



FCC Test Report

Equipment : Wireless LAN Network Module
Brand Name : Arcadyan
Model No. : WN9711BTAAC-YA
FCC ID : RAXWN9711
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan

The product sample received on Jun. 05, 2017 and completely tested on Nov. 30, 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.





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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(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



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	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

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

Set	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	ACON	AEMEE-10000	Dipole Antenna	Reversed-SMA	3.24	4.54
	2	ACON	AEMEE-10000	Dipole Antenna	Reversed-SMA	3.24	4.54
Set	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
2	3	ACON	AEP6P-100009	PIFA Antenna	I-PEX	3.15	3.15
	4	ACON	AEP6P-100010	PIFA Antenna	I-PEX	2.30	3.15

Dipole Cable	Brand	Model Name	Cable Length (mm)	Cable Loss (dB)		True Gain (dBi)	
				2.4GHz / BT	5GHz	2.4GHz / BT	5GHz
1	ACON	AEC8P-1000000 (Gray)	30	0.08	0.12	3.16	4.42
		AEC8P-1000001 (Black)					
2	ACON	AEC8P-1000002 (Gray)	50	0.13	0.19	3.11	4.35
		AEC8P-1000003 (Black)					
3	ACON	AEC8P-1000004 (Gray)	70	0.19	0.27	3.05	4.27
		AEC8P-1000005 (Black)					
4	ACON	AEC8P-1000006 (Gray)	90	0.24	0.35	3.00	4.19
		AEC8P-1000007 (Black)					
5	ACON	AEC8P-1000008 (Gray)	120	0.32	0.46	2.92	4.08
		AEC8P-1000009 (Black)					
6	ACON	AEC8P-1000010 (Gray)	160	0.43	0.62	2.81	3.92
		AEC8P-1000011 (Black)					
7	ACON	AEC8P-1000012 (Gray)	200	0.54	0.77	2.70	3.77
		AEC8P-1000013 (Black)					
8	ACON	AEC8P-1000014 (Gray)	240	0.64	0.93	2.60	3.61
		AEC8P-1000015 (Black)					
9	ACON	AEC8P-1000016 (Gray)	280	0.75	1.08	2.49	3.46
		AEC8P-1000017 (Black)					
10	ACON	AEC8P-1000018 (Gray)	320	0.86	1.24	2.38	3.30
		AEC8P-1000019 (Black)					
11	ACON	AEC8P-1000020 (Gray)	360	0.96	1.39	2.28	3.15
		AEC8P-1000021 (Black)					
12	ACON	AEC8P-1000022 (Gray)	400	1.07	1.54	2.17	3.00
		AEC8P-1000023 (Black)					

Dipole Cable	Brand	Model Name	Cable Length (mm)	Cable Loss (dB)		True Gain (dBi)	
				2.4GHz / BT	5GHz	2.4GHz / BT	5GHz
13	ACON	AEC8P-1000024 (Gray) AEC8P-1000025 (Black)	450	1.21	1.74	2.03	2.80
14	ACON	AEC8P-1000026 (Gray) AEC8P-1000027 (Black)	500	1.34	1.93	1.90	2.61
PIFA Cable	Brand	Model Name	Cable Length (mm)	True Gain (dBi)			
				2.4GHz / BT		5GHz	
15	ACON	AEP6P-100009 (Black)	300	3.15		3.15	
		AEP6P-100010 (Gray)	400	2.30		3.15	

Note: The EUT has two radios, Radio 1 supports WLAN 2.4GHz, WLAN 5GHz and Bluetooth function, Radio 2 supports WLAN 5GHz function only.

The EUT has two sets of antenna and there are two antennas for each set.

Dipole Antenna collocate with 14 set cable selling, only the higher gain antenna “cable 1” was tested and recorded in the report.

PIFA Antenna collocate with 1 set cable selling.

For Radio 1 (WLAN 2.4GHz, WLAN 5GHz and Bluetooth):

For IEEE 802.11a/b/g/n/ac mode (1TX/1RX):

Dipole Antenna: Only Ant. 1 (Port 1) can be used as transmitting/receiving antenna.

PIFA Antenna: Only Ant. 3 (Port 1) can be used as transmitting/receiving antenna.

For Radio 2 (WLAN 5GHz):

For IEEE 802.11a/n/ac mode (1TX/1RX):

Dipole Antenna: Only Ant. 2 (Port 1) can be used as transmitting/receiving antenna.

PIFA Antenna: Only Ant. 4 (Port 1) can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.936	0.287	12.42m	100
802.11g	0.943	0.255	2.065m	1k
802.11n HT20	0.945	0.246	1.918m	1k
802.11n HT40	0.89	0.506	940u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	

Note: The EUT supports Master mode and Slave without radar detection mode.



1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR770523AA

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
<ol style="list-style-type: none"> 1. Adding a CPU shielding frame. 2. Adding a CPU shielding cover. 3. Adding a Thermal pad on CPU. 	<p>For Dipole Antenna necessary to evaluated as below:</p> <ol style="list-style-type: none"> 1. Emissions in Restricted Frequency Bands Below 1GHz. 2. Emissions in Restricted Frequency Bands Above 1GHz for 802.11b 2437 MHz only, and it is max power channel of original test report. (The test results are based on original output power to re-test.). <p>For PIFA Antenna necessary to evaluated as below:</p> <ol style="list-style-type: none"> 1. AC Power-line Conducted Emissions. 2. Emissions in Restricted Frequency Bands. 3. Simultaneous Transmission Analysis - Radiated Emission Co-location.
<ol style="list-style-type: none"> 4. Adding one set PIFA antennas. 	<ol style="list-style-type: none"> 1. AC Power-line Conducted Emissions. 2. Emissions in Restricted Frequency Bands. 3. Simultaneous Transmission Analysis - Radiated Emission Co-location.
<ol style="list-style-type: none"> 5. Adding master mode in band 2~band 3 (5250~5350 MHz, 5470~5725 MHz). 	<p>It doesn't need to verify RF test.</p>

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		
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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
Radiated	03CH01-CB (below 1GHz)	Joy Tseng	23°C / 55%	Jul. 28, 2017, Nov. 23, 2017
Radiated	03CH01-CB (above1GHz)	Joy Tseng	23°C / 55%	Nov. 23, 2017~Nov. 30, 2017
AC Conduction	CO01-CB	Tony Chang	22°C / 52%	Nov. 27, 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%

2 Test Configuration of EUT

2.1 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
According to the original test report, Slave mode - Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz) has been evaluated to be the worst case. So the measurement will follow this same test configuration.	
1	Slave mode - Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna

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
According to the original test report, EUT in Z axis AP Mode - Radio 1 (2.4GHz+Bluetooth)+ Radio 2 (5GHz) has been evaluated to be the worst case. So the measurement will follow this same test configuration.	
1	EUT in Z axis Slave Mode - Radio 1 (2.4GHz+Bluetooth)+ Radio 2 (5GHz) with Dipole antenna
2	EUT in Z axis AP Mode - Radio 1 (2.4GHz+Bluetooth)+ Radio 2 (5GHz) with PIFA antenna
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
1	EUT in Z axis with Dipole antenna
2	EUT in Z axis with PIFA antenna



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT X axis - Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
2	EUT Y axis - Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
3	EUT Z axis - Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
4	EUT X axis - Radio 1 (5GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
5	EUT Y axis - Radio 1 (5GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
6	EUT Z axis - Radio 1 (5GHz + Bluetooth) + Radio 2 (5GHz) with PIFA antenna
For operating mode 2 and mode 5 are the worst case and it was record in this test report.	
Refer to Appendix D 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	Radio 1 (2.4GHz + Bluetooth) + Radio 2 (5GHz)
2	Radio 1 (5GHz + Bluetooth) + Radio 2 (5GHz)
Refer to Sporton Test Report No.: FA770523-01 for Co-location RF Exposure Evaluation.	

2.2 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.



2.3 Accessories

N/A

2.4 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	Bluetooth Speaker	MARUS	MSK06C-RD	DoC
3	AP Router	ASUS	DSL-AC68U	DoC
4	AP Router	Planex	GW-AP54SGX	KA220030603014-1
5	Fixture	Arcadyan	WN9711BTAAC Test jig	N/A

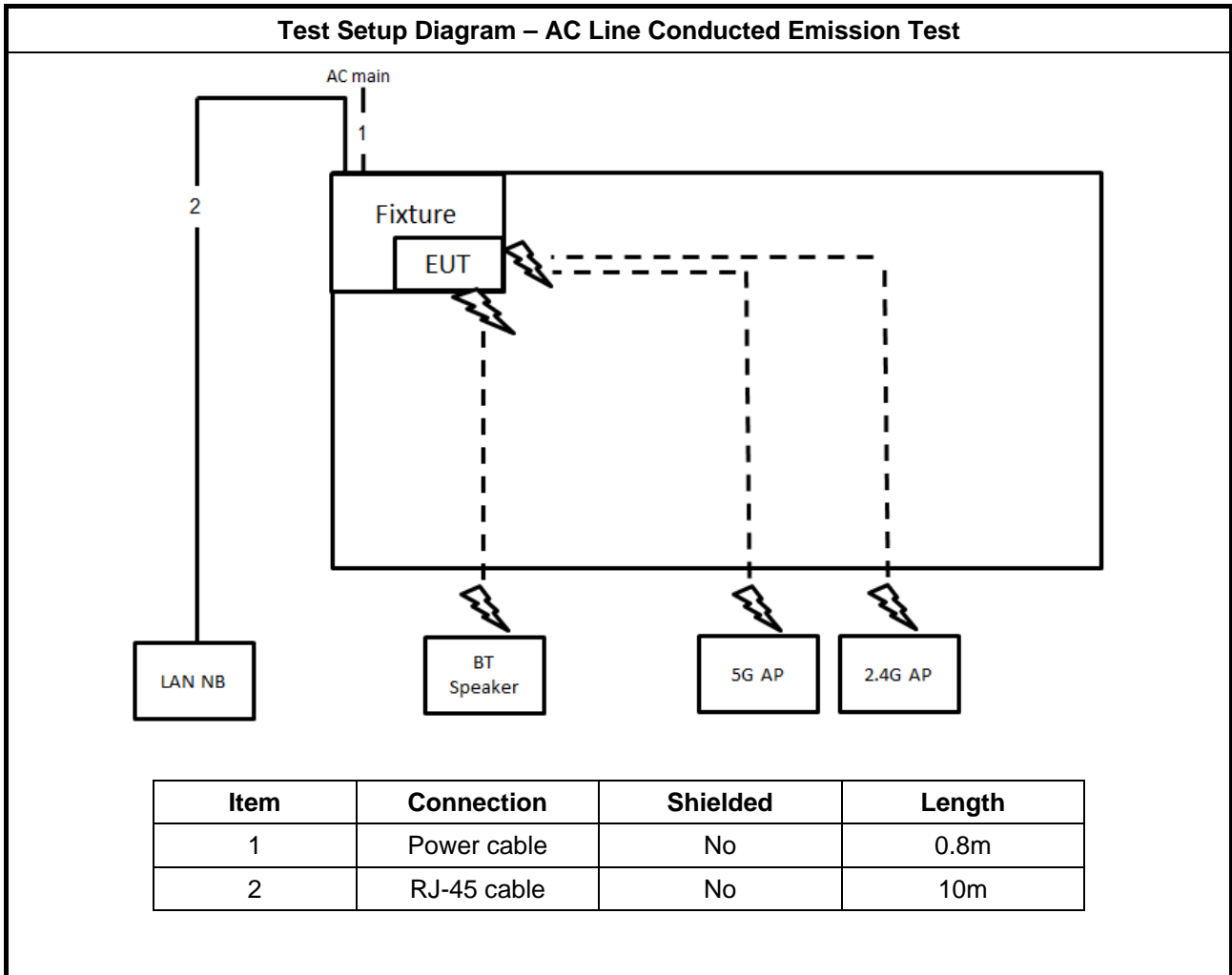
For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	Bluetooth Speaker	MARUS	MSK06C-RD	DoC
4	Fixture	Arcadyan	WN9711BTAAC Test jig	N/A

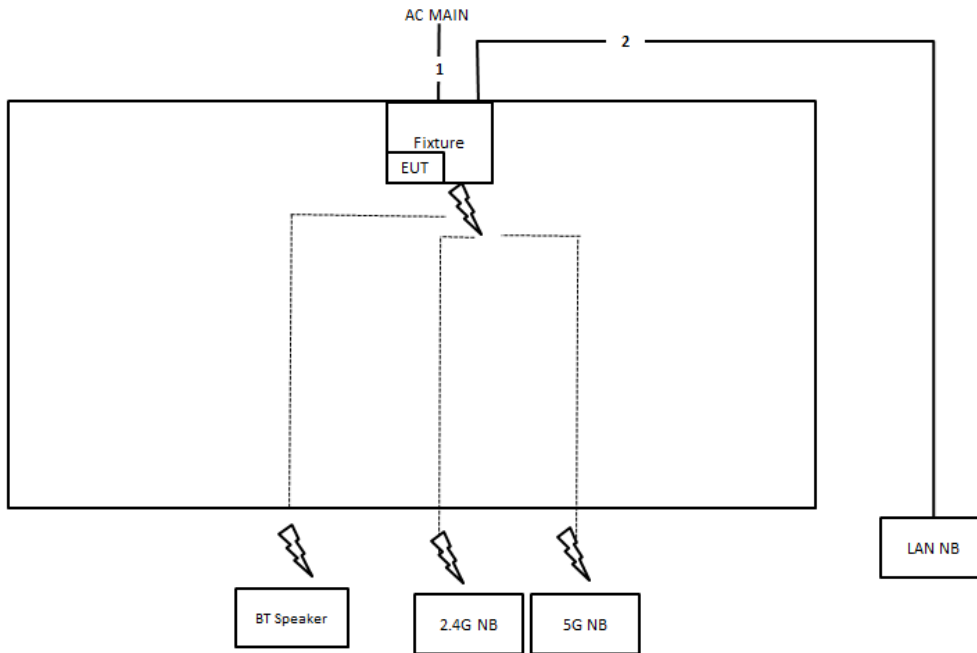
For Test Site No: 03CH01-CB (above 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Fixture	Arcadyan	WN9711BTAAC Test jig	N/A

