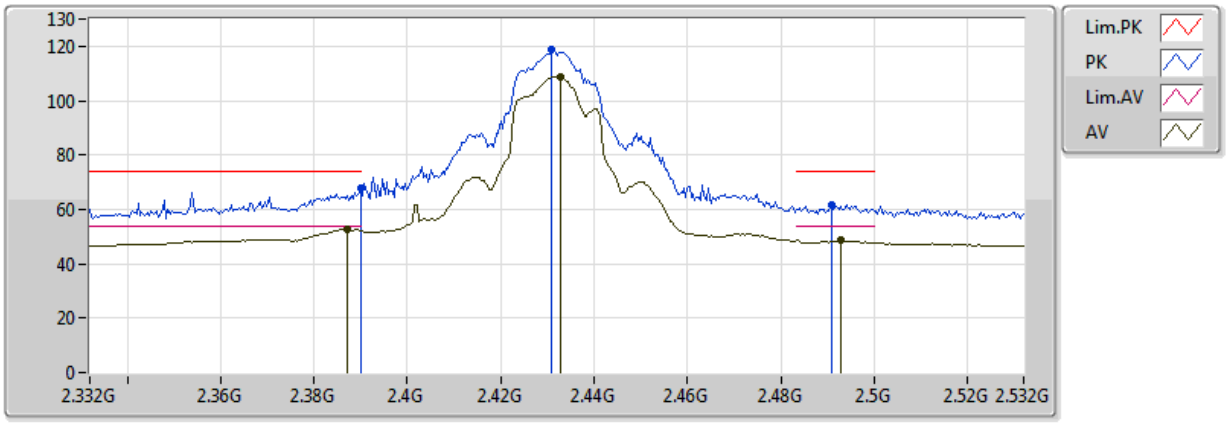


20171213
EUT Z_3TX
Setting 22.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3846G	52.53	54.00	-1.47	33.16	3	Horizontal	145	2.99
AV	2.4282G	110.08	Inf	-Inf	33.18	3	Horizontal	145	2.99
AV	2.4854G	48.74	54.00	-5.26	33.19	3	Horizontal	145	2.99
PK	2.3834G	70.23	74.00	-3.77	33.16	3	Horizontal	145	2.99
PK	2.429G	119.59	Inf	-Inf	33.18	3	Horizontal	145	2.99
PK	2.4874G	64.81	74.00	-9.19	33.19	3	Horizontal	145	2.99

802.11n HT20_Nss1,(MCS0)_3TX

2432MHz_TX

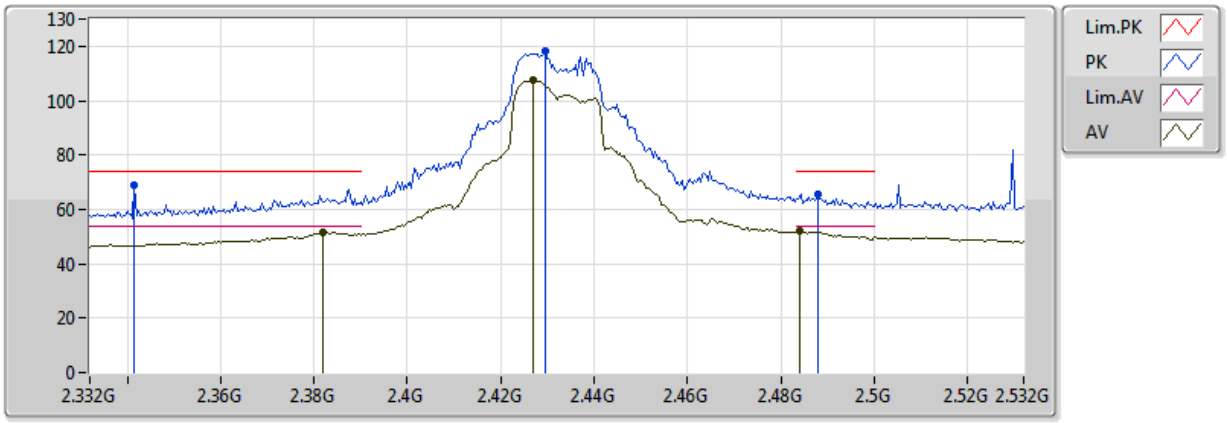


20171212
EUT Z_3TX
Setting 23.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3872G	52.67	54.00	-1.33	33.16	3	Vertical	90	1.92
AV	2.4328G	108.63	Inf	-Inf	33.18	3	Vertical	90	1.92
AV	2.4928G	48.49	54.00	-5.51	33.19	3	Vertical	90	1.92
PK	2.39G	67.69	74.00	-6.31	33.16	3	Vertical	90	1.92
PK	2.4308G	118.72	Inf	-Inf	33.18	3	Vertical	90	1.92
PK	2.4908G	61.73	74.00	-12.27	33.19	3	Vertical	90	1.92

802.11n HT20_Nss1,(MCS0)_3TX

2432MHz_TX

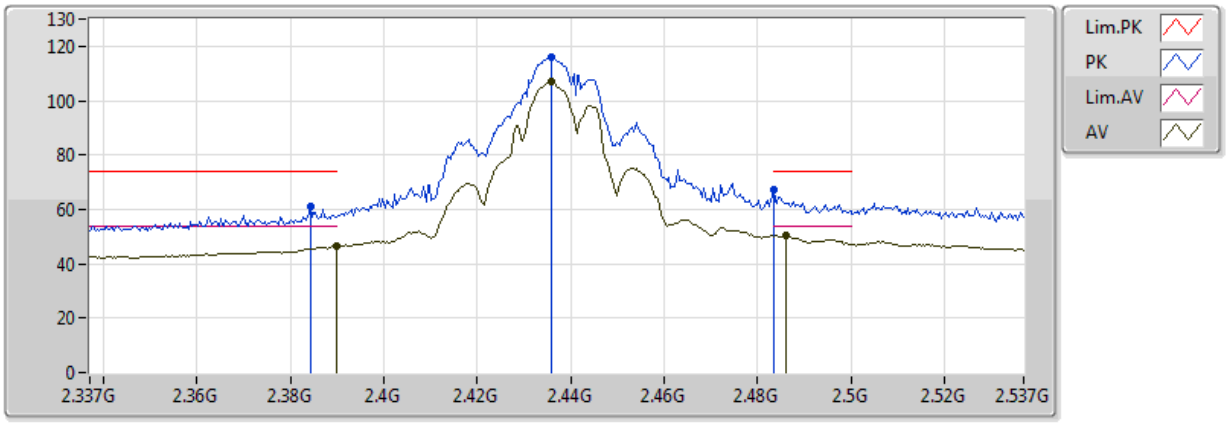


20171212
EUT Z_3TX
Setting 23.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.382G	51.74	54.00	-2.26	33.16	3	Horizontal	150	2.99
AV	2.4268G	107.40	Inf	-Inf	33.18	3	Horizontal	150	2.99
AV	2.484G	51.96	54.00	-2.04	33.19	3	Horizontal	150	2.99
PK	2.3416G	68.71	74.00	-5.29	33.13	3	Horizontal	150	2.99
PK	2.4296G	118.36	Inf	-Inf	33.18	3	Horizontal	150	2.99
PK	2.488G	65.64	74.00	-8.36	33.19	3	Horizontal	150	2.99

802.11n HT20_Nss1,(MCS0)_3TX

2437MHz_TX

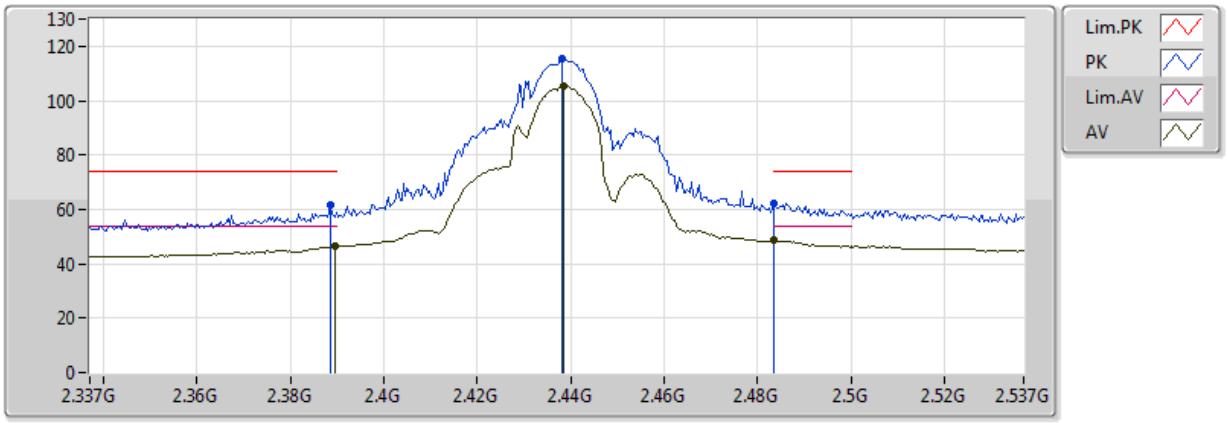


20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	46.41	54.00	-7.59	29.93	3	Vertical	155	1.21
AV	2.4358G	106.82	Inf	-Inf	30.18	3	Vertical	155	1.21
AV	2.4862G	50.45	54.00	-3.55	30.53	3	Vertical	155	1.21
PK	2.3842G	60.81	74.00	-13.19	29.92	3	Vertical	155	1.21
PK	2.4358G	116.19	Inf	-Inf	30.18	3	Vertical	155	1.21
PK	2.483502G	67.30	74.00	-6.70	30.51	3	Vertical	155	1.21

802.11n HT20_Nss1,(MCS0)_3TX

2437MHz_TX



20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3894G	46.23	54.00	-7.77	29.93	3	Horizontal	219	2.99
AV	2.4386G	105.47	Inf	-Inf	30.20	3	Horizontal	219	2.99
AV	2.483502G	48.60	54.00	-5.40	30.51	3	Horizontal	219	2.99
PK	2.3886G	61.63	74.00	-12.37	29.93	3	Horizontal	219	2.99
PK	2.4382G	115.16	Inf	-Inf	30.20	3	Horizontal	219	2.99
PK	2.483502G	62.25	74.00	-11.75	30.51	3	Horizontal	219	2.99