2.5 Test Setup Diagram

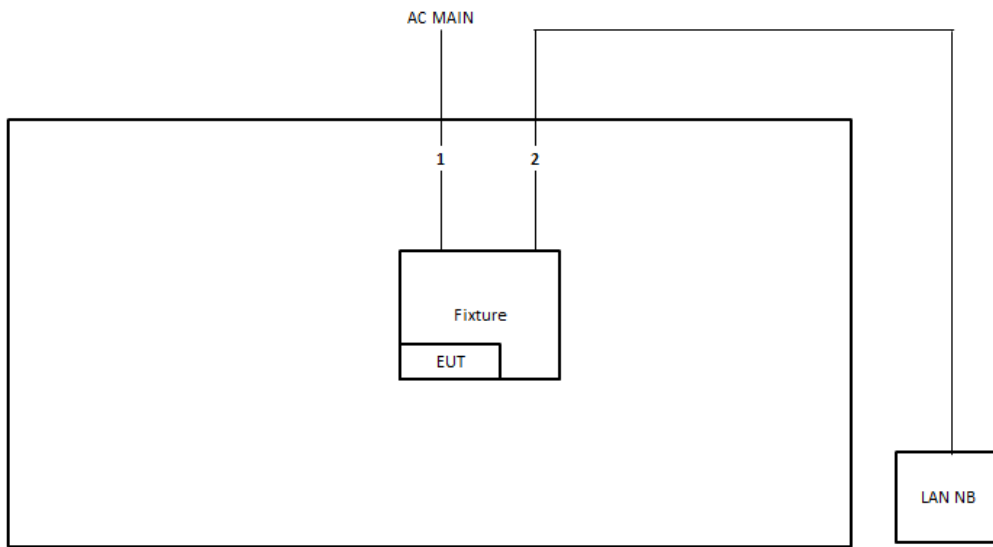


Test Setup Diagram - Radiated Test < 1GHz



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

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

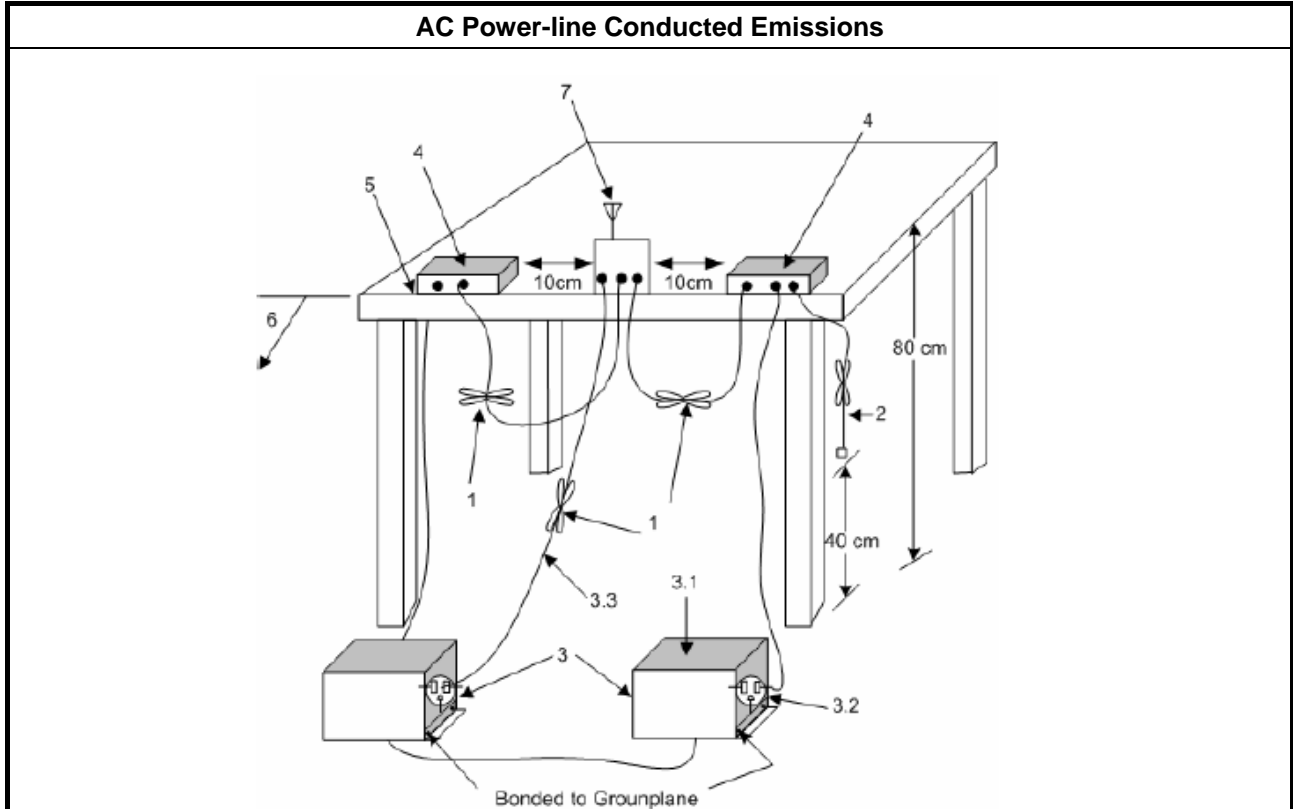
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix B



3.2 Emissions in Restricted Frequency Bands

3.2.1 Emissions in Restricted Frequency Bands Limit

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

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

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

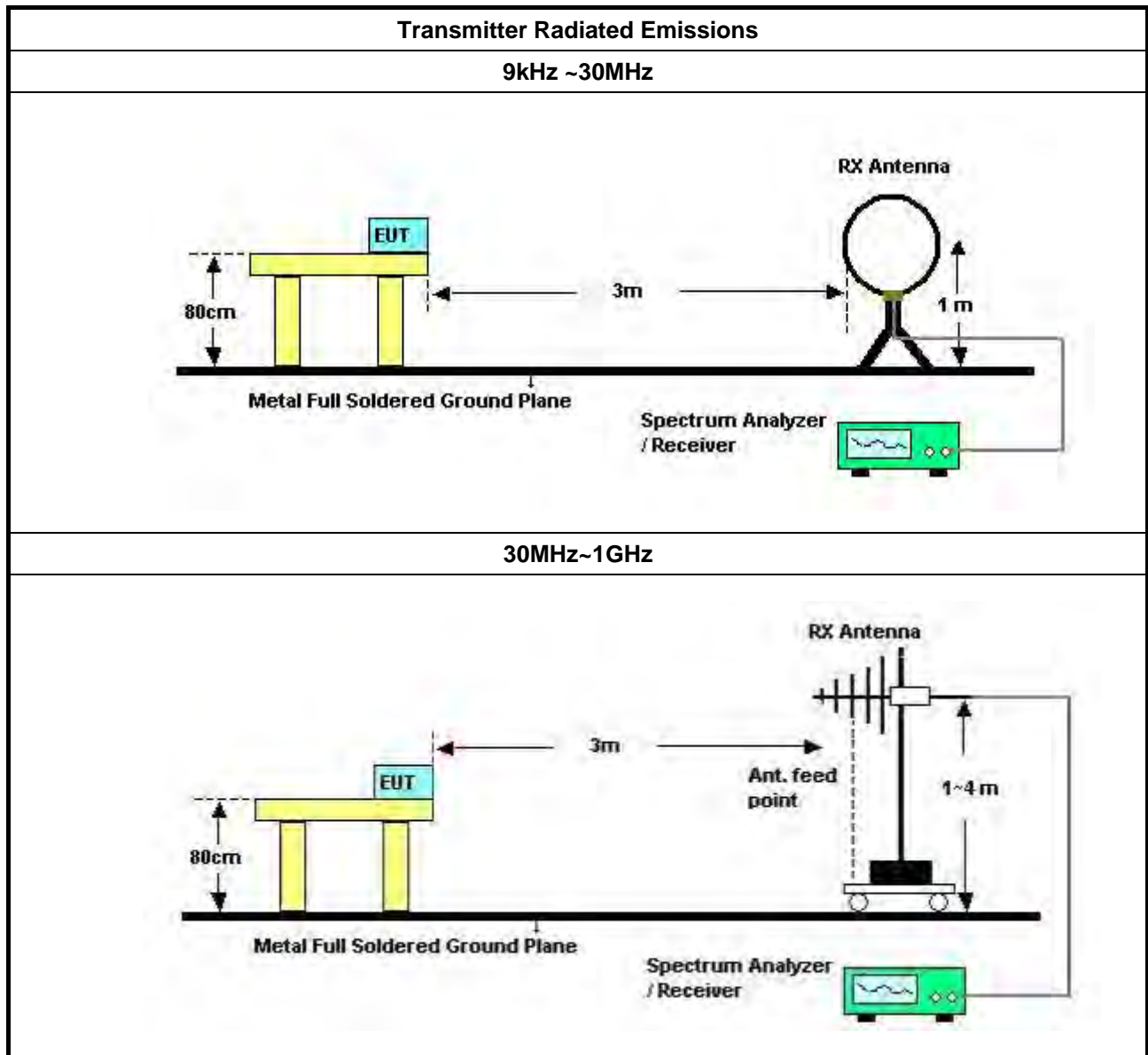
3.2.2 Measuring Instruments

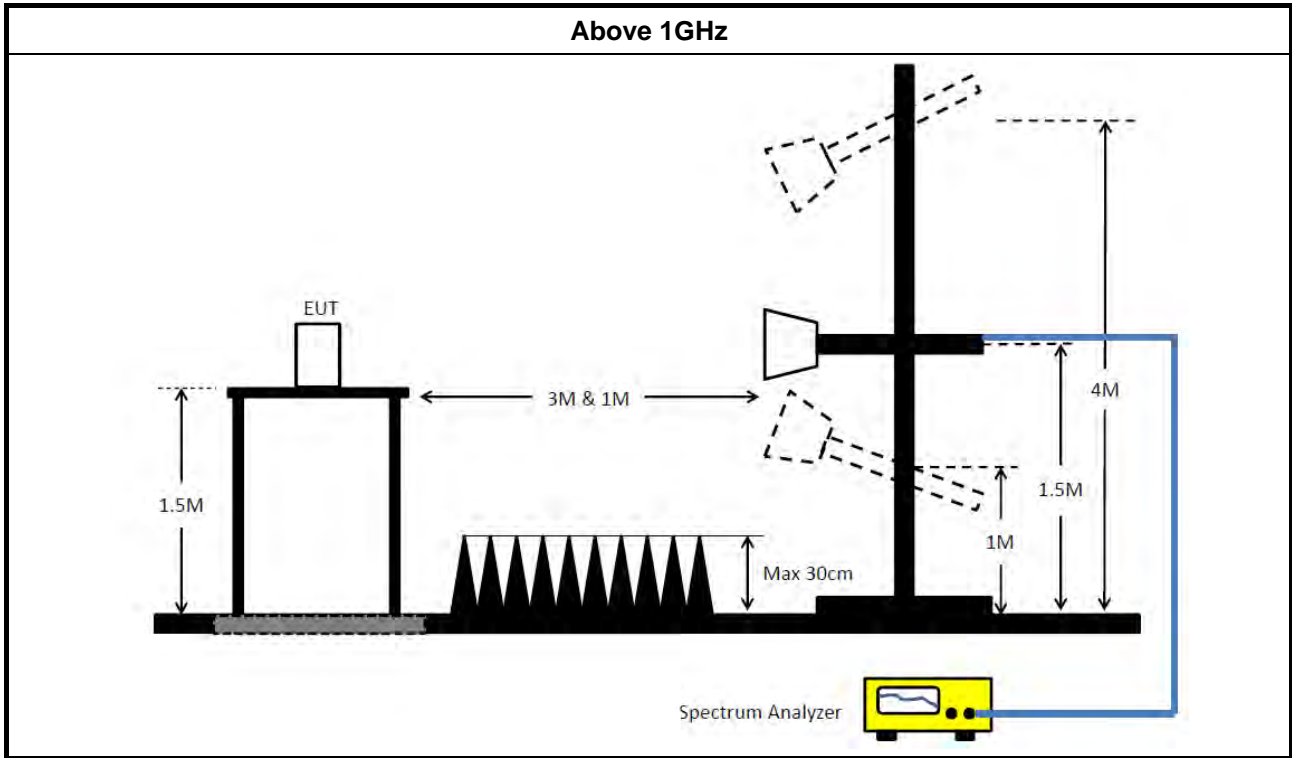
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle \geq 98%)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ 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.

3.2.4 Test Setup





3.2.5 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.

3.2.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix C



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMC I	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Aug. 29, 2017	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMC I	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. 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-HG	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. 24, 2016	Oct. 23, 2017	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)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-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

Appendix B

AC Power-line Conducted Emissions Result																																																																																																																																															
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AC Power-line Conducted Emissions Result

Appendix B

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RSE below 1GHz Result

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RSE below 1GHz Result

Appendix C.1

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RSE below 1GHz Result

Appendix C.1

RSE below 1GHz Result																																																																																															
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Operating Function	Normal Link																																																																																														
<p>The graph displays the RSE below 1GHz result. The y-axis represents Level (dBuV/m) from 0 to 100, and the x-axis represents Frequency (MHz) from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 54 dBuV/m from 30 to 100 MHz, 43.5 dBuV/m from 100 to 200 MHz, and 46 dBuV/m from 200 to 1000 MHz. The blue line shows the measured emission levels, with six peaks labeled 1 through 6. Peak 1 is at 54.25 MHz, peak 2 at 71.71 MHz, peak 3 at 125.06 MHz, peak 4 at 150.28 MHz, peak 5 at 638.19 MHz, and peak 6 at 800.18 MHz. All peaks are below the FCC CLASS-B limit.</p>																																																																																															
	<table border="1"> <thead> <tr> <th>Peak</th> <th>Freq (MHz)</th> <th>Level (dBuV/m)</th> <th>Limit Line (dBuV/m)</th> <th>Over Limit (dB)</th> <th>Read Level (dBuV)</th> <th>CableAntenna Loss (dB)</th> <th>Preamp Factor (dB/m)</th> <th>A/Pos (dB)</th> <th>T/Pos (cm)</th> <th>Remark</th> <th>Pol/Phase</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>54.25</td> <td>30.56</td> <td>40.00</td> <td>-9.44</td> <td>47.79</td> <td>1.32</td> <td>13.87</td> <td>32.42</td> <td>100</td> <td>299 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>71.71</td> <td>28.41</td> <td>40.00</td> <td>-11.59</td> <td>47.17</td> <td>0.89</td> <td>12.75</td> <td>32.40</td> <td>200</td> <td>301 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>125.06</td> <td>29.93</td> <td>43.50</td> <td>-13.57</td> <td>42.54</td> <td>1.15</td> <td>18.60</td> <td>32.36</td> <td>150</td> <td>204 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>150.28</td> <td>32.12</td> <td>43.50</td> <td>-11.38</td> <td>46.50</td> <td>1.08</td> <td>16.88</td> <td>32.34</td> <td>150</td> <td>54 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>638.19</td> <td>32.08</td> <td>46.00</td> <td>-13.92</td> <td>35.95</td> <td>3.22</td> <td>25.29</td> <td>32.38</td> <td>100</td> <td>282 Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>800.18</td> <td>40.27</td> <td>46.00</td> <td>-5.73</td> <td>42.28</td> <td>3.51</td> <td>26.60</td> <td>32.12</td> <td>100</td> <td>183 Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Peak	Freq (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Read Level (dBuV)	CableAntenna Loss (dB)	Preamp Factor (dB/m)	A/Pos (dB)	T/Pos (cm)	Remark	Pol/Phase	1	54.25	30.56	40.00	-9.44	47.79	1.32	13.87	32.42	100	299 Peak	HORIZONTAL	2	71.71	28.41	40.00	-11.59	47.17	0.89	12.75	32.40	200	301 Peak	HORIZONTAL	3	125.06	29.93	43.50	-13.57	42.54	1.15	18.60	32.36	150	204 Peak	HORIZONTAL	4	150.28	32.12	43.50	-11.38	46.50	1.08	16.88	32.34	150	54 Peak	HORIZONTAL	5	638.19	32.08	46.00	-13.92	35.95	3.22	25.29	32.38	100	282 Peak	HORIZONTAL	6	800.18	40.27	46.00	-5.73	42.28	3.51	26.60	32.12	100	183 Peak	HORIZONTAL										
Peak	Freq (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Read Level (dBuV)	CableAntenna Loss (dB)	Preamp Factor (dB/m)	A/Pos (dB)	T/Pos (cm)	Remark	Pol/Phase																																																																																				
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RSE below 1GHz Result

Appendix C.1

RSE below 1GHz Result											
Operating Mode	2	Polarization	Vertical								
Operating Function	Normal Link										
<p>The graph displays the RSE below 1GHz result. The y-axis represents Level (dBuV/m) from 0 to 100, and the x-axis represents Frequency (MHz) from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 30 dBuV/m from 100 MHz to 200 MHz, and 40 dBuV/m from 200 MHz to 1000 MHz. A blue line shows the measured emission levels. Several peaks are marked with red vertical lines and numbered 1 through 6. Peak 1 is at 39.70 MHz, peak 2 at 53.28 MHz, peak 3 at 61.04 MHz, peak 4 at 72.68 MHz, peak 5 at 143.49 MHz, and peak 6 at 800.18 MHz. The level of peak 6 is 39.92 dBuV/m, which is below the 40 dBuV/m limit.</p>											
	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	39.70	36.01	40.00	-3.99	47.34	1.15	19.95	32.43	100	224 Peak	VERTICAL
2	53.28	36.00	40.00	-4.00	53.00	1.35	14.07	32.42	100	0 QP	VERTICAL
3	61.04	35.51	40.00	-4.49	54.00	1.23	12.69	32.41	100	282 QP	VERTICAL
4	72.68	35.91	40.00	-4.09	54.62	0.88	12.81	32.40	100	242 Peak	VERTICAL
5	143.49	30.89	43.50	-12.61	44.67	1.14	17.42	32.34	100	291 Peak	VERTICAL
6	800.18	39.92	46.00	-6.08	41.93	3.51	26.60	32.12	100	72 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.)

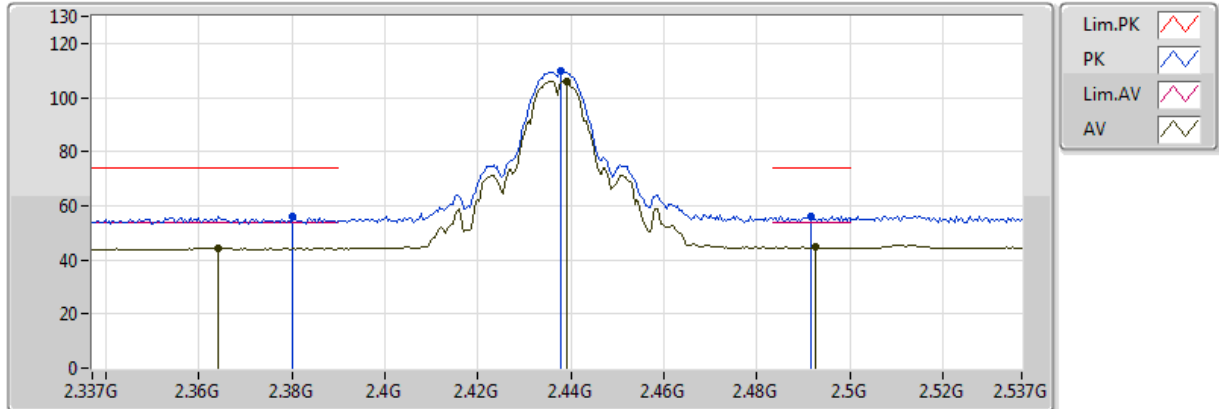


For Dipole Antenna
Summary

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)_1TX	Pass	AV	2.4926G	44.68	54.00	-9.32	32.24	3	Vertical	206	1.65	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



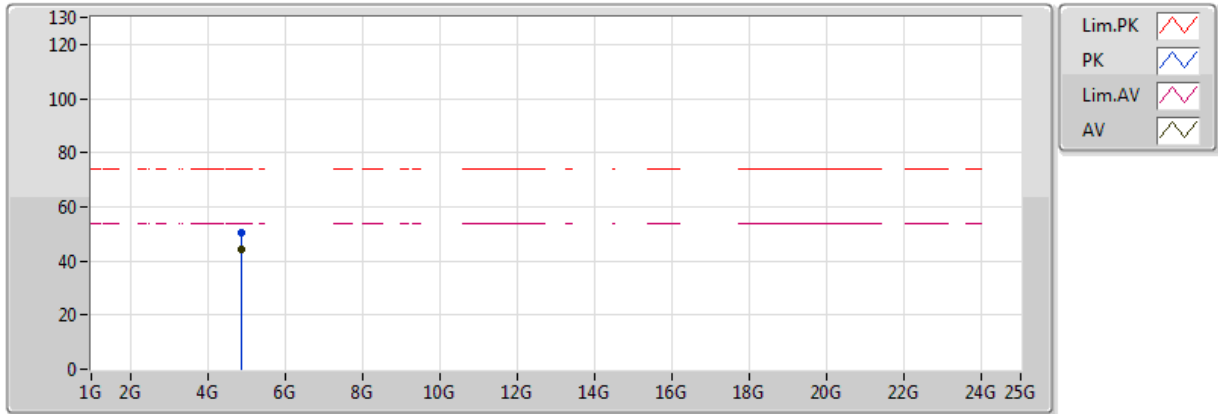
20171129
 EUT_Z_1TX Dipole
 Setting 80
 03-R-5
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3642G	44.43	54.00	-9.57	31.86	3	Vertical	206	1.65
AV	2.439G	105.90	Inf	-Inf	32.07	3	Vertical	206	1.65
AV	2.4926G	44.68	54.00	-9.32	32.24	3	Vertical	206	1.65
PK	2.3802G	56.22	74.00	-17.78	31.90	3	Vertical	206	1.65
PK	2.4378G	109.61	Inf	-Inf	32.07	3	Vertical	206	1.65
PK	2.4918G	56.21	74.00	-17.79	32.23	3	Vertical	206	1.65



802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



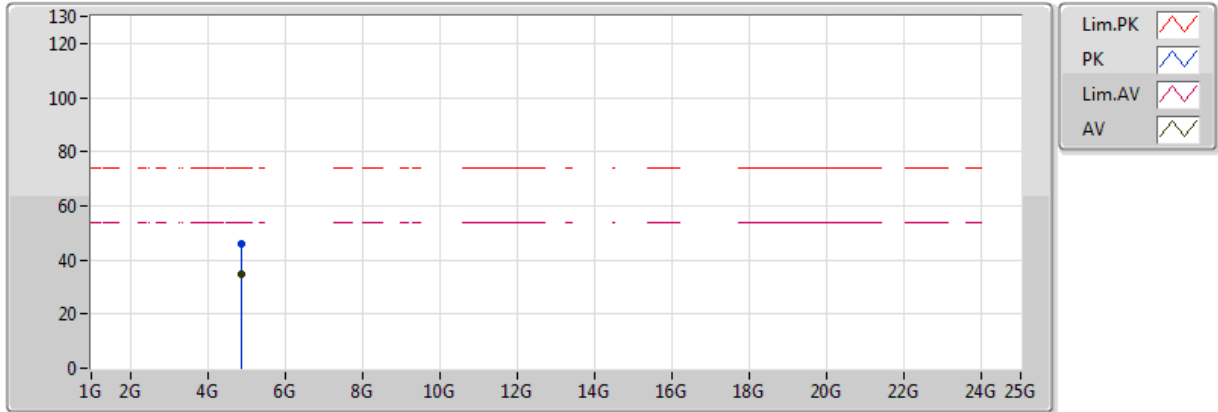
20171129
 EUT_Z_1TX Dipole
 Setting 80
 03-R-5
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87396G	44.22	54.00	-9.78	4.58	3	Vertical	258	2.22
PK	4.87388G	50.16	74.00	-23.84	4.58	3	Vertical	258	2.22



802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



20171129
 EUT Z_1TX Dipole
 Setting 80
 03-R-5
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87394G	34.56	54.00	-19.44	4.58	3	Horizontal	265	1.27
PK	4.87014G	45.76	74.00	-28.24	4.56	3	Horizontal	265	1.27

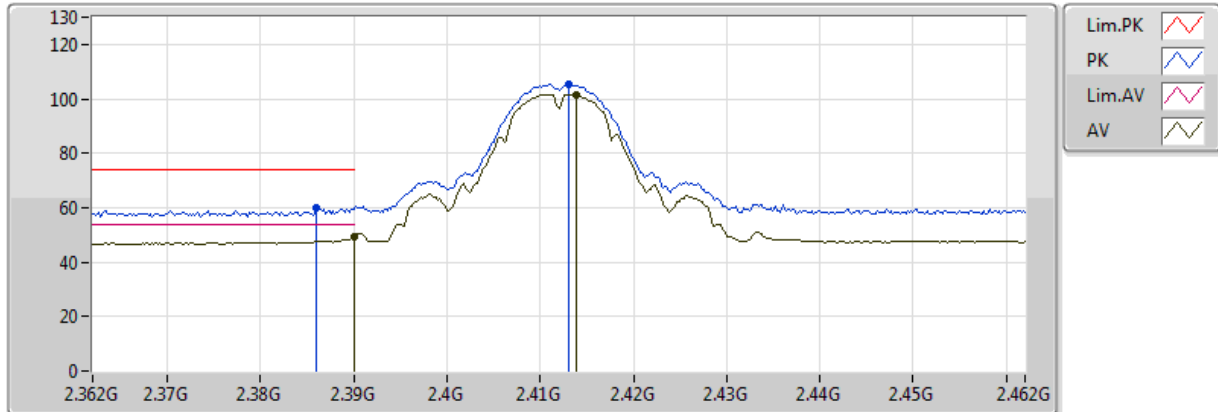


For PIFA Antenna
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	53.00	54.00	-1.00	32.14	3	Vertical	243	1.47	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

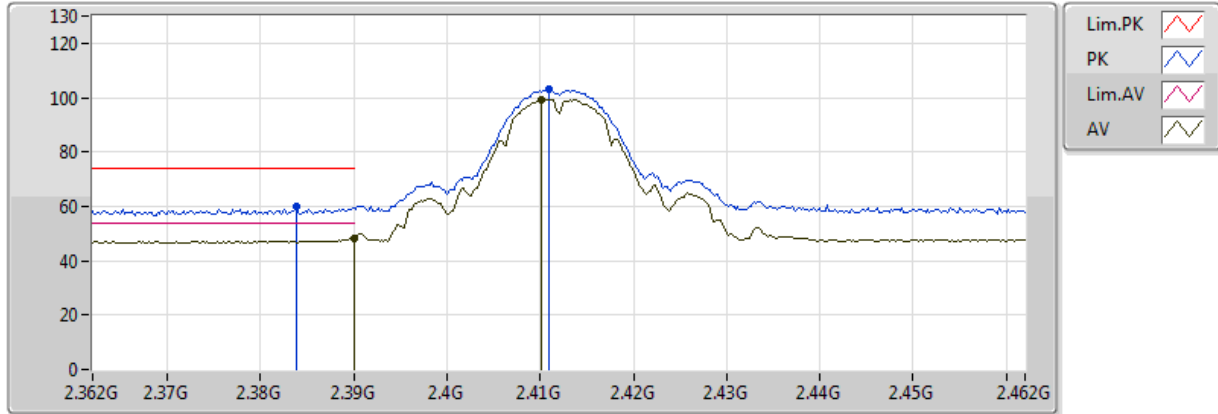


20171123
EUT_Z_1TX
Setting 75
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	49.35	54.00	-4.65	32.14	3	Vertical	327	1.46
AV	2.4138G	101.62	Inf	-Inf	32.22	3	Vertical	327	1.46
PK	2.386G	59.78	74.00	-14.22	32.13	3	Vertical	327	1.46
PK	2.413G	105.35	Inf	-Inf	32.21	3	Vertical	327	1.46

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



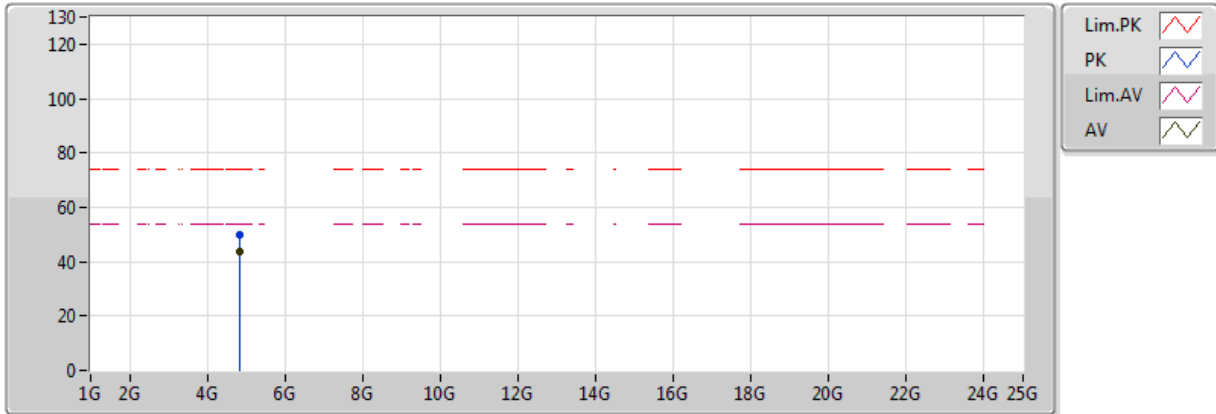
20171123
EUT_Z_1TX
Setting 75
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	48.40	54.00	-5.60	32.14	3	Horizontal	82	2.15
AV	2.4102G	99.24	Inf	-Inf	32.20	3	Horizontal	82	2.15
PK	2.3838G	59.89	74.00	-14.11	32.12	3	Horizontal	82	2.15
PK	2.411G	102.92	Inf	-Inf	32.21	3	Horizontal	82	2.15



802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



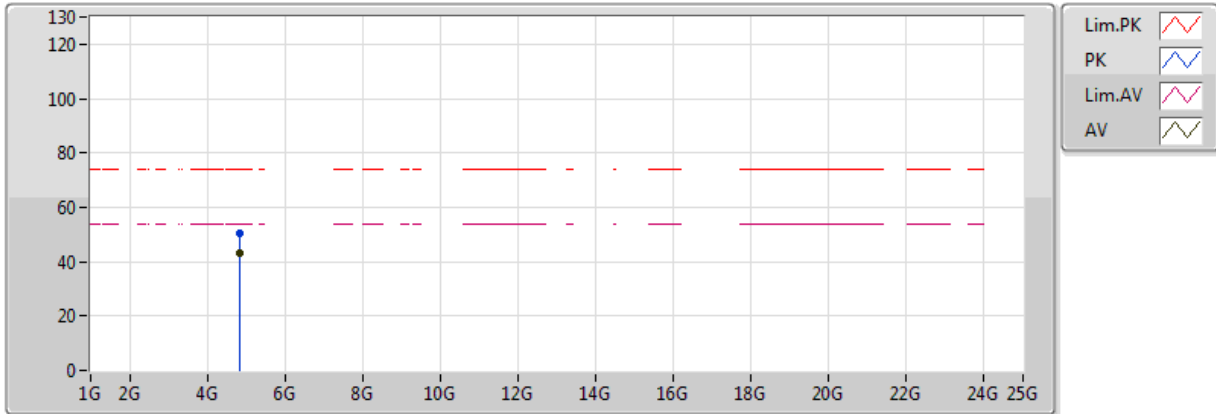
20171123
 EUT_Z_1TX
 Setting 75
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82396G	43.59	54.00	-10.41	9.19	3	Vertical	343	2.41
PK	4.824G	50.11	74.00	-23.89	9.19	3	Vertical	343	2.41