802.11n HT20_Nss1,(MCS0)_3TX

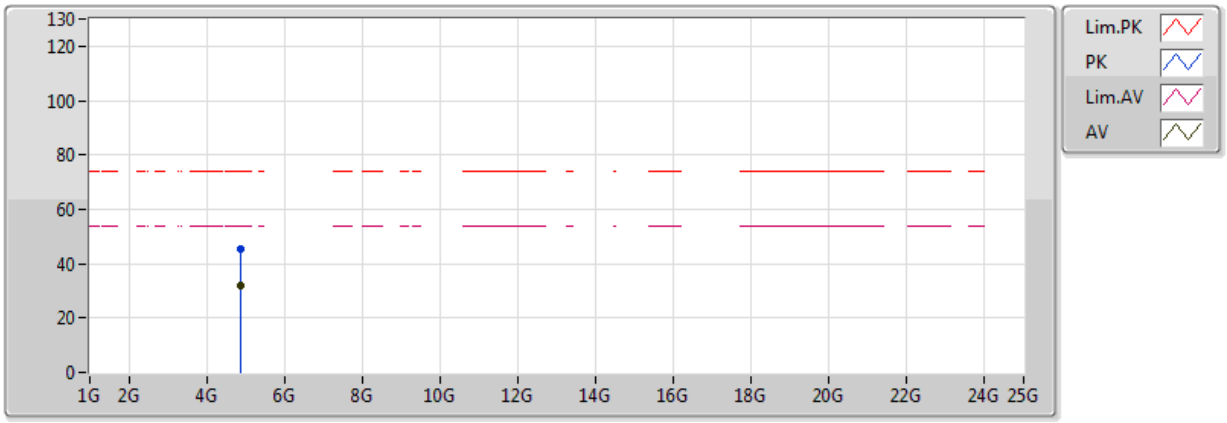
2437MHz_TX

20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87164G	31.79	54.00	-22.21	4.24	3	Vertical	305	2.16
PK	4.8718G	48.32	74.00	-25.68	4.24	3	Vertical	305	2.16

802.11n HT20_Nss1,(MCS0)_3TX

2437MHz_TX

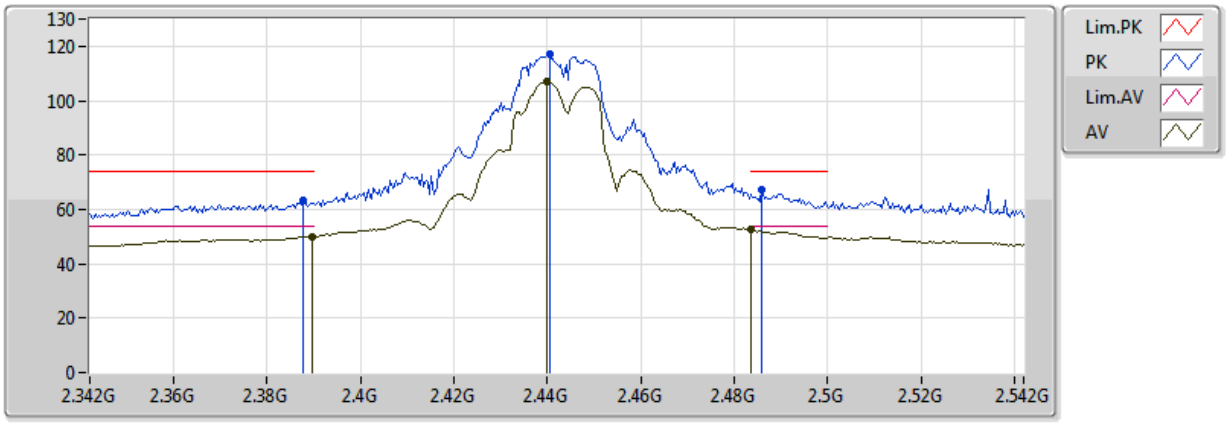


20171208
EUT Z_3TX
Setting 25
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.87114G	31.68	54.00	-22.32	4.24	3	Horizontal	13	1.72
PK	4.87152G	45.31	74.00	-28.69	4.24	3	Horizontal	13	1.72

802.11n HT20_Nss1,(MCS0)_3TX

2442MHz_TX

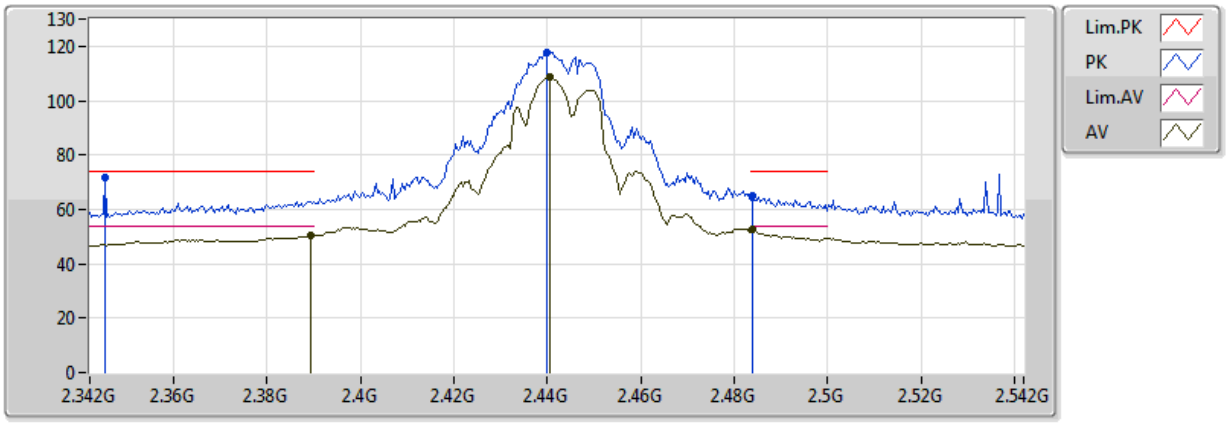


20171212
EUT Z_3TX
Setting 24
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3896G	50.02	54.00	-3.98	33.16	3	Vertical	140	1.21
AV	2.44G	106.84	Inf	-Inf	33.18	3	Vertical	140	1.21
AV	2.4836G	52.52	54.00	-1.48	33.19	3	Vertical	140	1.21
PK	2.3876G	63.42	74.00	-10.58	33.16	3	Vertical	140	1.21
PK	2.4404G	116.87	Inf	-Inf	33.18	3	Vertical	140	1.21
PK	2.486G	67.34	74.00	-6.66	33.19	3	Vertical	140	1.21

802.11n HT20_Nss1,(MCS0)_3TX

2442MHz_TX

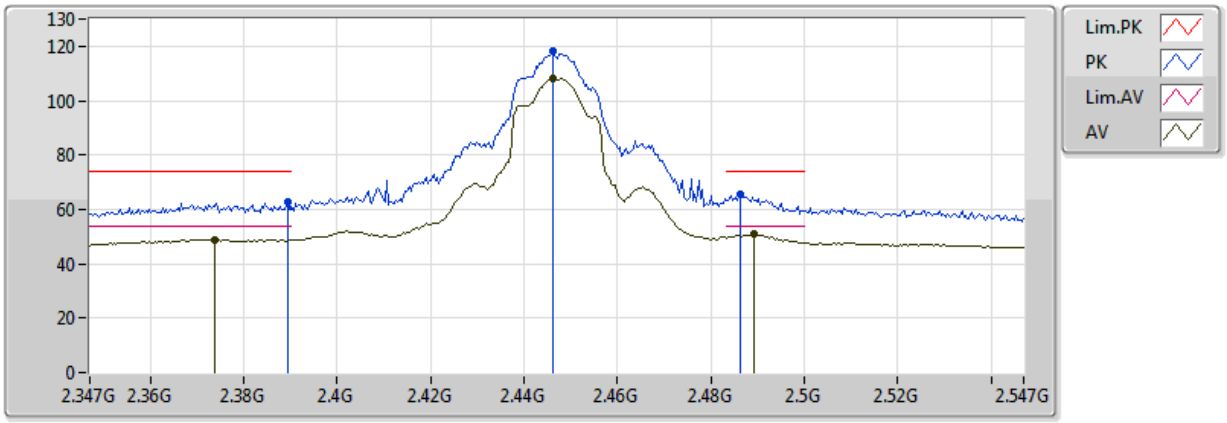


20171212
EUT Z_3TX
Setting 24
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3892G	50.47	54.00	-3.53	33.16	3	Horizontal	170	2.48
AV	2.4404G	108.81	Inf	-Inf	33.18	3	Horizontal	170	2.48
AV	2.484G	52.54	54.00	-1.46	33.19	3	Horizontal	170	2.48
PK	2.3452G	71.85	74.00	-2.15	33.14	3	Horizontal	170	2.48
PK	2.44G	117.87	Inf	-Inf	33.18	3	Horizontal	170	2.48
PK	2.484G	64.74	74.00	-9.26	33.19	3	Horizontal	170	2.48

802.11n HT20_Nss1,(MCS0)_3TX

2447MHz_TX

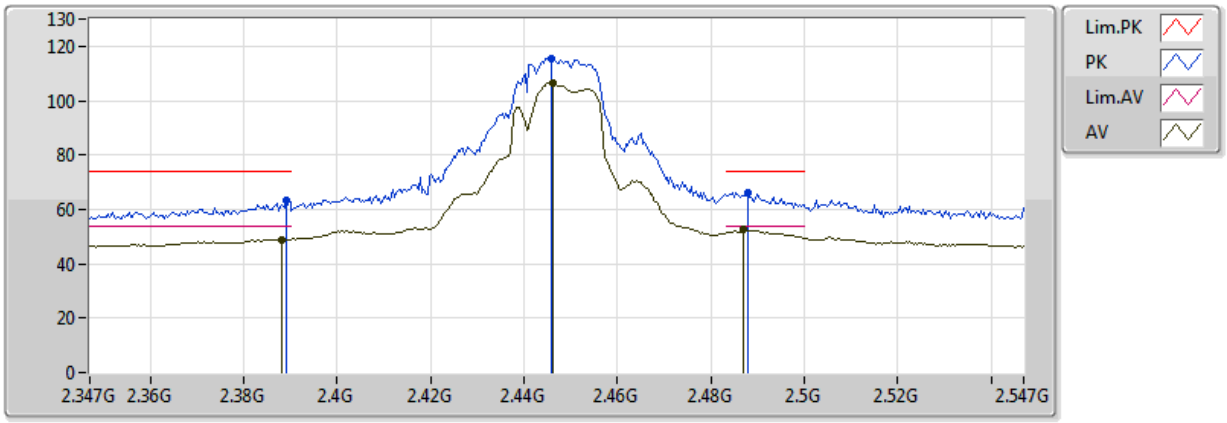


20171212
EUT Z_3TX
Setting 23
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3738G	48.99	54.00	-5.01	33.15	3	Vertical	90	1.56
AV	2.4462G	108.04	Inf	-Inf	33.18	3	Vertical	90	1.56
AV	2.4894G	50.79	54.00	-3.21	33.19	3	Vertical	90	1.56
PK	2.3894G	62.51	74.00	-11.49	33.16	3	Vertical	90	1.56
PK	2.4462G	118.02	Inf	-Inf	33.18	3	Vertical	90	1.56
PK	2.4862G	65.39	74.00	-8.61	33.19	3	Vertical	90	1.56