802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



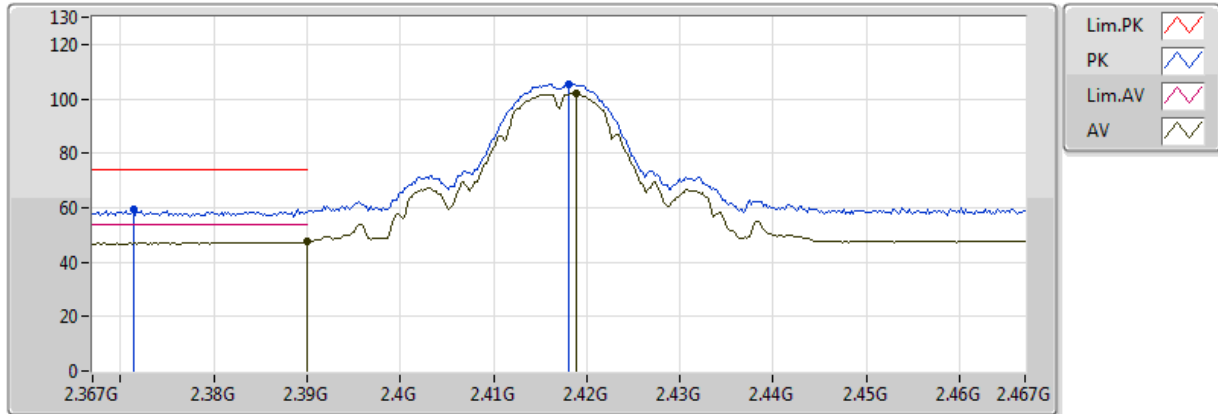
20171123
 EUT_Z_1TX
 Setting 75
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82392G	43.18	54.00	-10.82	9.19	3	Horizontal	337	2.82
PK	4.82392G	50.42	74.00	-23.58	9.19	3	Horizontal	337	2.82



802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX



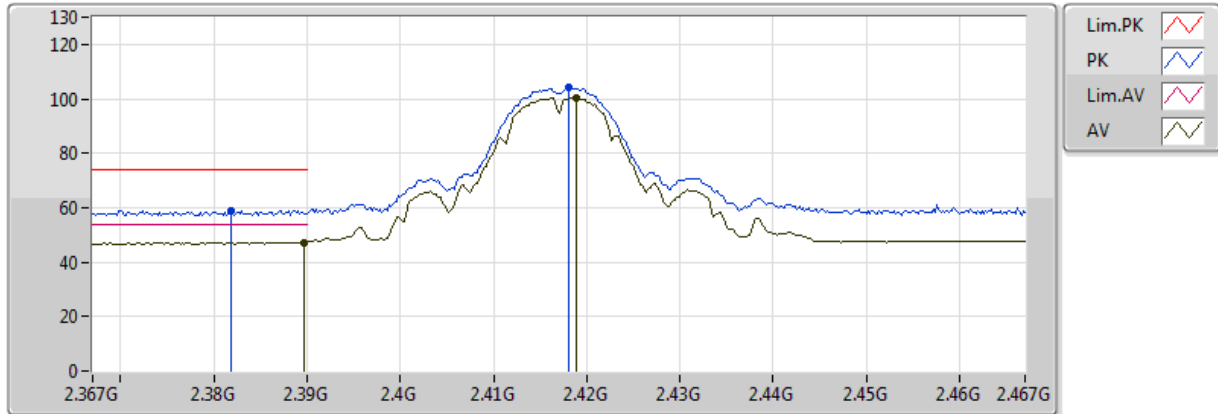
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	47.54	54.00	-6.46	32.14	3	Vertical	94	1.49
AV	2.4188G	101.92	Inf	-Inf	32.23	3	Vertical	94	1.49
PK	2.3714G	59.39	74.00	-14.61	32.08	3	Vertical	94	1.49
PK	2.418G	105.49	Inf	-Inf	32.23	3	Vertical	94	1.49



802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

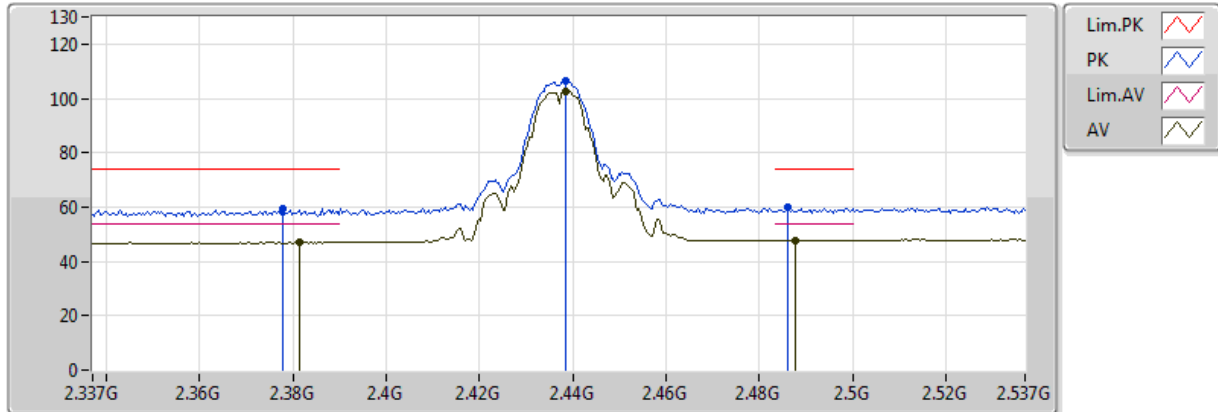


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3896G	47.15	54.00	-6.85	32.14	3	Horizontal	57	2.15
AV	2.4188G	100.47	Inf	-Inf	32.23	3	Horizontal	57	2.15
PK	2.3818G	58.82	74.00	-15.18	32.12	3	Horizontal	57	2.15
PK	2.418G	103.98	Inf	-Inf	32.23	3	Horizontal	57	2.15

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

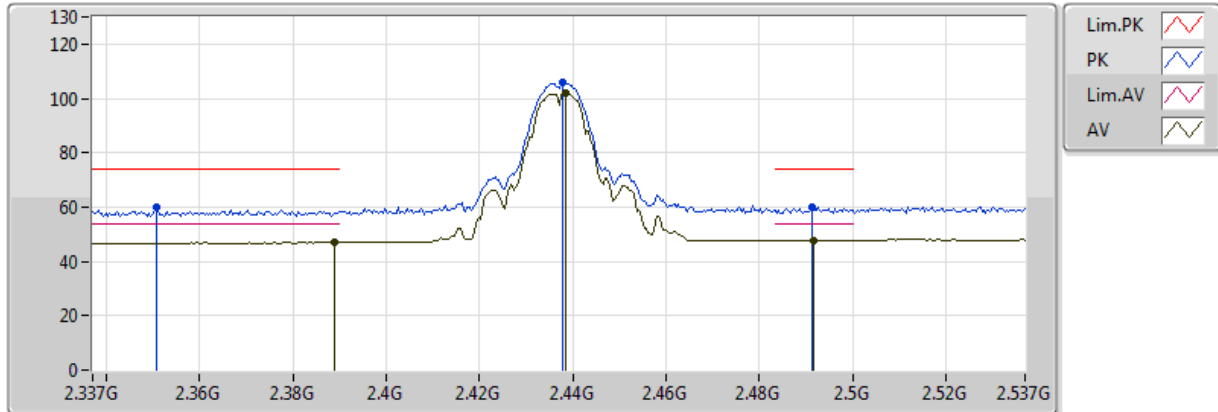


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3814G	47.07	54.00	-6.93	32.11	3	Vertical	8	1.77
AV	2.4386G	102.80	Inf	-Inf	32.30	3	Vertical	8	1.77
AV	2.4878G	47.81	54.00	-6.19	32.46	3	Vertical	8	1.77
PK	2.3778G	59.43	74.00	-14.57	32.10	3	Vertical	8	1.77
PK	2.4386G	106.38	Inf	-Inf	32.30	3	Vertical	8	1.77
PK	2.4862G	59.94	74.00	-14.06	32.45	3	Vertical	8	1.77

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



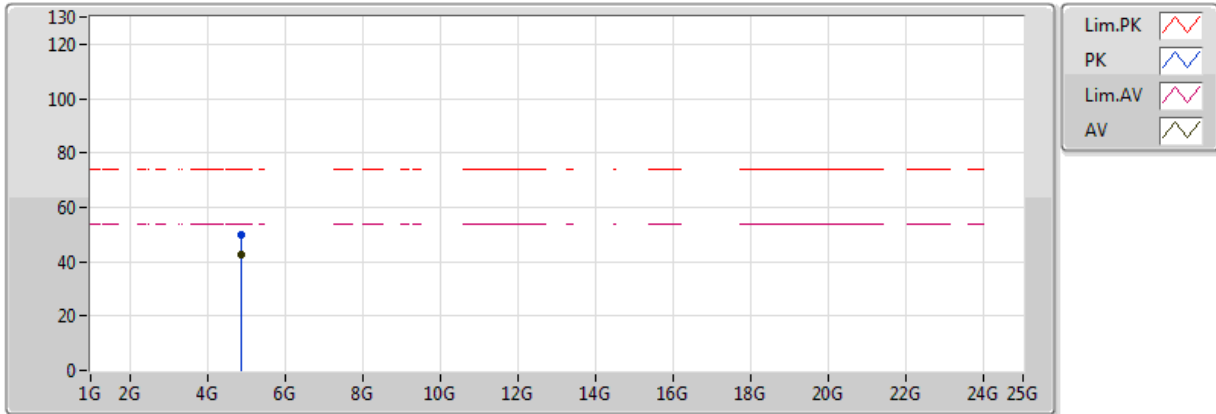
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	47.04	54.00	-6.96	32.14	3	Horizontal	102	2.10
AV	2.4386G	102.10	Inf	-Inf	32.30	3	Horizontal	102	2.10
AV	2.4918G	47.79	54.00	-6.21	32.47	3	Horizontal	102	2.10
PK	2.3506G	60.03	74.00	-13.97	32.02	3	Horizontal	102	2.10
PK	2.4378G	105.73	Inf	-Inf	32.29	3	Horizontal	102	2.10
PK	2.4914G	59.85	74.00	-14.15	32.47	3	Horizontal	102	2.10



802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



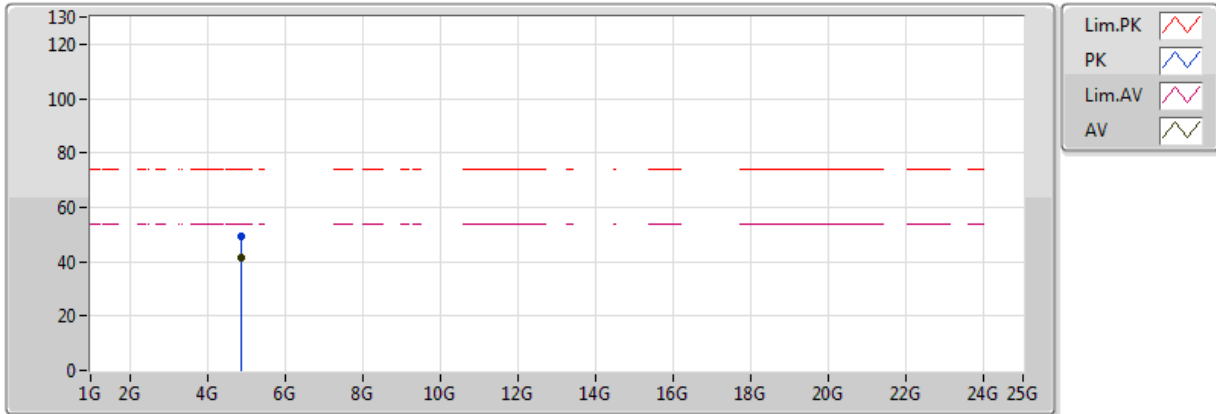
20171123
 EUT_Z_1TX
 Setting 80
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87388G	42.45	54.00	-11.55	9.29	3	Vertical	56	1.48
PK	4.87384G	49.86	74.00	-24.14	9.29	3	Vertical	56	1.48



802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

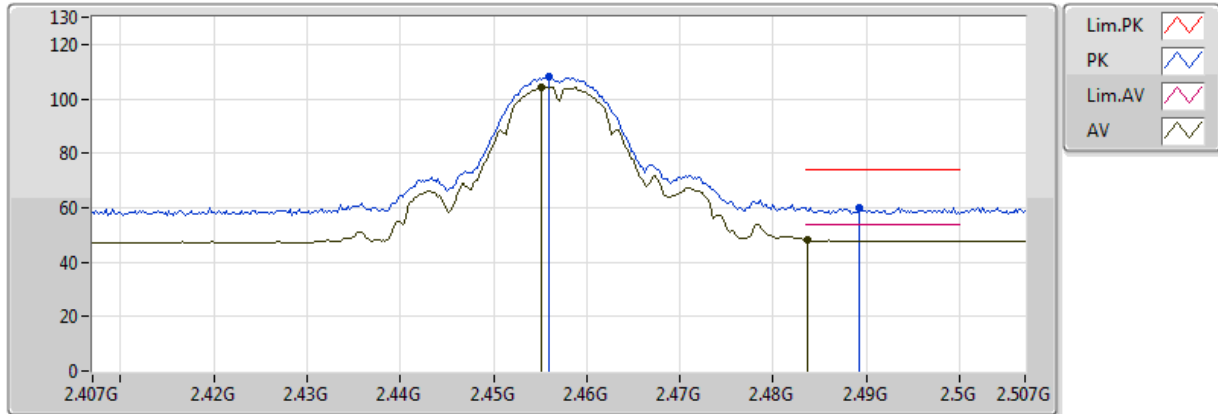


20171123
 EUT_Z_1TX
 Setting 80
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87396G	41.74	54.00	-12.26	9.29	3	Horizontal	156	2.39
PK	4.87392G	49.54	74.00	-24.46	9.29	3	Horizontal	156	2.39

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

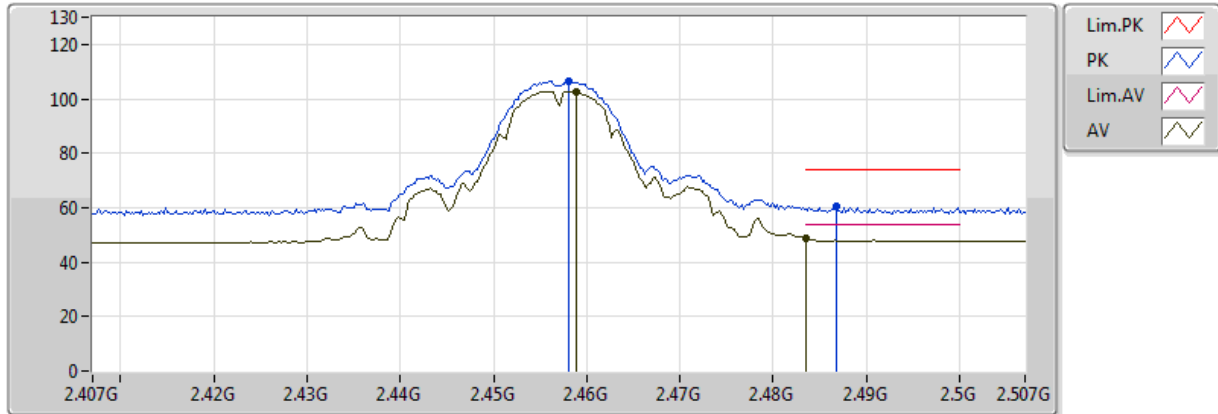


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4552G	104.44	Inf	-Inf	32.35	3	Vertical	291	1.30
AV	2.4836G	48.28	54.00	-5.72	32.45	3	Vertical	291	1.30
PK	2.456G	107.91	Inf	-Inf	32.35	3	Vertical	291	1.30
PK	2.4892G	60.03	74.00	-13.97	32.46	3	Vertical	291	1.30

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

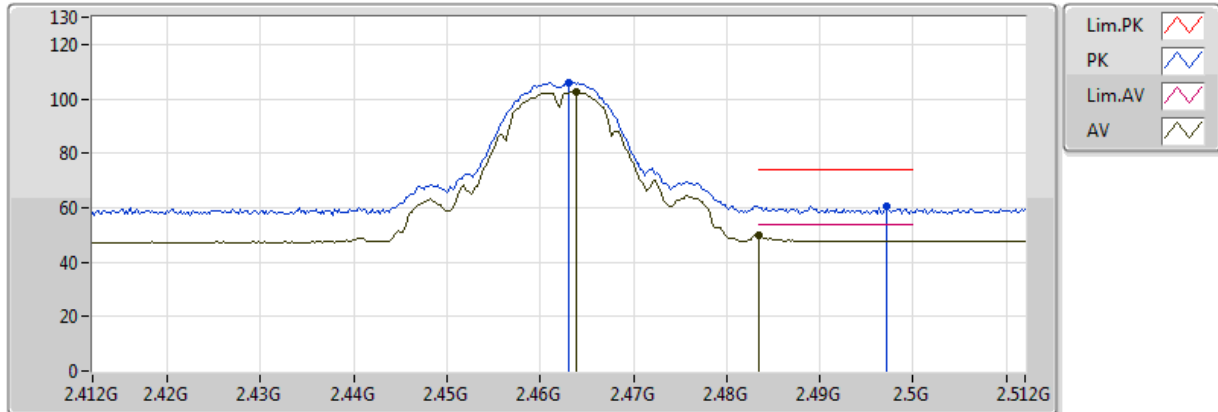


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4588G	102.77	Inf	-Inf	32.36	3	Horizontal	43	2.10
AV	2.483502G	48.72	54.00	-5.28	32.45	3	Horizontal	43	2.10
PK	2.458G	106.47	Inf	-Inf	32.36	3	Horizontal	43	2.10
PK	2.4868G	60.24	74.00	-13.76	32.46	3	Horizontal	43	2.10

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

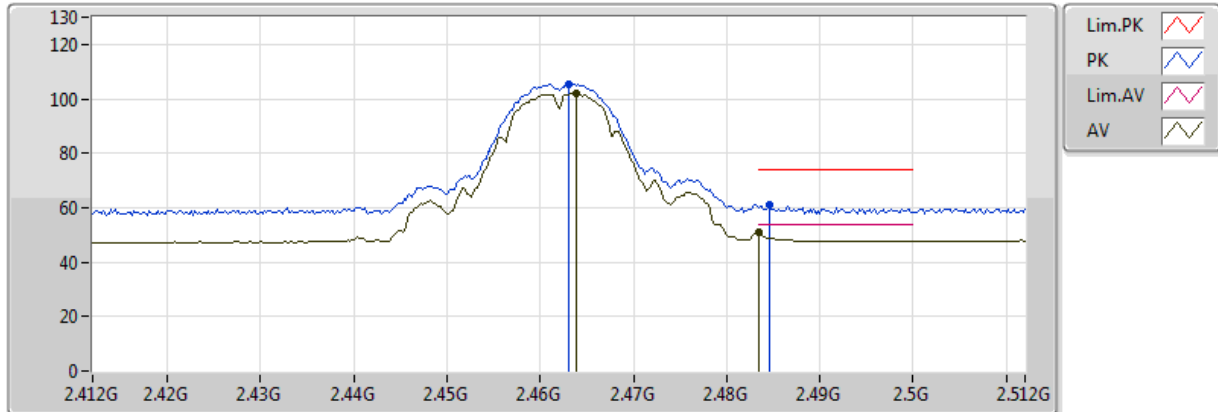


20171123
 EUT_Z_1TX
 Setting 73
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4638G	102.66	Inf	-Inf	32.38	3	Vertical	103	1.77
AV	2.483502G	50.12	54.00	-3.88	32.45	3	Vertical	103	1.77
PK	2.463G	106.13	Inf	-Inf	32.38	3	Vertical	103	1.77
PK	2.4972G	60.78	74.00	-13.22	32.49	3	Vertical	103	1.77

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



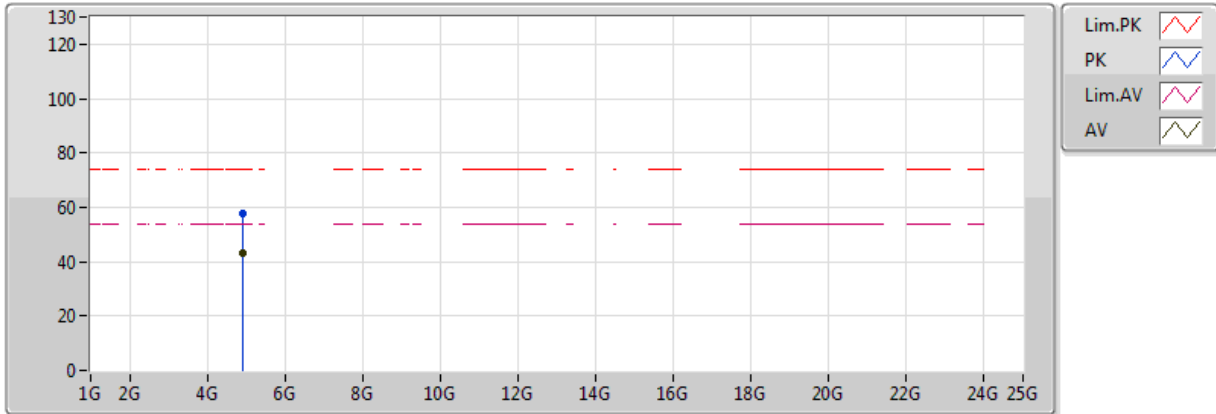
20171123
EUT_Z_1TX
Setting 73
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4638G	102.07	Inf	-Inf	32.38	3	Horizontal	70	1.87
AV	2.483502G	50.77	54.00	-3.23	32.45	3	Horizontal	70	1.87
PK	2.463G	105.55	Inf	-Inf	32.38	3	Horizontal	70	1.87
PK	2.4846G	60.87	74.00	-13.13	32.45	3	Horizontal	70	1.87



802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



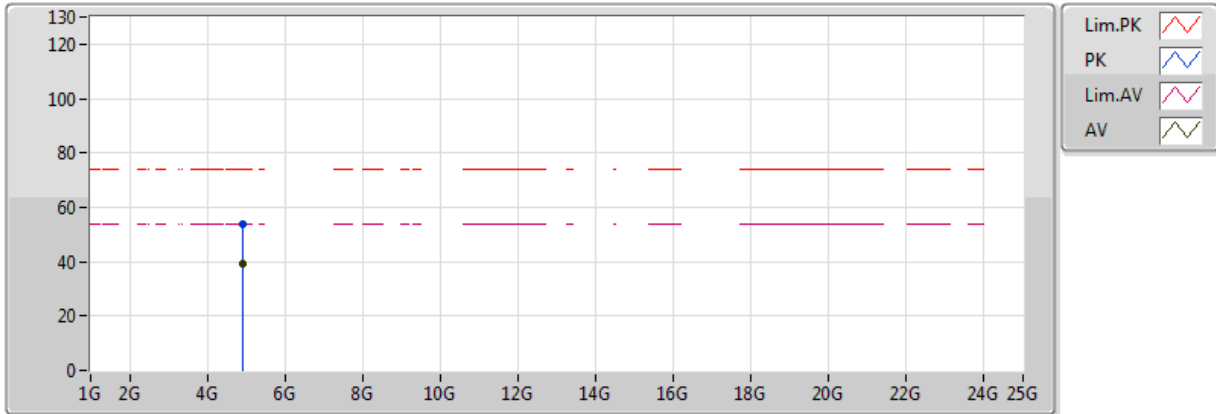
20171123
 EUT_Z_1TX
 Setting 73
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92615G	43.24	54.00	-10.76	9.39	3	Vertical	327	2.38
PK	4.92449G	57.90	74.00	-16.10	9.38	3	Vertical	327	2.38



802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

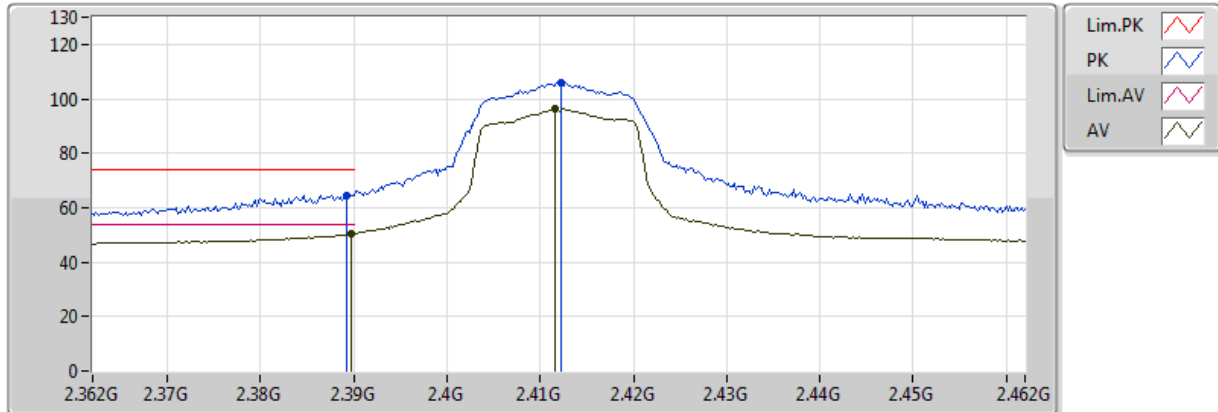


20171123
EUT_Z_1TX
Setting 73
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92286G	39.25	54.00	-14.75	9.38	3	Horizontal	126	1.24
PK	4.92637G	54.06	74.00	-19.94	9.39	3	Horizontal	126	1.24

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

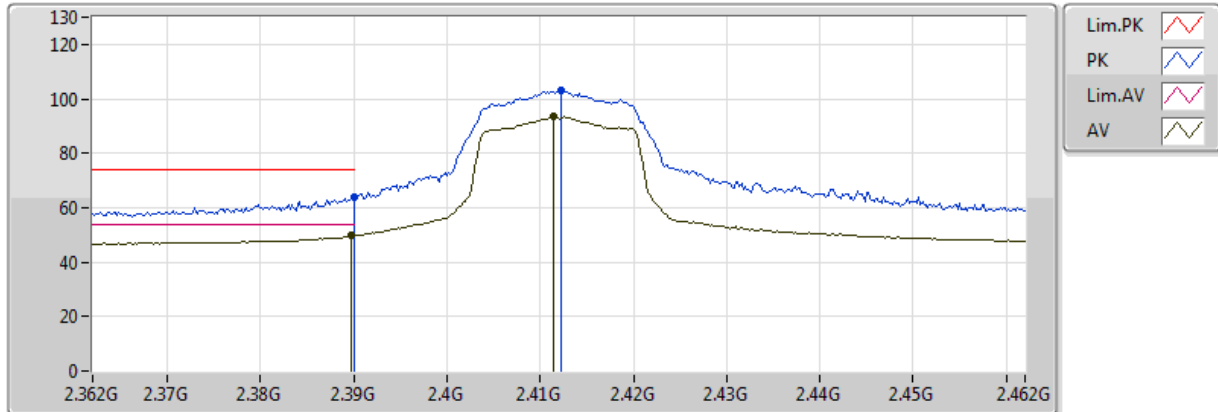


20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	50.45	54.00	-3.55	32.14	3	Vertical	269	1.46
AV	2.4116G	96.29	Inf	-Inf	32.21	3	Vertical	269	1.46
PK	2.3892G	64.70	74.00	-9.30	32.14	3	Vertical	269	1.46
PK	2.4122G	105.82	Inf	-Inf	32.21	3	Vertical	269	1.46

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



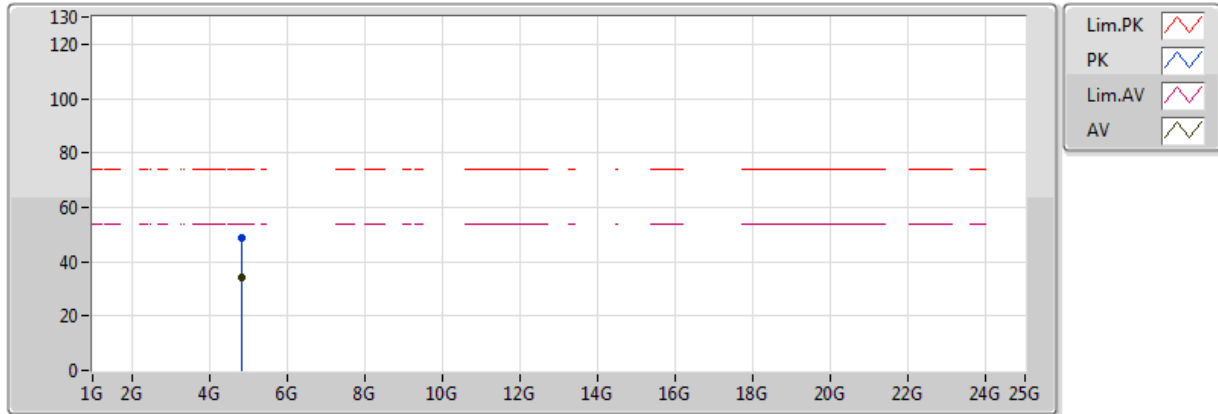
20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	49.68	54.00	-4.32	32.14	3	Horizontal	37	2.23
AV	2.4114G	93.48	Inf	-Inf	32.21	3	Horizontal	37	2.23
PK	2.39G	63.78	74.00	-10.22	32.14	3	Horizontal	37	2.23
PK	2.4122G	102.94	Inf	-Inf	32.21	3	Horizontal	37	2.23



802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



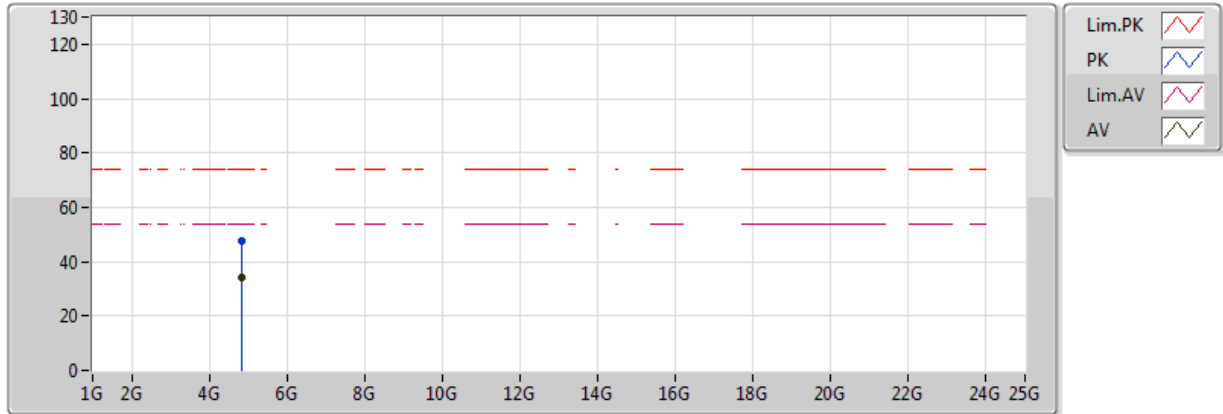
20171123
 EUT_Z_1TX
 Setting 67
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82195G	34.13	54.00	-19.87	9.18	3	Vertical	132	2.18
PK	4.82646G	48.67	74.00	-25.33	9.19	3	Vertical	132	2.18