802.11n HT20_Nss1,(MCS0)_3TX

2447MHz_TX

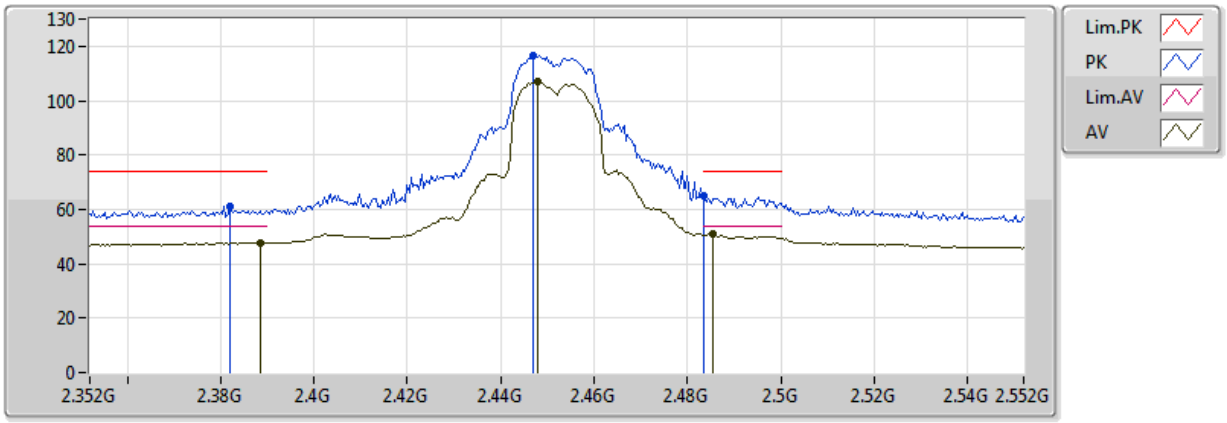


20171212
EUT Z_3TX
Setting 23
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3882G	48.97	54.00	-5.03	33.16	3	Horizontal	157	2.70
AV	2.4462G	106.45	Inf	-Inf	33.18	3	Horizontal	157	2.70
AV	2.487G	52.51	54.00	-1.49	33.19	3	Horizontal	157	2.70
PK	2.389G	63.16	74.00	-10.84	33.16	3	Horizontal	157	2.70
PK	2.4458G	115.70	Inf	-Inf	33.18	3	Horizontal	157	2.70
PK	2.4878G	66.05	74.00	-7.95	33.19	3	Horizontal	157	2.70

802.11n HT20_Nss1,(MCS0)_3TX

2452MHz_TX

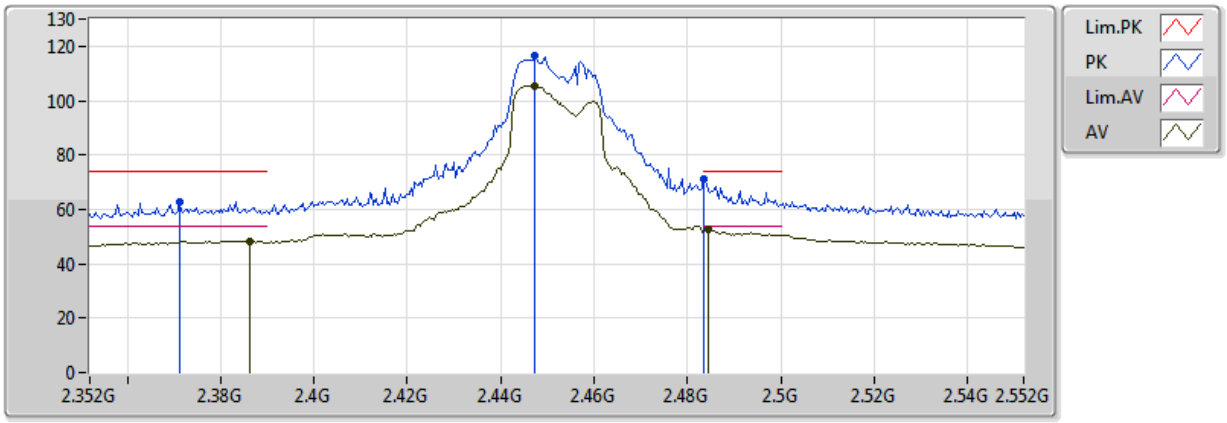


20171212
EUT Z_3TX
Setting 23
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3884G	47.78	54.00	-6.22	33.16	3	Vertical	235	1.43
AV	2.448G	106.92	Inf	-Inf	33.18	3	Vertical	235	1.43
AV	2.4856G	50.81	54.00	-3.19	33.19	3	Vertical	235	1.43
PK	2.382G	61.09	74.00	-12.91	33.16	3	Vertical	235	1.43
PK	2.4468G	116.31	Inf	-Inf	33.18	3	Vertical	235	1.43
PK	2.4836G	64.75	74.00	-9.25	33.19	3	Vertical	235	1.43

802.11n HT20_Nss1,(MCS0)_3TX

2452MHz_TX

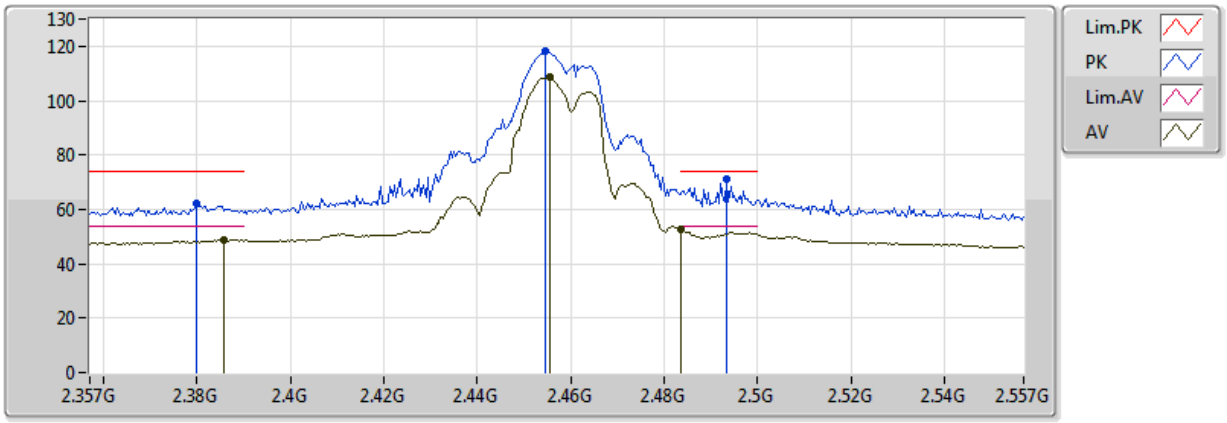


20171212
EUT Z_3TX
Setting 23
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3864G	48.37	54.00	-5.63	33.16	3	Horizontal	141	2.93
AV	2.4472G	105.47	Inf	-Inf	33.18	3	Horizontal	141	2.93
AV	2.4844G	52.85	54.00	-1.15	33.19	3	Horizontal	141	2.93
PK	2.3712G	62.51	74.00	-11.49	33.15	3	Horizontal	141	2.93
PK	2.4472G	116.34	Inf	-Inf	33.18	3	Horizontal	141	2.93
PK	2.4836G	71.30	74.00	-2.70	33.19	3	Horizontal	141	2.93

802.11n HT20_Nss1,(MCS0)_3TX

2457MHz_TX

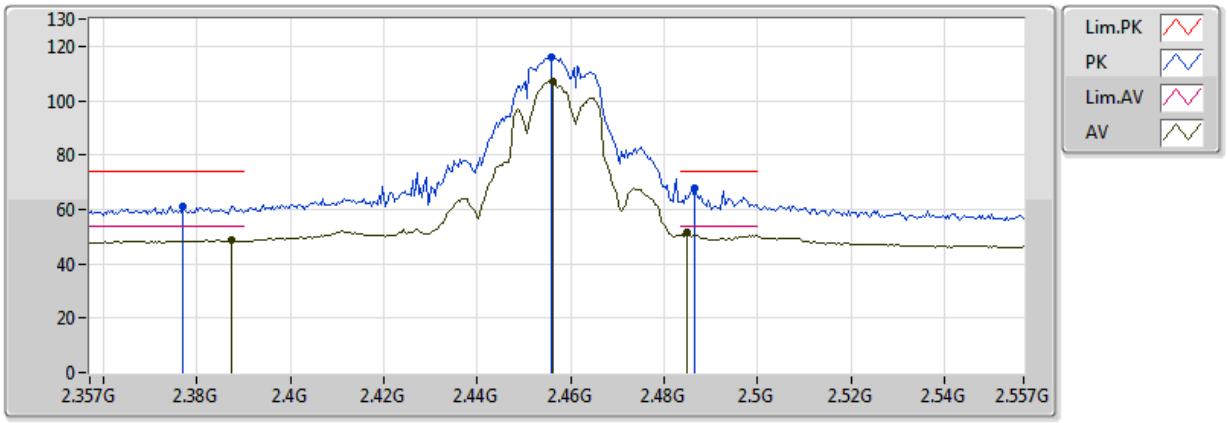


20171212
EUT Z_3TX
Setting 22.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3858G	48.82	54.00	-5.18	33.16	3	Vertical	146	1.30
AV	2.4554G	108.70	Inf	-Inf	33.18	3	Vertical	146	1.30
AV	2.483502G	52.83	54.00	-1.17	33.19	3	Vertical	146	1.30
PK	2.3798G	62.10	74.00	-11.90	33.16	3	Vertical	146	1.30
PK	2.4546G	117.96	Inf	-Inf	33.18	3	Vertical	146	1.30
PK	2.4934G	71.06	74.00	-2.94	33.19	3	Vertical	146	1.30

802.11n HT20_Nss1,(MCS0)_3TX

2457MHz_TX

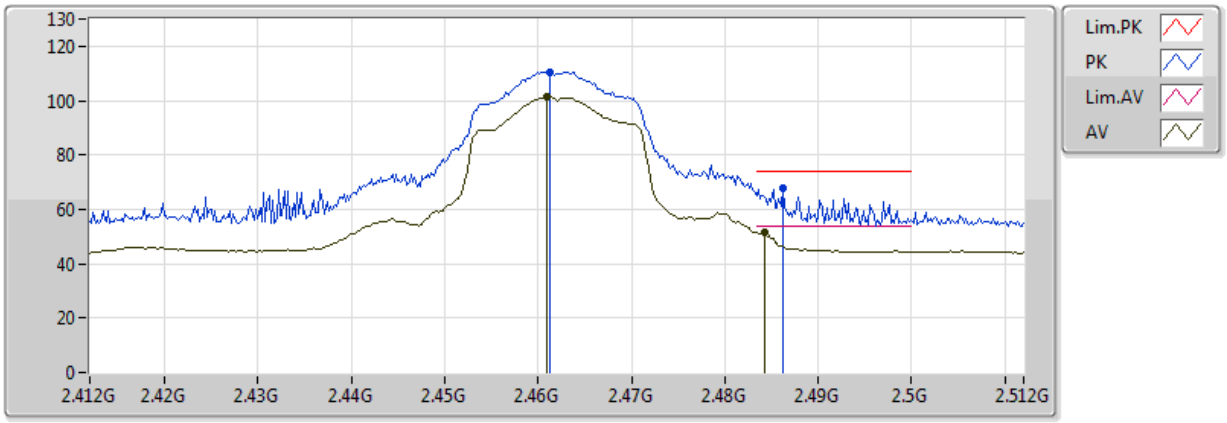


20171212
EUT Z_3TX
Setting 22.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3874G	48.70	54.00	-5.30	33.16	3	Horizontal	169	2.84
AV	2.4562G	107.18	Inf	-Inf	33.18	3	Horizontal	169	2.84
AV	2.485G	51.31	54.00	-2.69	33.19	3	Horizontal	169	2.84
PK	2.377G	60.96	74.00	-13.04	33.16	3	Horizontal	169	2.84
PK	2.4558G	116.26	Inf	-Inf	33.18	3	Horizontal	169	2.84
PK	2.4866G	67.57	74.00	-6.43	33.19	3	Horizontal	169	2.84

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

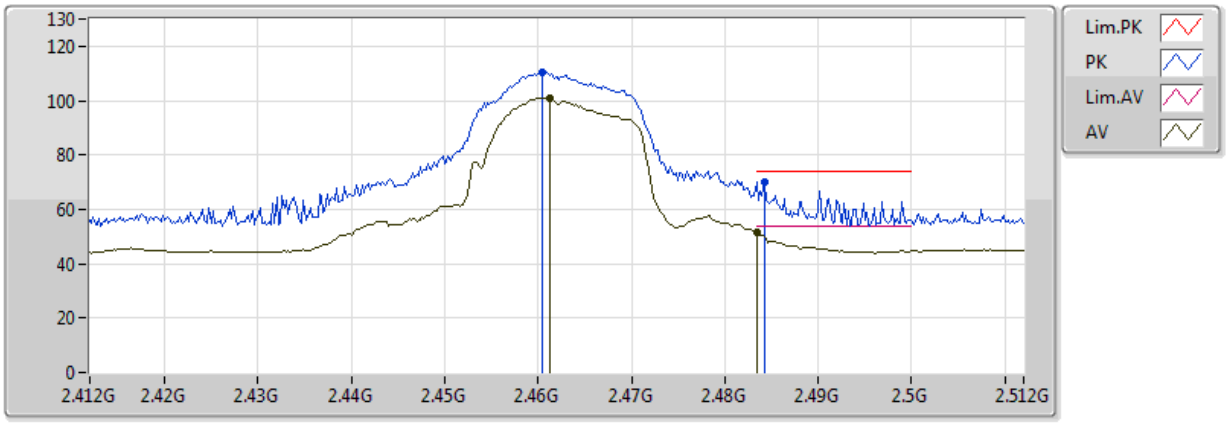


20171208
EUT Z_3TX
Setting 21
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.461G	101.41	Inf	-Inf	30.35	3	Vertical	83	1.45
AV	2.4842G	51.42	54.00	-2.58	30.51	3	Vertical	83	1.45
PK	2.4612G	110.61	Inf	-Inf	30.36	3	Vertical	83	1.45
PK	2.4862G	67.54	74.00	-6.46	30.53	3	Vertical	83	1.45

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

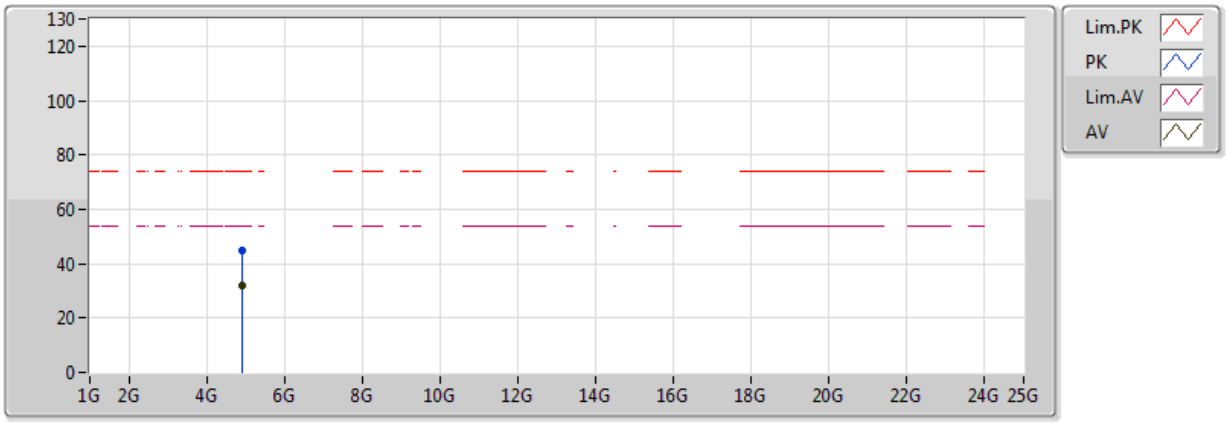


20171208
EUT Z_3TX
Setting 21
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.4612G	101.02	Inf	-Inf	30.36	3	Horizontal	154	2.89
AV	2.483502G	51.28	54.00	-2.72	30.51	3	Horizontal	154	2.89
PK	2.4604G	110.54	Inf	-Inf	30.35	3	Horizontal	154	2.89
PK	2.4842G	70.27	74.00	-3.73	30.51	3	Horizontal	154	2.89

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

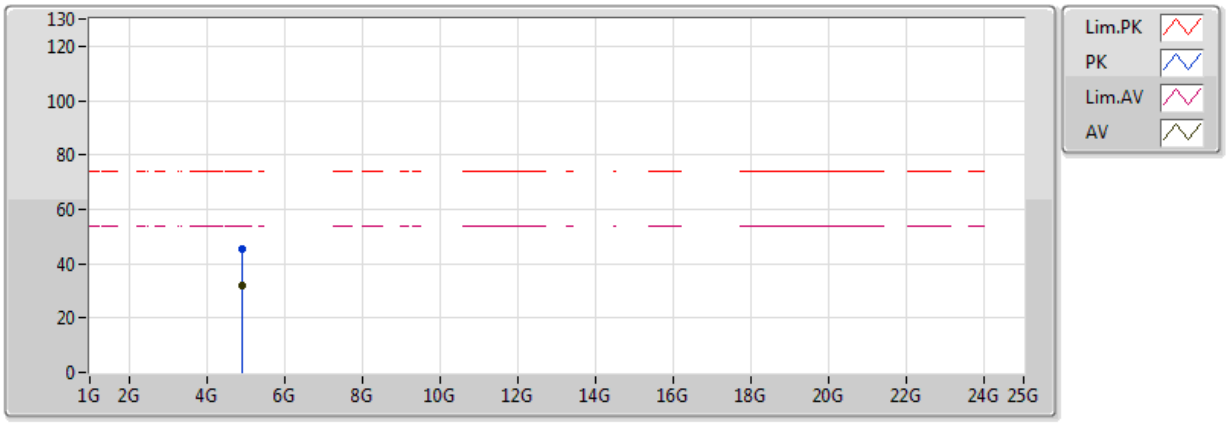


20171208
EUT Z_3TX
Setting 21
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.92192G	31.86	54.00	-22.14	4.43	3	Vertical	174	2.34
PK	4.92588G	45.03	74.00	-28.97	4.45	3	Vertical	174	2.34

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

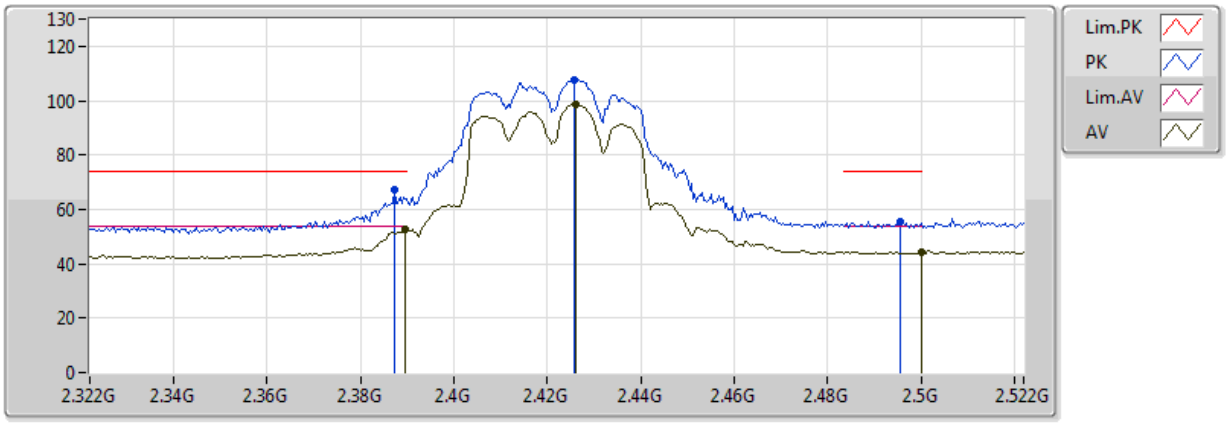


20171208
EUT Z_3TX
Setting 21
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.91954G	31.98	54.00	-22.02	4.42	3	Horizontal	71	1.58
PK	4.9246G	45.22	74.00	-28.78	4.44	3	Horizontal	71	1.58

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

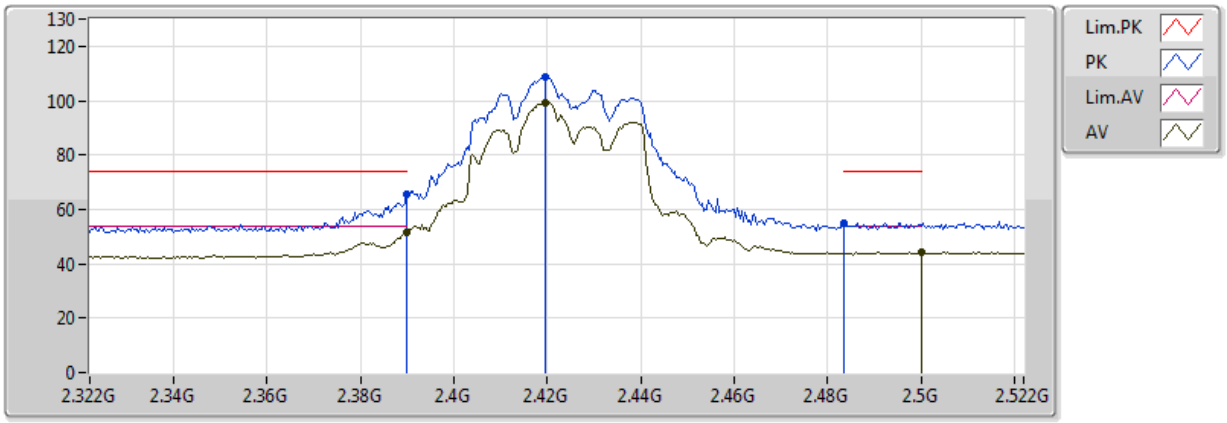


20171208
EUT Z_3TX
Setting 20.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3896G	52.72	54.00	-1.28	29.93	3	Vertical	171	1.58
AV	2.426G	98.89	Inf	-Inf	30.12	3	Vertical	171	1.58
AV	2.5G	44.38	54.00	-9.62	30.62	3	Vertical	171	1.58
PK	2.3872G	67.10	74.00	-6.90	29.93	3	Vertical	171	1.58
PK	2.4256G	107.70	Inf	-Inf	30.11	3	Vertical	171	1.58
PK	2.4956G	55.31	74.00	-18.69	30.59	3	Vertical	171	1.58