802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

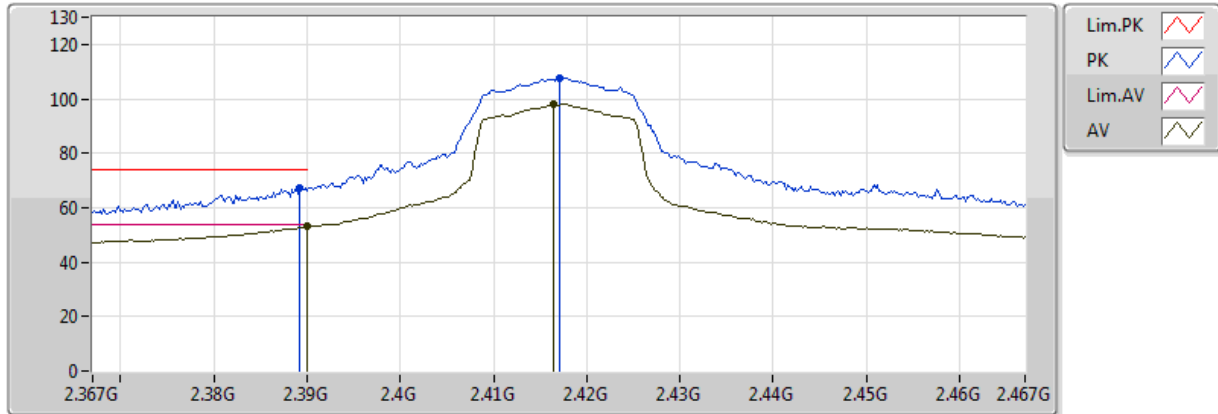


20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82159G	34.10	54.00	-19.90	9.18	3	Horizontal	313	1.34
PK	4.82183G	47.75	74.00	-26.25	9.18	3	Horizontal	313	1.34

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX



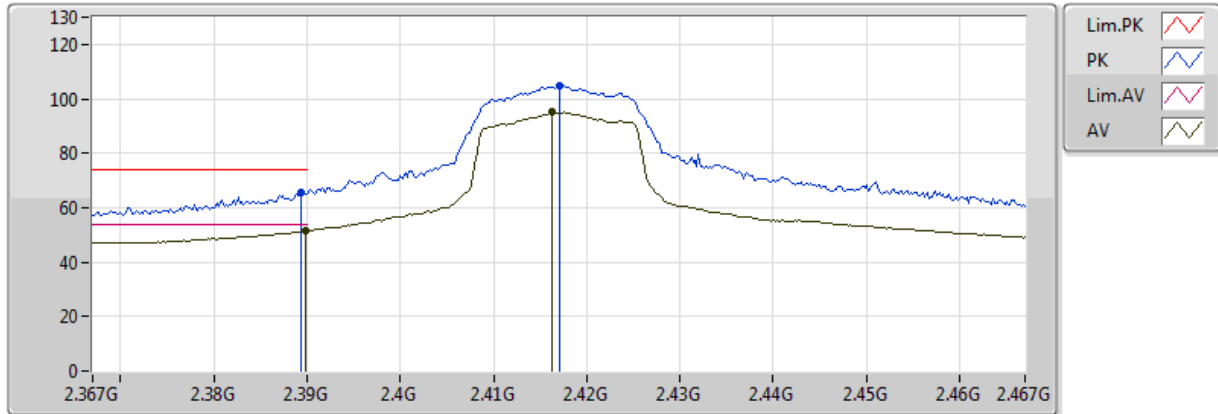
20171123
EUT_Z_1TX
Setting 77
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	53.00	54.00	-1.00	32.14	3	Vertical	243	1.47
AV	2.4164G	98.14	Inf	-Inf	32.22	3	Vertical	243	1.47
PK	2.3892G	67.46	74.00	-6.54	32.14	3	Vertical	243	1.47
PK	2.417G	107.71	Inf	-Inf	32.23	3	Vertical	243	1.47



802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

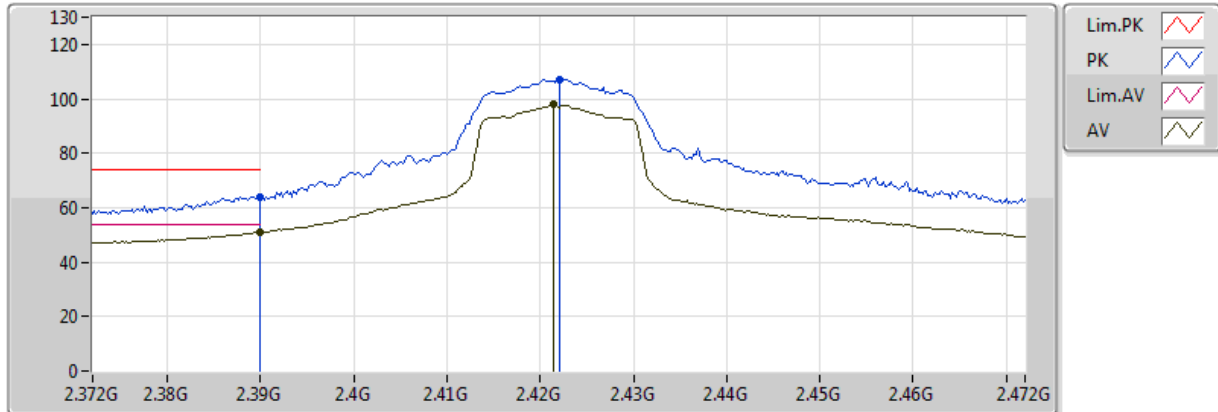


20171123
EUT_Z_1TX
Setting 77
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	51.68	54.00	-2.32	32.14	3	Horizontal	6	1.59
AV	2.4162G	95.12	Inf	-Inf	32.22	3	Horizontal	6	1.59
PK	2.3894G	65.54	74.00	-8.46	32.14	3	Horizontal	6	1.59
PK	2.417G	104.74	Inf	-Inf	32.23	3	Horizontal	6	1.59

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

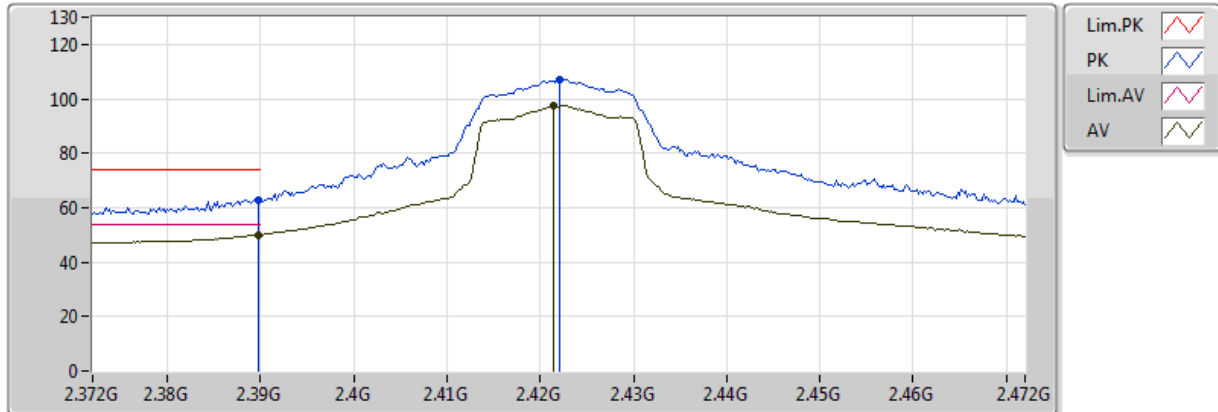


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.82	54.00	-3.18	32.14	3	Vertical	32	1.47
AV	2.4214G	97.85	Inf	-Inf	32.24	3	Vertical	32	1.47
PK	2.39G	63.97	74.00	-10.03	32.14	3	Vertical	32	1.47
PK	2.422G	107.29	Inf	-Inf	32.24	3	Vertical	32	1.47

802.11g_Nss1,(6Mbps)_1TX

2422MHz_TX

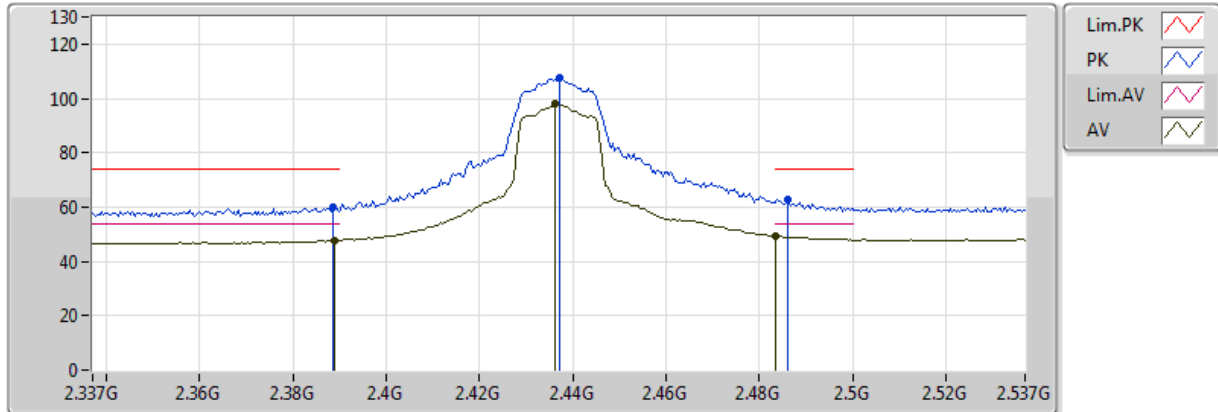


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	50.06	54.00	-3.94	32.14	3	Horizontal	354	2.14
AV	2.4214G	97.48	Inf	-Inf	32.24	3	Horizontal	354	2.14
PK	2.3898G	62.86	74.00	-11.14	32.14	3	Horizontal	354	2.14
PK	2.422G	107.08	Inf	-Inf	32.24	3	Horizontal	354	2.14

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

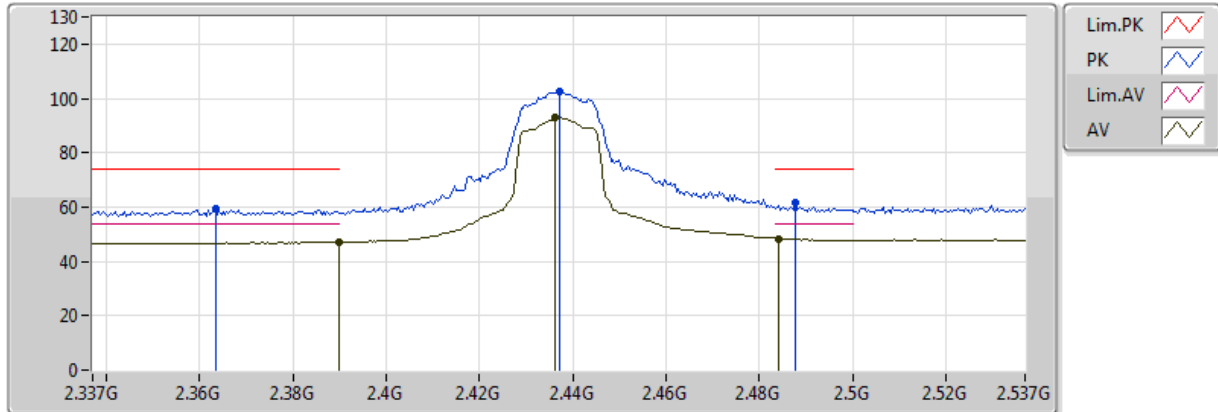


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	47.81	54.00	-6.19	32.14	3	Vertical	71	1.50
AV	2.4362G	97.89	Inf	-Inf	32.29	3	Vertical	71	1.50
AV	2.483502G	49.47	54.00	-4.53	32.45	3	Vertical	71	1.50
PK	2.3886G	60.15	74.00	-13.85	32.14	3	Vertical	71	1.50
PK	2.437G	107.42	Inf	-Inf	32.29	3	Vertical	71	1.50
PK	2.4862G	62.60	74.00	-11.40	32.45	3	Vertical	71	1.50

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



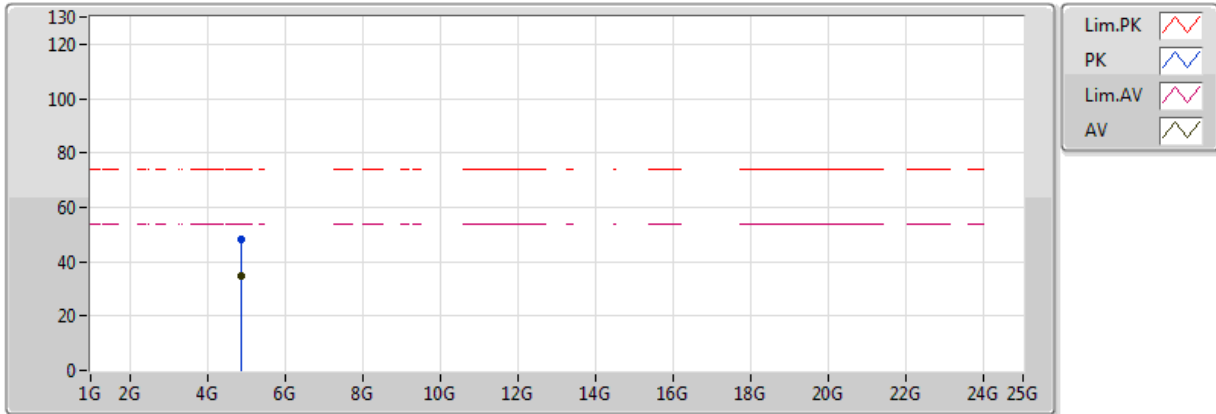
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	47.15	54.00	-6.85	32.14	3	Horizontal	357	2.85
AV	2.4362G	93.12	Inf	-Inf	32.29	3	Horizontal	357	2.85
AV	2.4842G	48.46	54.00	-5.54	32.45	3	Horizontal	357	2.85
PK	2.3634G	59.65	74.00	-14.35	32.06	3	Horizontal	357	2.85
PK	2.437G	102.70	Inf	-Inf	32.29	3	Horizontal	357	2.85
PK	2.4878G	61.37	74.00	-12.63	32.46	3	Horizontal	357	2.85



802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



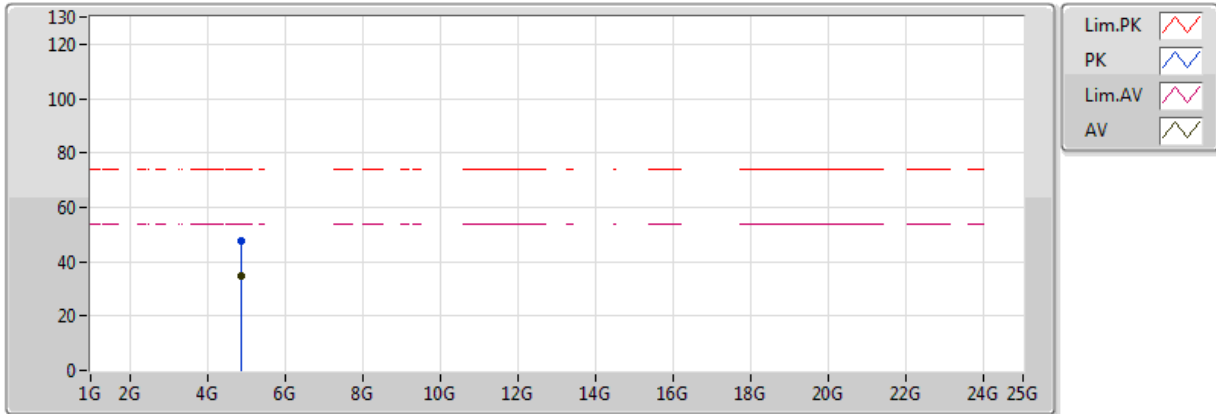
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.876G	34.59	54.00	-19.41	9.29	3	Vertical	351	2.05
PK	4.87498G	47.94	74.00	-26.06	9.29	3	Vertical	351	2.05