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

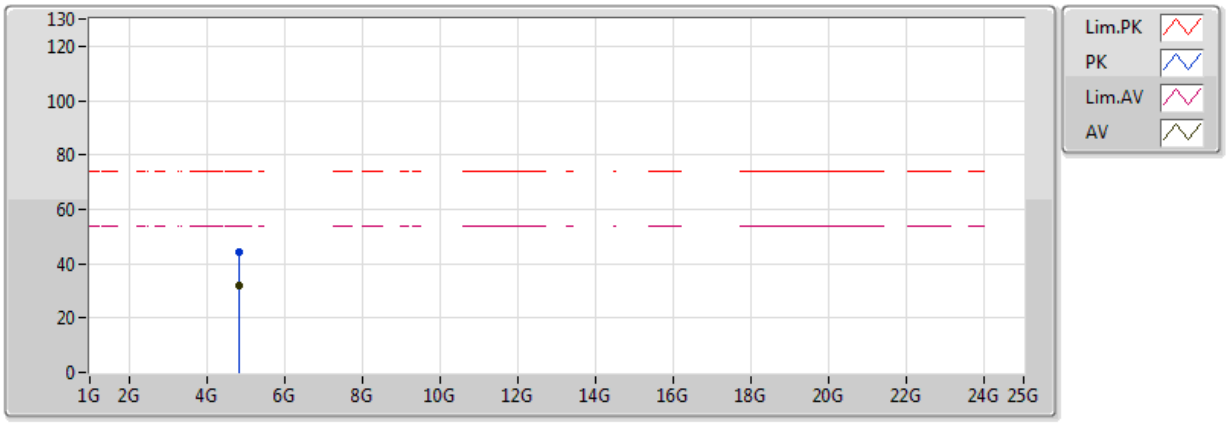


20171208
EUT Z_3TX
Setting 20.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	51.68	54.00	-2.32	29.93	3	Horizontal	168	1.34
AV	2.4196G	99.24	Inf	-Inf	30.07	3	Horizontal	168	1.34
AV	2.5G	44.54	54.00	-9.46	30.62	3	Horizontal	168	1.34
PK	2.39G	65.50	74.00	-8.50	29.93	3	Horizontal	168	1.34
PK	2.4196G	108.44	Inf	-Inf	30.07	3	Horizontal	168	1.34
PK	2.4836G	54.83	74.00	-19.17	30.51	3	Horizontal	168	1.34

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

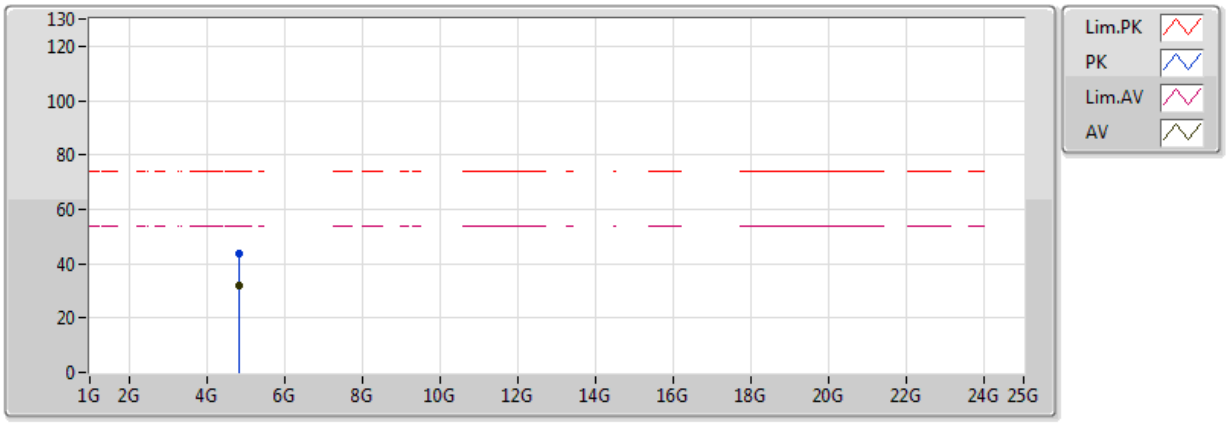


20171208
EUT Z_3TX
Setting 20.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.84836G	31.97	54.00	-22.03	4.15	3	Vertical	151	1.84
PK	4.84854G	44.26	74.00	-29.74	4.15	3	Vertical	151	1.84

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

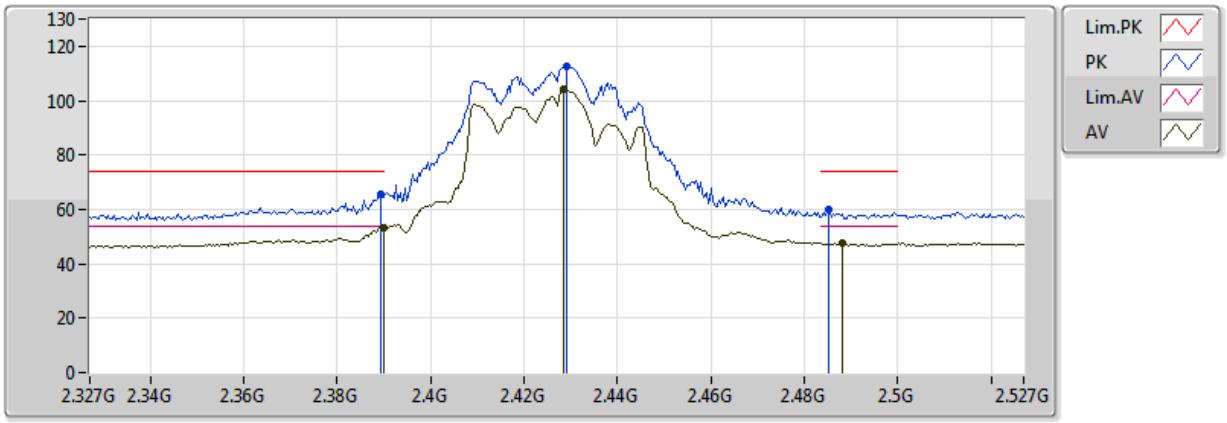


20171208
EUT Z_3TX
Setting 20.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.84208G	31.84	54.00	-22.16	4.13	3	Horizontal	100	1.95
PK	4.8393G	43.86	74.00	-30.14	4.12	3	Horizontal	100	1.95

802.11n HT40_Nss1,(MCS0)_3TX

2427MHz_TX

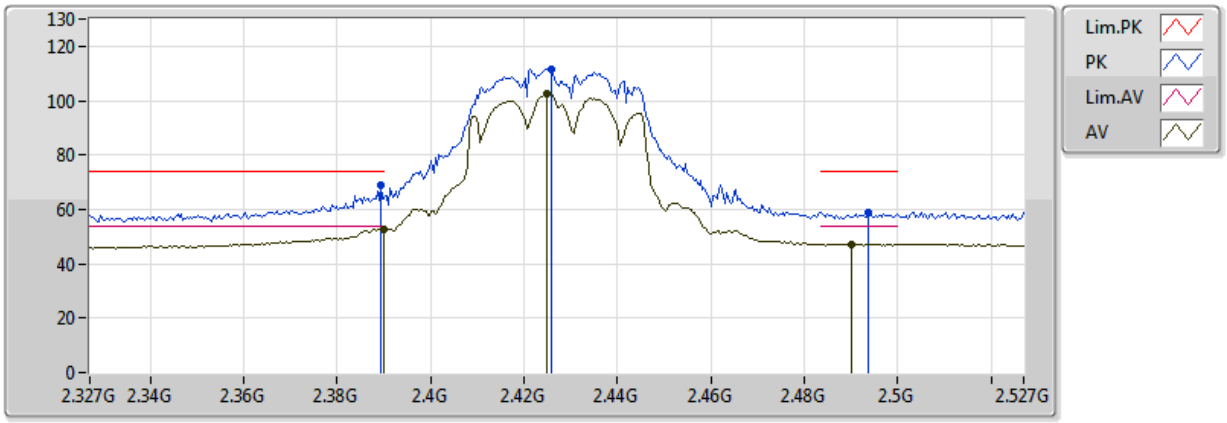


20171212
EUT Z_3TX
Setting 21
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	52.99	54.00	-1.01	33.16	3	Vertical	126	1.01
AV	2.4286G	104.11	Inf	-Inf	33.18	3	Vertical	126	1.01
AV	2.4882G	47.40	54.00	-6.60	33.19	3	Vertical	126	1.01
PK	2.3894G	65.52	74.00	-8.48	33.16	3	Vertical	126	1.01
PK	2.429G	112.78	Inf	-Inf	33.18	3	Vertical	126	1.01
PK	2.4854G	60.09	74.00	-13.91	33.19	3	Vertical	126	1.01

802.11n HT40_Nss1,(MCS0)_3TX

2427MHz_TX

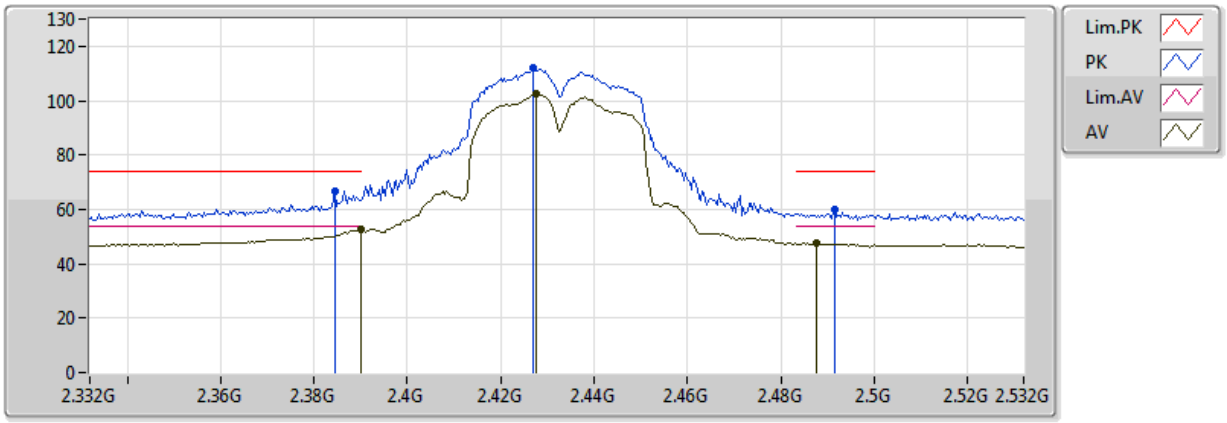


20171212
EUT Z_3TX
Setting 21
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	52.92	54.00	-1.08	33.16	3	Horizontal	168	2.77
AV	2.425G	102.69	Inf	-Inf	33.17	3	Horizontal	168	2.77
AV	2.4902G	47.27	54.00	-6.73	33.19	3	Horizontal	168	2.77
PK	2.3894G	69.02	74.00	-4.98	33.16	3	Horizontal	168	2.77
PK	2.4258G	111.50	Inf	-Inf	33.18	3	Horizontal	168	2.77
PK	2.4938G	58.82	74.00	-15.18	33.19	3	Horizontal	168	2.77

802.11n HT40_Nss1,(MCS0)_3TX

2432MHz_TX

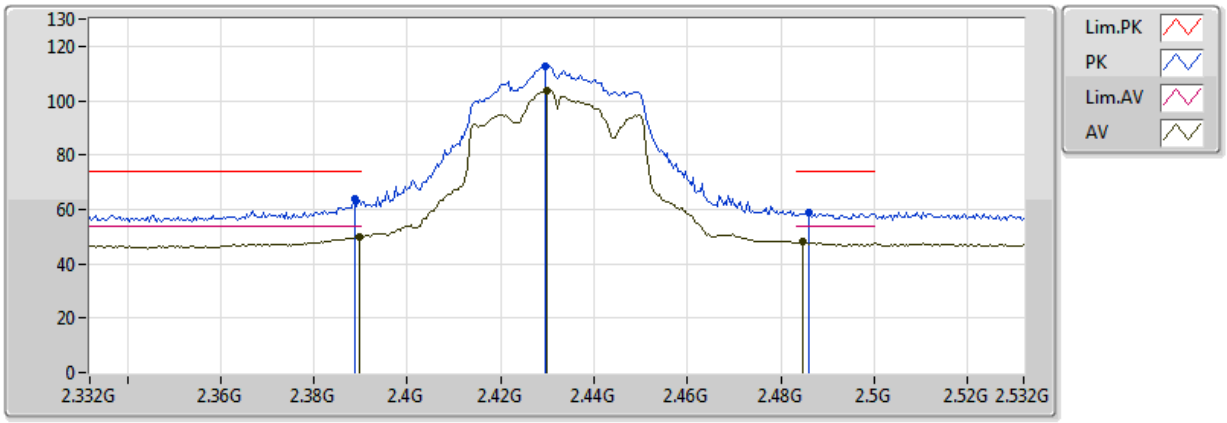


20171212
EUT Z_3TX
Setting 22
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	52.53	54.00	-1.47	33.16	3	Vertical	62	1.70
AV	2.4276G	102.37	Inf	-Inf	33.18	3	Vertical	62	1.70
AV	2.4876G	47.74	54.00	-6.26	33.19	3	Vertical	62	1.70
PK	2.3844G	66.52	74.00	-7.48	33.16	3	Vertical	62	1.70
PK	2.4268G	112.18	Inf	-Inf	33.18	3	Vertical	62	1.70
PK	2.4916G	59.71	74.00	-14.29	33.19	3	Vertical	62	1.70

802.11n HT40_Nss1,(MCS0)_3TX

2432MHz_TX

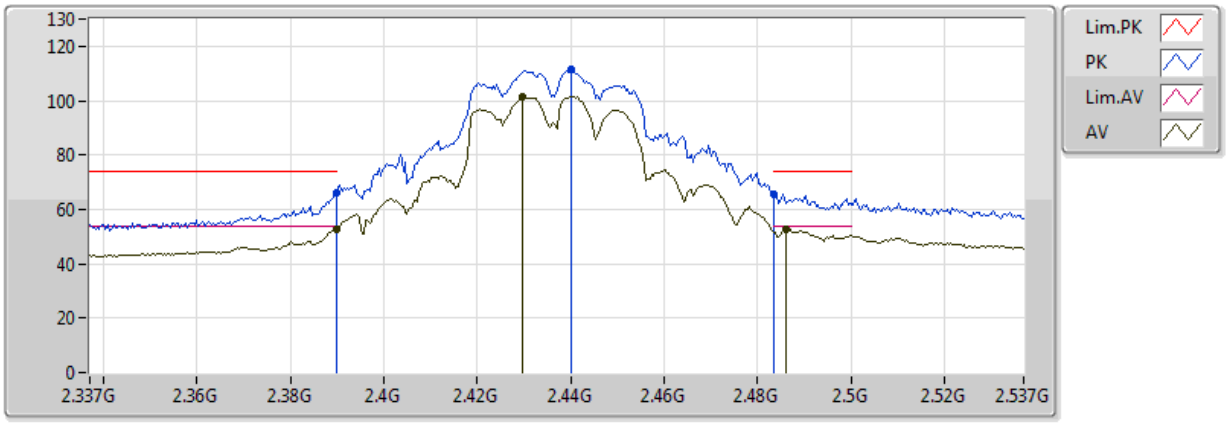


20171212
EUT Z_3TX
Setting 22
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3896G	50.10	54.00	-3.90	33.16	3	Horizontal	309	2.55
AV	2.43G	103.85	Inf	-Inf	33.18	3	Horizontal	309	2.55
AV	2.4848G	47.91	54.00	-6.09	33.19	3	Horizontal	309	2.55
PK	2.3888G	63.67	74.00	-10.33	33.16	3	Horizontal	309	2.55
PK	2.4296G	112.87	Inf	-Inf	33.18	3	Horizontal	309	2.55
PK	2.486G	59.07	74.00	-14.93	33.19	3	Horizontal	309	2.55

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX

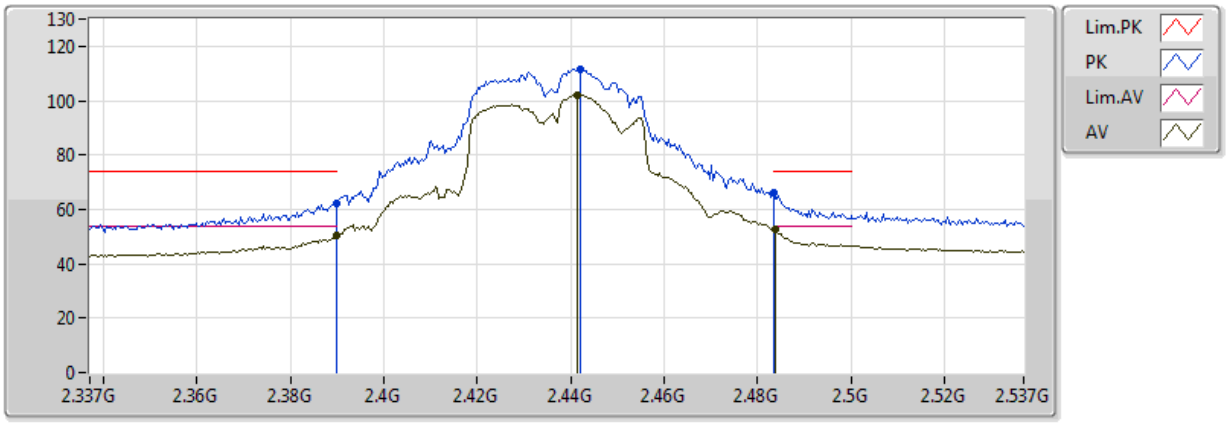


20171208
EUT Z_3TX
Setting 23.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	52.92	54.00	-1.08	29.93	3	Vertical	153	1.34
AV	2.4298G	101.60	Inf	-Inf	30.14	3	Vertical	153	1.34
AV	2.4862G	52.80	54.00	-1.20	30.53	3	Vertical	153	1.34
PK	2.389998G	66.37	74.00	-7.63	29.93	3	Vertical	153	1.34
PK	2.4402G	111.27	Inf	-Inf	30.21	3	Vertical	153	1.34
PK	2.483502G	65.81	74.00	-8.19	30.51	3	Vertical	153	1.34

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX

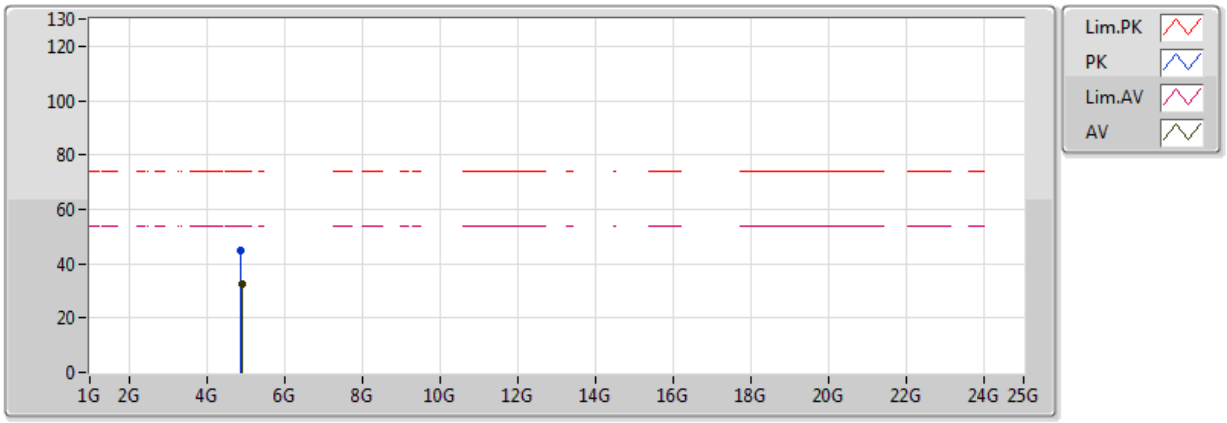


20171208
EUT Z_3TX
Setting 23.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.389998G	50.49	54.00	-3.51	29.93	3	Horizontal	235	2.99
AV	2.4414G	102.11	Inf	-Inf	30.22	3	Horizontal	235	2.99
AV	2.4838G	52.57	54.00	-1.43	30.51	3	Horizontal	235	2.99
PK	2.389998G	62.22	74.00	-11.78	29.93	3	Horizontal	235	2.99
PK	2.4422G	111.69	Inf	-Inf	30.23	3	Horizontal	235	2.99
PK	2.483502G	66.07	74.00	-7.93	30.51	3	Horizontal	235	2.99