802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

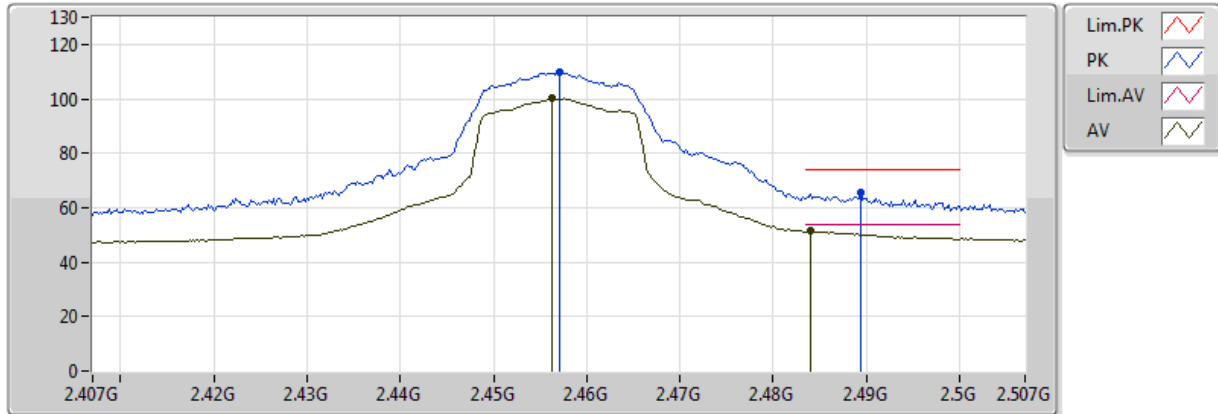


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.8757G	34.61	54.00	-19.39	9.29	3	Horizontal	359	2.31
PK	4.87505G	47.75	74.00	-26.25	9.29	3	Horizontal	359	2.31

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX



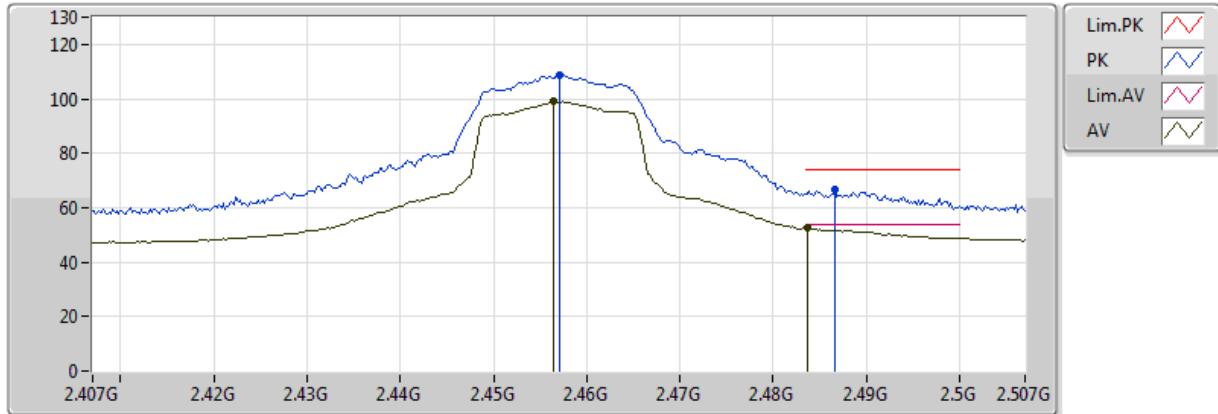
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4562G	100.35	Inf	-Inf	32.36	3	Vertical	228	1.30
AV	2.484G	51.48	54.00	-2.52	32.45	3	Vertical	228	1.30
PK	2.457G	109.86	Inf	-Inf	32.36	3	Vertical	228	1.30
PK	2.4894G	65.41	74.00	-8.59	32.47	3	Vertical	228	1.30



802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

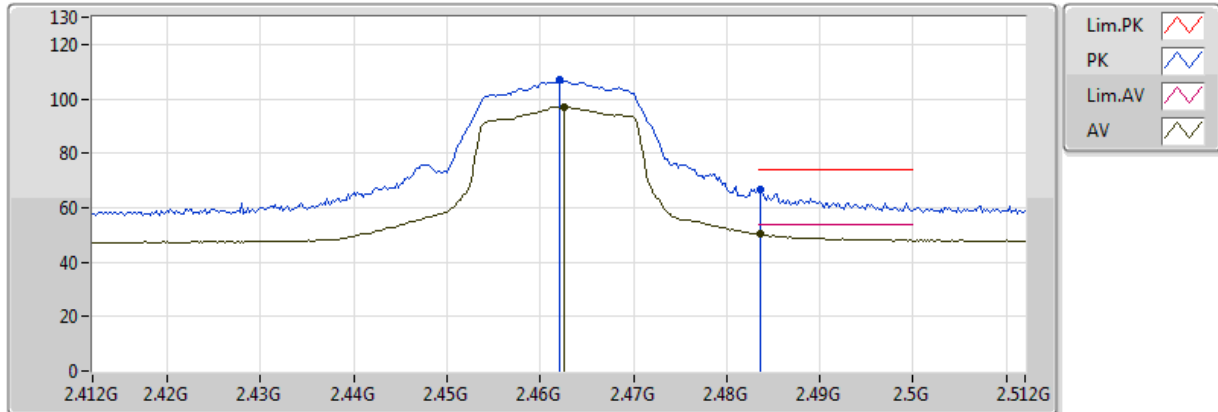


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4564G	98.98	Inf	-Inf	32.36	3	Horizontal	341	2.11
AV	2.4836G	52.60	54.00	-1.40	32.45	3	Horizontal	341	2.11
PK	2.457G	108.72	Inf	-Inf	32.36	3	Horizontal	341	2.11
PK	2.4866G	66.76	74.00	-7.24	32.46	3	Horizontal	341	2.11

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

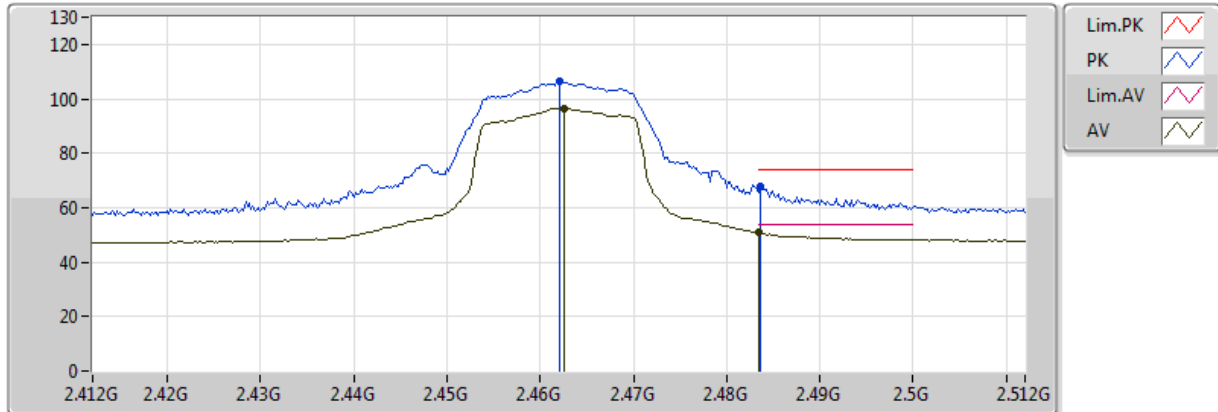


20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4626G	97.16	Inf	-Inf	32.38	3	Vertical	47	1.77
AV	2.4836G	50.20	54.00	-3.80	32.45	3	Vertical	47	1.77
PK	2.462G	106.79	Inf	-Inf	32.37	3	Vertical	47	1.77
PK	2.4836G	66.92	74.00	-7.08	32.45	3	Vertical	47	1.77

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



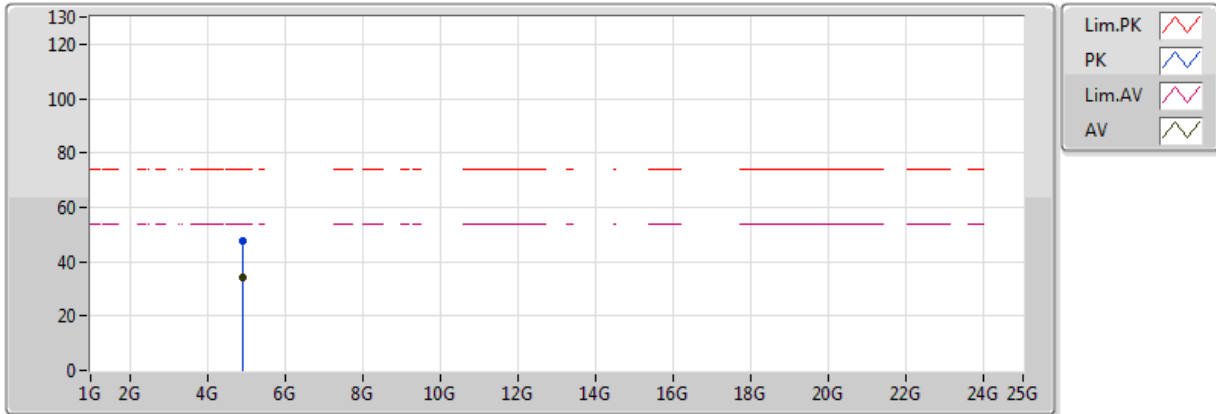
20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4626G	96.56	Inf	-Inf	32.38	3	Horizontal	13	1.88
AV	2.483502G	50.88	54.00	-3.12	32.45	3	Horizontal	13	1.88
PK	2.462G	106.25	Inf	-Inf	32.37	3	Horizontal	13	1.88
PK	2.4836G	67.80	74.00	-6.20	32.45	3	Horizontal	13	1.88



802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



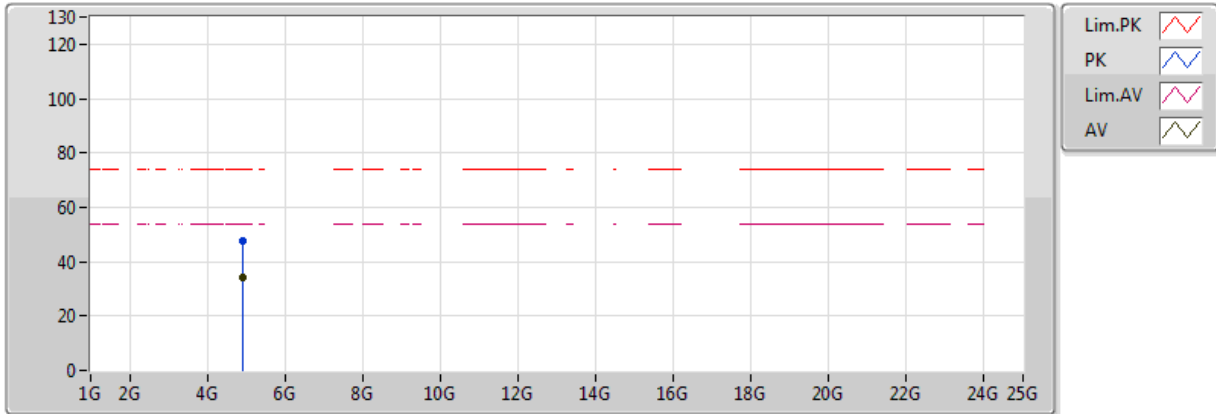
20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92437G	34.33	54.00	-19.67	9.38	3	Vertical	47	2.23
PK	4.92184G	47.83	74.00	-26.17	9.38	3	Vertical	47	2.23



802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

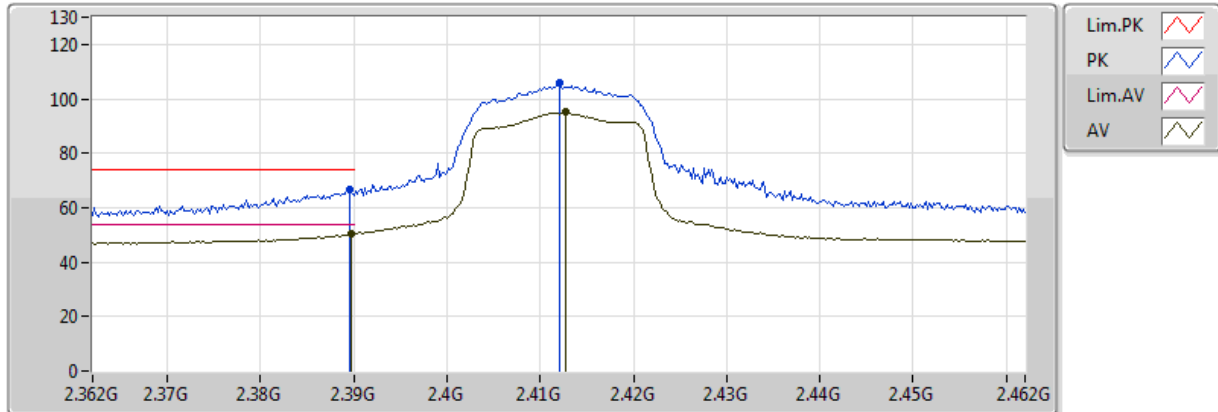


20171123
EUT_Z_1TX
Setting 67
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92408G	34.15	54.00	-19.85	9.38	3	Horizontal	266	2.08
PK	4.92323G	47.82	74.00	-26.18	9.38	3	Horizontal	266	2.08

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

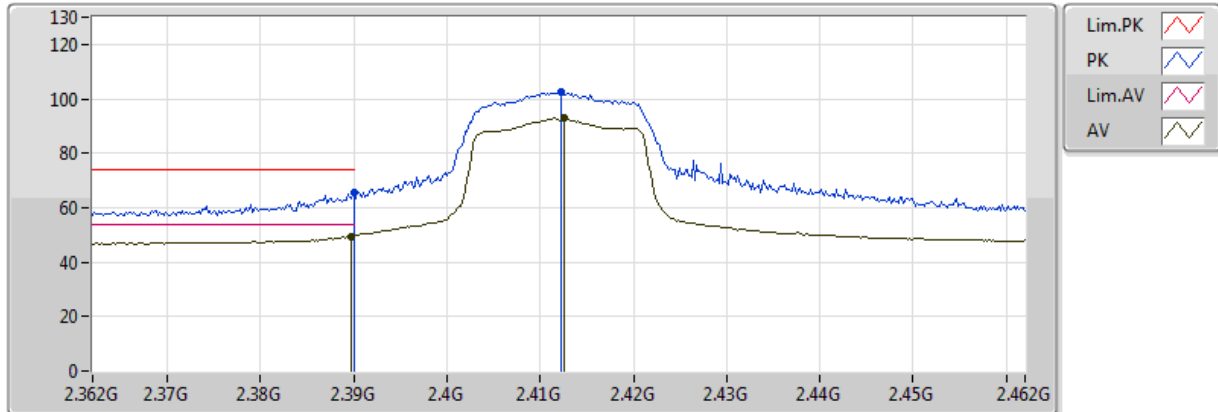


20171123
EUT_Z_1TX
Setting 66
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3896G	50.23	54.00	-3.77	32.14	3	Vertical	206	1.47
AV	2.4128G	95.27	Inf	-Inf	32.21	3	Vertical	206	1.47
PK	2.3896G	66.63	74.00	-7.37	32.14	3	Vertical	206	1.47
PK	2.412G	105.85	Inf	-Inf	32.21	3	Vertical	206	1.47