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX



20171208
EUT Z_3TX
Setting 23.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.897G	32.46	54.00	-21.54	4.34	3	Vertical	207	2.03
PK	4.8841G	44.79	74.00	-29.21	4.29	3	Vertical	207	2.03

802.11n HT40_Nss1,(MCS0)_3TX

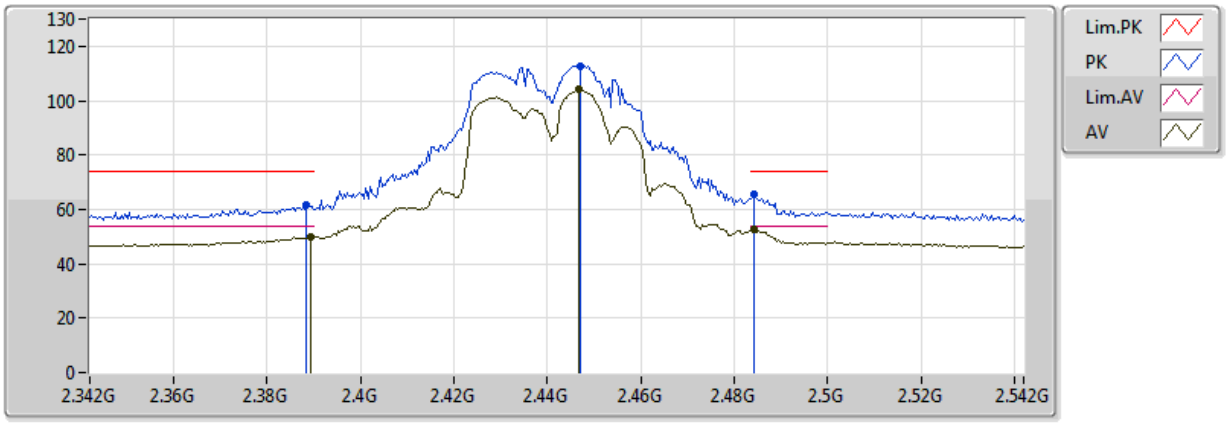
2437MHz_TX

20171208
EUT Z_3TX
Setting 23.5
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.8954G	32.49	54.00	-21.51	4.33	3	Horizontal	319	1.59
PK	4.8868G	44.30	74.00	-29.70	4.30	3	Horizontal	319	1.59

802.11n HT40_Nss1,(MCS0)_3TX

2442MHz_TX

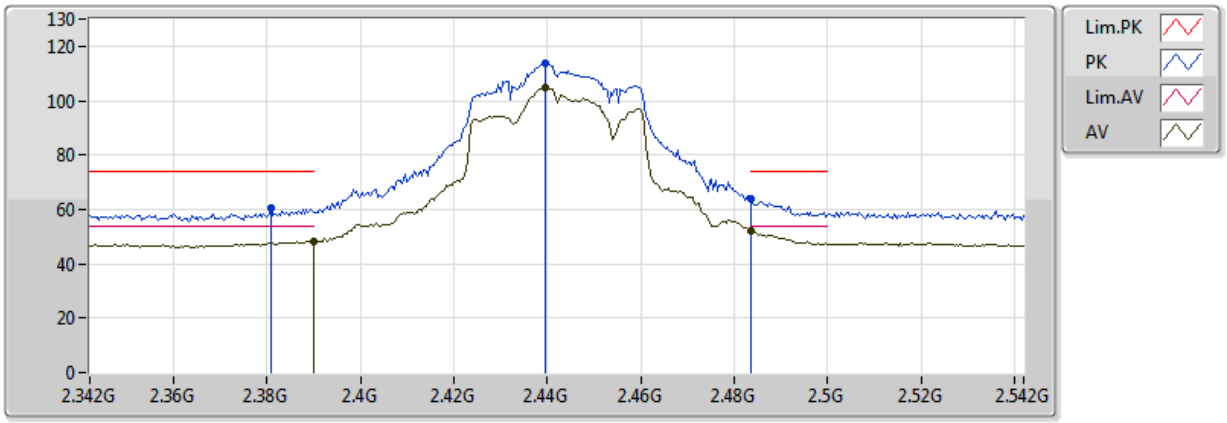


20171212
EUT Z_3TX
Setting 21.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3892G	49.61	54.00	-4.39	33.16	3	Vertical	89	2.30
AV	2.4468G	104.00	Inf	-Inf	33.18	3	Vertical	89	2.30
AV	2.4844G	52.64	54.00	-1.36	33.19	3	Vertical	89	2.30
PK	2.3884G	61.43	74.00	-12.57	33.16	3	Vertical	89	2.30
PK	2.4472G	112.86	Inf	-Inf	33.18	3	Vertical	89	2.30
PK	2.4844G	65.62	74.00	-8.38	33.19	3	Vertical	89	2.30

802.11n HT40_Nss1,(MCS0)_3TX

2442MHz_TX

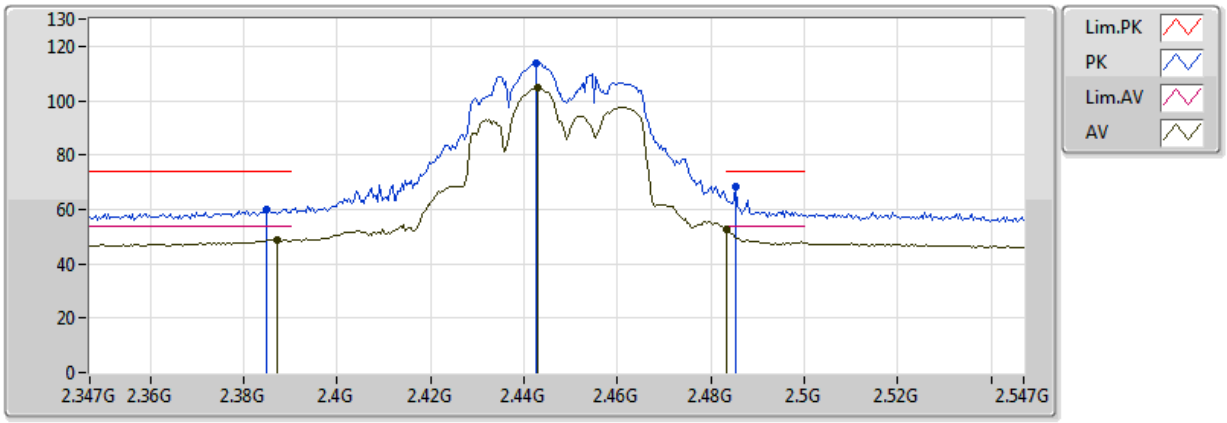


20171212
EUT Z_3TX
Setting 21.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.39G	48.34	54.00	-5.66	33.16	3	Horizontal	308	2.77
AV	2.4396G	104.70	Inf	-Inf	33.18	3	Horizontal	308	2.77
AV	2.4836G	51.97	54.00	-2.03	33.19	3	Horizontal	308	2.77
PK	2.3808G	60.64	74.00	-13.36	33.16	3	Horizontal	308	2.77
PK	2.4396G	113.82	Inf	-Inf	33.18	3	Horizontal	308	2.77
PK	2.4836G	63.76	74.00	-10.24	33.19	3	Horizontal	308	2.77

802.11n HT40_Nss1,(MCS0)_3TX

2447MHz_TX

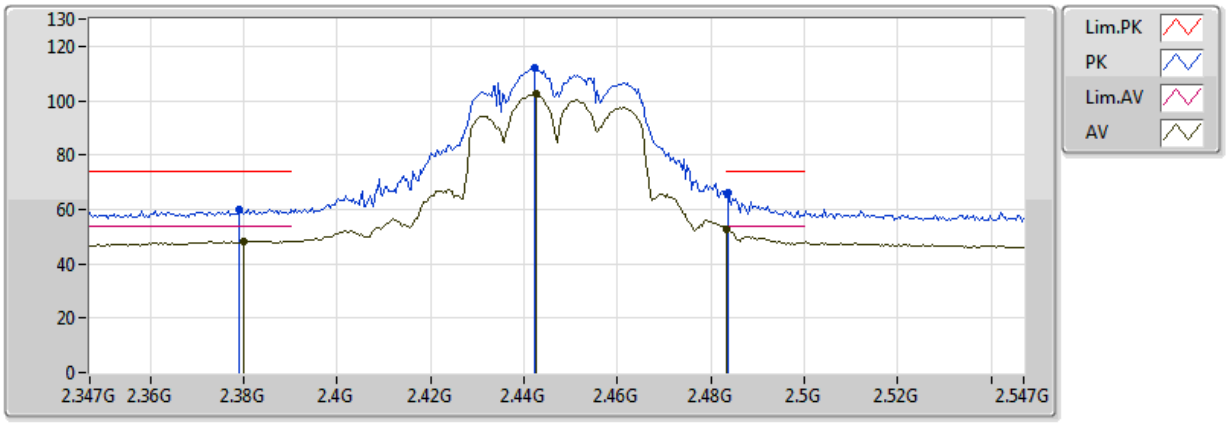


20171212
EUT Z_3TX
Setting 20.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.387G	48.87	54.00	-5.13	33.16	3	Vertical	94	2.33
AV	2.443G	104.65	Inf	-Inf	33.18	3	Vertical	94	2.33
AV	2.483502G	52.90	54.00	-1.10	33.19	3	Vertical	94	2.33
PK	2.385G	60.00	74.00	-14.00	33.16	3	Vertical	94	2.33
PK	2.4426G	113.71	Inf	-Inf	33.18	3	Vertical	94	2.33
PK	2.4854G	68.16	74.00	-5.84	33.19	3	Vertical	94	2.33

802.11n HT40_Nss1,(MCS0)_3TX

2447MHz_TX

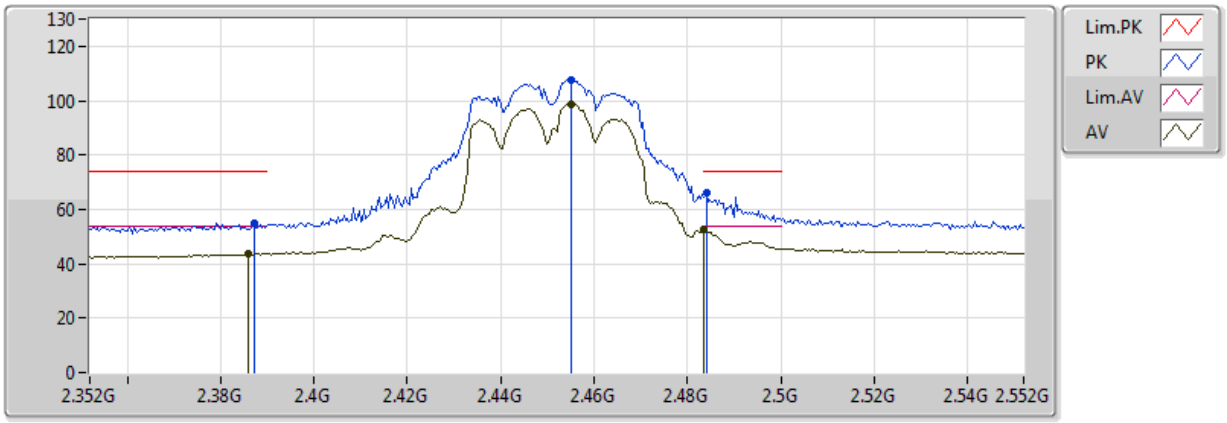


20171212
EUT Z_3TX
Setting 20.5
04-R-2
FSP(100056)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.3798G	48.31	54.00	-5.69	33.16	3	Horizontal	180	2.93
AV	2.4426G	102.51	Inf	-Inf	33.18	3	Horizontal	180	2.93
AV	2.483502G	52.79	54.00	-1.21	33.19	3	Horizontal	180	2.93
PK	2.379G	59.93	74.00	-14.07	33.16	3	Horizontal	180	2.93
PK	2.4422G	111.84	Inf	-Inf	33.18	3	Horizontal	180	2.93
PK	2.4838G	66.03	74.00	-7.97	33.19	3	Horizontal	180	2.93

802.11n HT40_Nss1,(MCS0)_3TX

2452MHz_TX

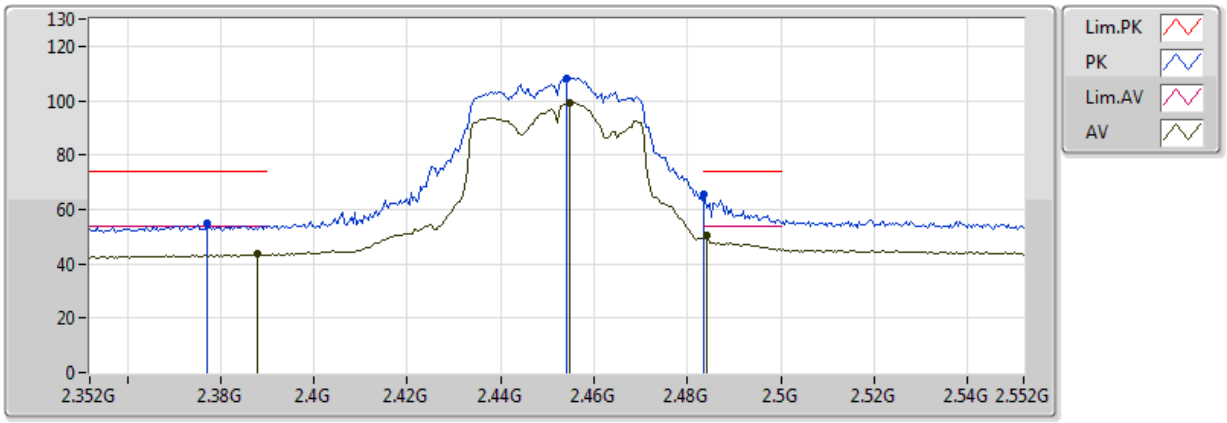


20171208
EUT Z_3TX
Setting 20
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.386G	43.77	54.00	-10.23	29.93	3	Vertical	154	1.29
AV	2.4552G	98.68	Inf	-Inf	30.32	3	Vertical	154	1.29
AV	2.4836G	52.59	54.00	-1.41	30.51	3	Vertical	154	1.29
PK	2.3872G	55.06	74.00	-18.94	29.93	3	Vertical	154	1.29
PK	2.4552G	107.48	Inf	-Inf	30.32	3	Vertical	154	1.29
PK	2.484G	66.36	74.00	-7.64	30.51	3	Vertical	154	1.29

802.11n HT40_Nss1,(MCS0)_3TX

2452MHz_TX



20171208
EUT Z_3TX
Setting 20
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	2.388G	43.50	54.00	-10.50	29.93	3	Horizontal	225	2.98
AV	2.4548G	99.22	Inf	-Inf	30.31	3	Horizontal	225	2.98
AV	2.484G	50.16	54.00	-3.84	30.51	3	Horizontal	225	2.98
PK	2.3772G	54.81	74.00	-19.19	29.92	3	Horizontal	225	2.98
PK	2.454G	108.34	Inf	-Inf	30.31	3	Horizontal	225	2.98
PK	2.4836G	65.55	74.00	-8.45	30.51	3	Horizontal	225	2.98

802.11n HT40_Nss1,(MCS0)_3TX

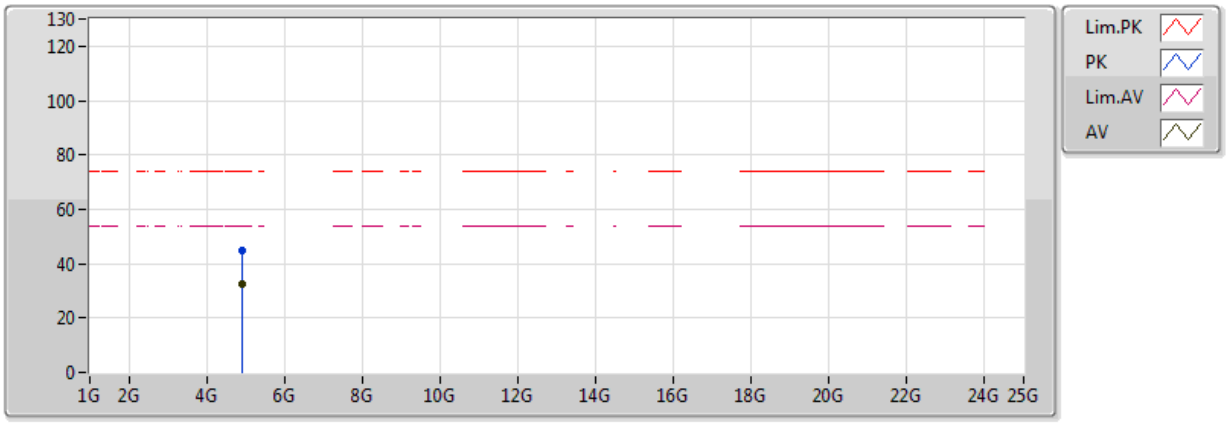
2452MHz_TX

20171208
EUT Z_3TX
Setting 20
05-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.90162G	32.71	54.00	-21.29	4.36	3	Vertical	43	2.14
PK	4.90054G	45.22	74.00	-28.78	4.35	3	Vertical	43	2.14

802.11n HT40_Nss1,(MCS0)_3TX

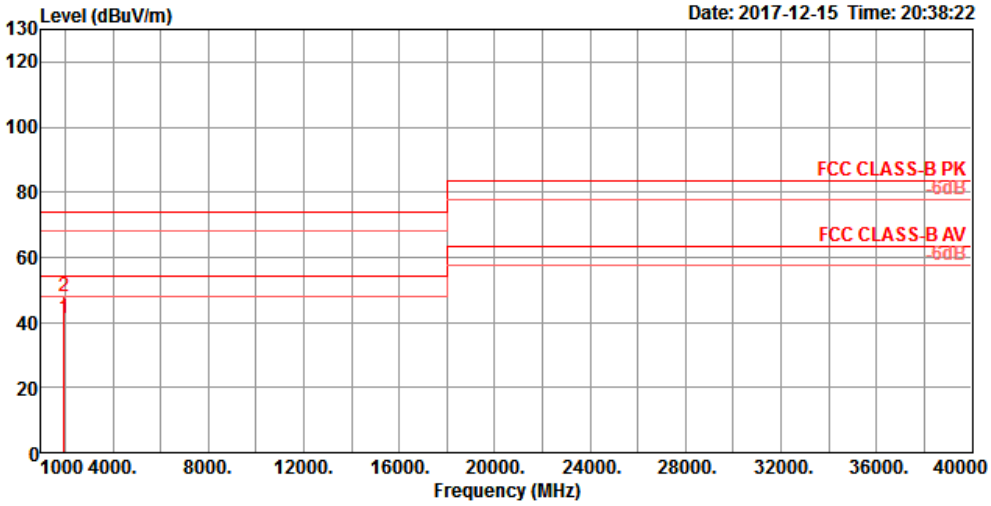
2452MHz_TX



20171208
EUT Z_3TX
Setting 20
05-C-5
FSP

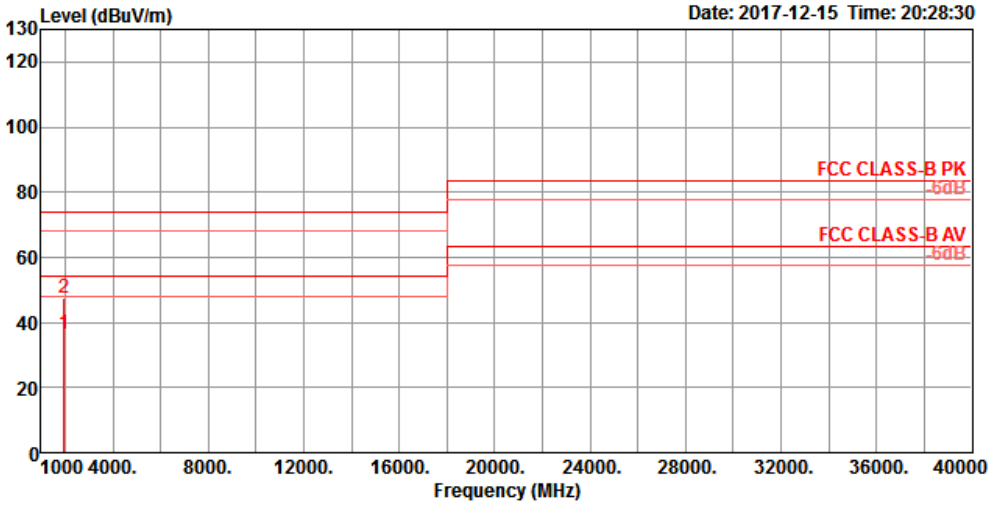
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)
AV	4.90726G	32.54	54.00	-21.46	4.38	3	Horizontal	325	1.19
PK	4.90472G	44.95	74.00	-29.05	4.37	3	Horizontal	325	1.19

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	1949.98	41.22	54.00	-12.78	45.89	4.30	28.41	37.38	100	175	Average	HORIZONTAL
2	1950.14	47.90	74.00	-26.10	52.57	4.30	28.41	37.38	100	175	Peak	HORIZONTAL

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1950.10	36.57	54.00	-17.43	41.24	4.30	28.41	37.38	100	280	Average	VERTICAL
2	1950.24	47.33	74.00	-26.67	52.00	4.30	28.41	37.38	100	280	Peak	VERTICAL