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX



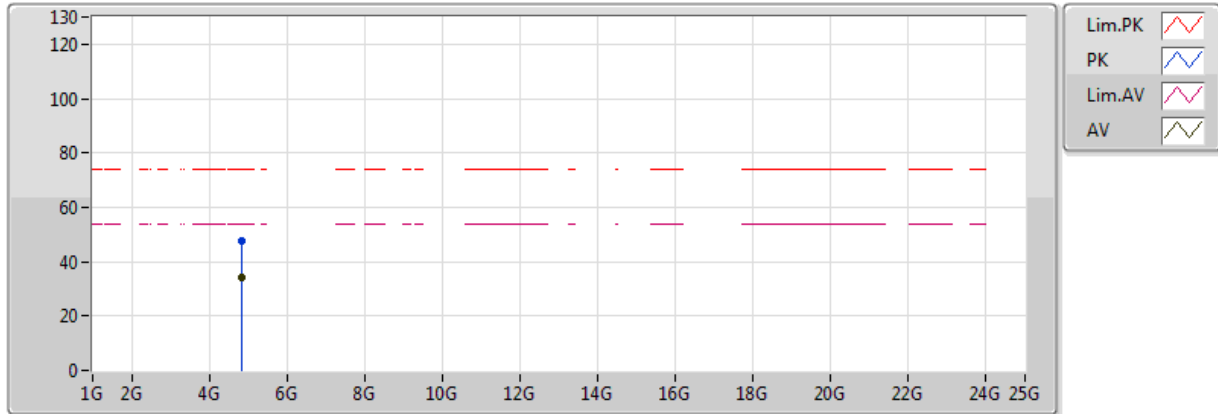
20171123
EUT_Z_1TX
Setting 66
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3898G	49.53	54.00	-4.47	32.14	3	Horizontal	328	2.15
AV	2.4126G	92.92	Inf	-Inf	32.21	3	Horizontal	328	2.15
PK	2.39G	65.40	74.00	-8.60	32.14	3	Horizontal	328	2.15
PK	2.4122G	102.37	Inf	-Inf	32.21	3	Horizontal	328	2.15



802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

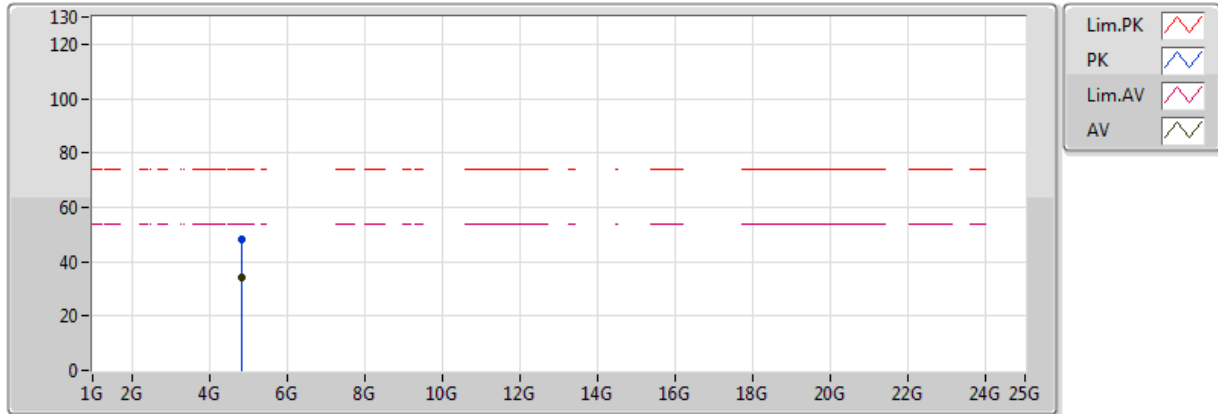


20171123
EUT_Z_1TX
Setting 66
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82218G	34.29	54.00	-19.71	9.18	3	Vertical	106	1.07
PK	4.82415G	47.66	74.00	-26.34	9.19	3	Vertical	106	1.07

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

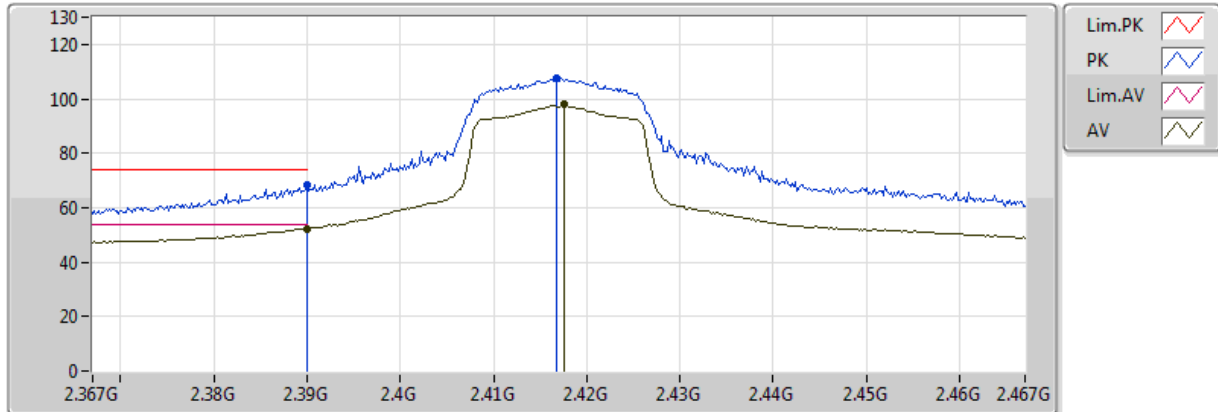


20171123
EUT_Z_1TX
Setting 66
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.82247G	34.17	54.00	-19.83	9.18	3	Horizontal	3	2.13
PK	4.82187G	48.09	74.00	-25.91	9.18	3	Horizontal	3	2.13

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

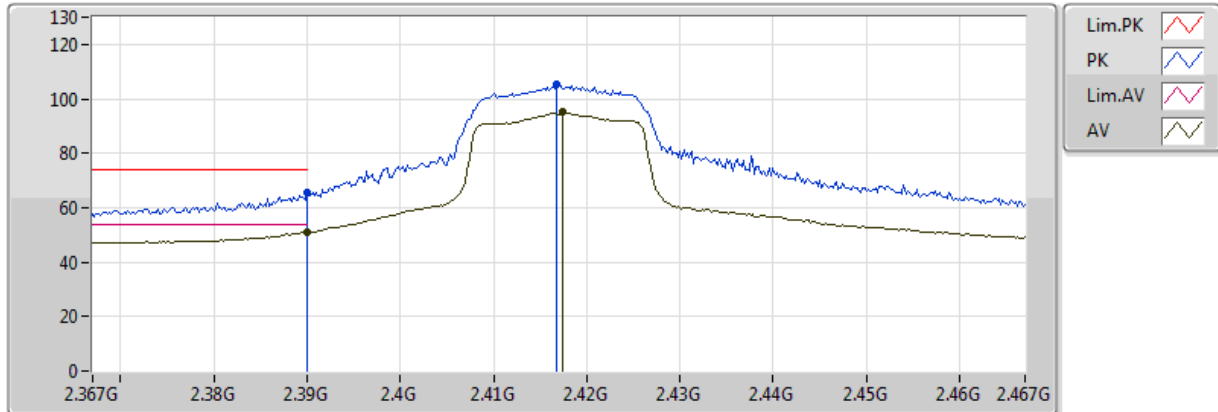


20171123
EUT_Z_1TX
Setting 78
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	52.27	54.00	-1.73	32.14	3	Vertical	169	1.45
AV	2.4176G	97.84	Inf	-Inf	32.23	3	Vertical	169	1.45
PK	2.39G	68.59	74.00	-5.41	32.14	3	Vertical	169	1.45
PK	2.4168G	107.85	Inf	-Inf	32.23	3	Vertical	169	1.45

802.11n HT20_Nss1,(MCS0)_1TX

2417MHz_TX

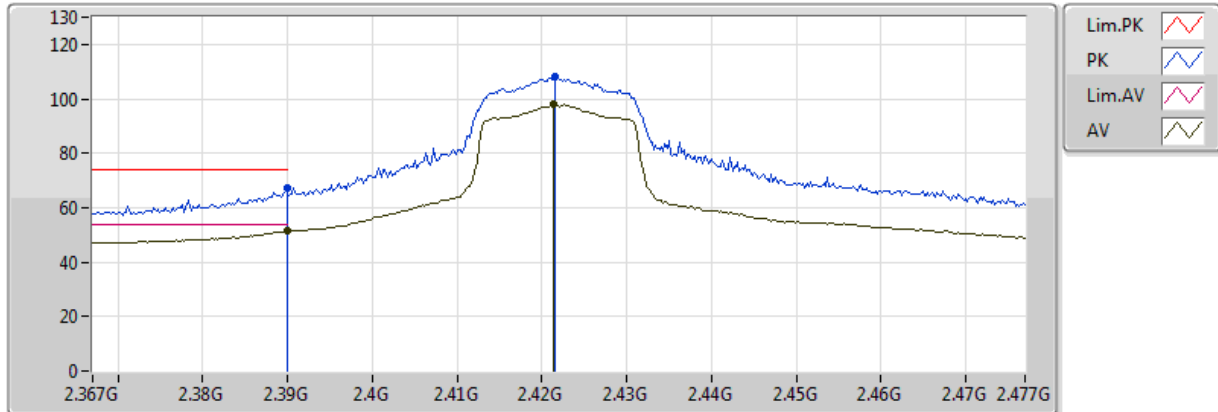


20171123
EUT_Z_1TX
Setting 78
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	50.85	54.00	-3.15	32.14	3	Horizontal	290	2.15
AV	2.4174G	95.08	Inf	-Inf	32.23	3	Horizontal	290	2.15
PK	2.39G	65.53	74.00	-8.47	32.14	3	Horizontal	290	2.15
PK	2.4168G	105.07	Inf	-Inf	32.23	3	Horizontal	290	2.15

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

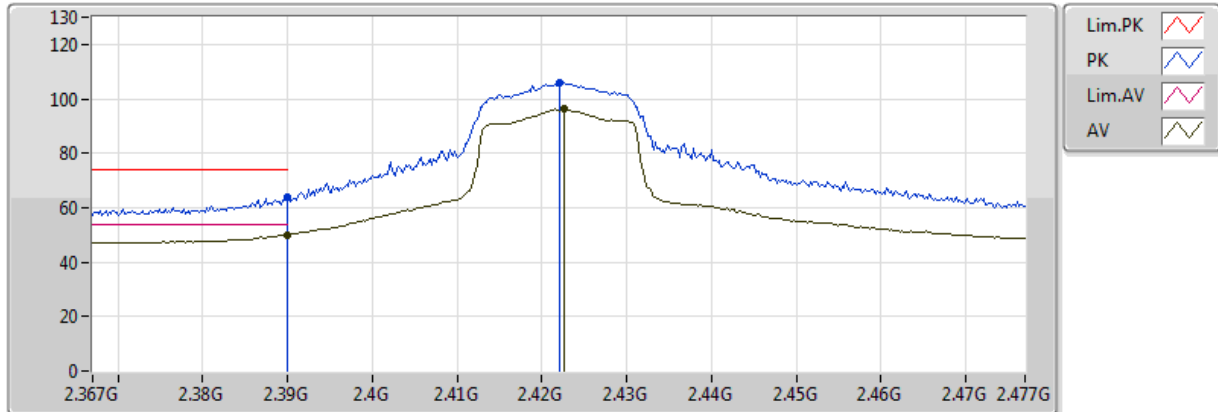


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	51.43	54.00	-2.57	32.14	3	Vertical	169	1.19
AV	2.42134G	97.97	Inf	-Inf	32.24	3	Vertical	169	1.19
PK	2.38988G	67.36	74.00	-6.64	32.14	3	Vertical	169	1.19
PK	2.42156G	108.12	Inf	-Inf	32.24	3	Vertical	169	1.19

802.11n HT20_Nss1,(MCS0)_1TX

2422MHz_TX

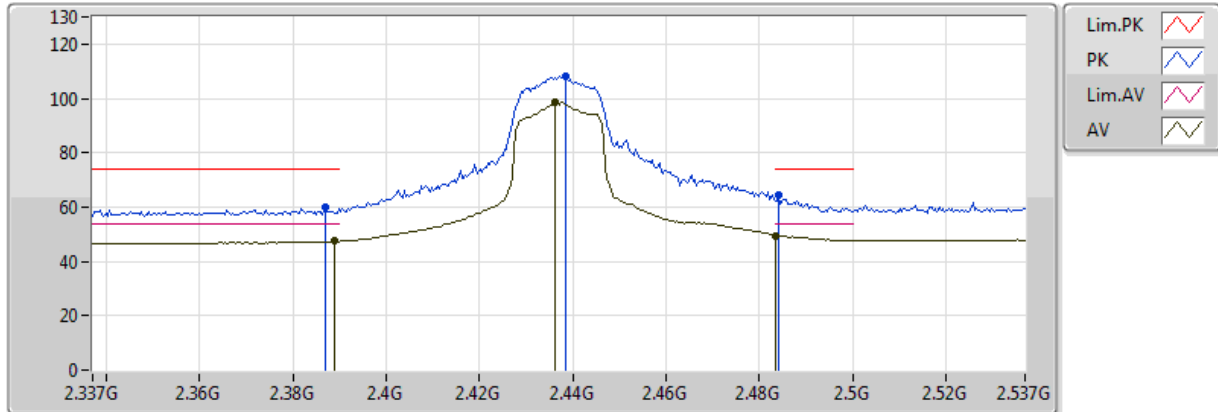


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	50.02	54.00	-3.98	32.14	3	Horizontal	286	2.17
AV	2.42266G	96.25	Inf	-Inf	32.24	3	Horizontal	286	2.17
PK	2.389998G	64.14	74.00	-9.86	32.14	3	Horizontal	286	2.17
PK	2.422G	105.96	Inf	-Inf	32.24	3	Horizontal	286	2.17

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

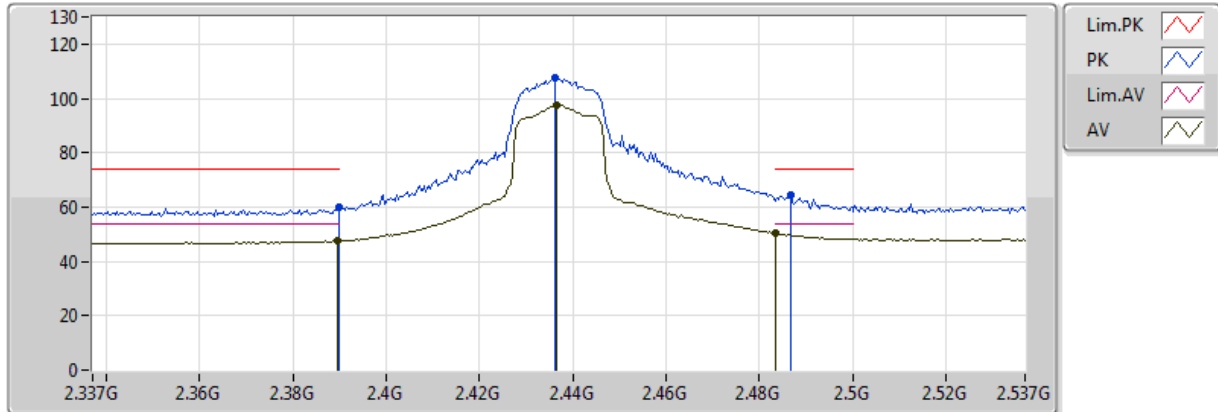


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	47.37	54.00	-6.63	32.14	3	Vertical	319	1.68
AV	2.4362G	98.56	Inf	-Inf	32.29	3	Vertical	319	1.68
AV	2.483502G	49.59	54.00	-4.41	32.45	3	Vertical	319	1.68
PK	2.387G	59.79	74.00	-14.21	32.13	3	Vertical	319	1.68
PK	2.4386G	108.14	Inf	-Inf	32.30	3	Vertical	319	1.68
PK	2.4842G	64.45	74.00	-9.55	32.45	3	Vertical	319	1.68

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX



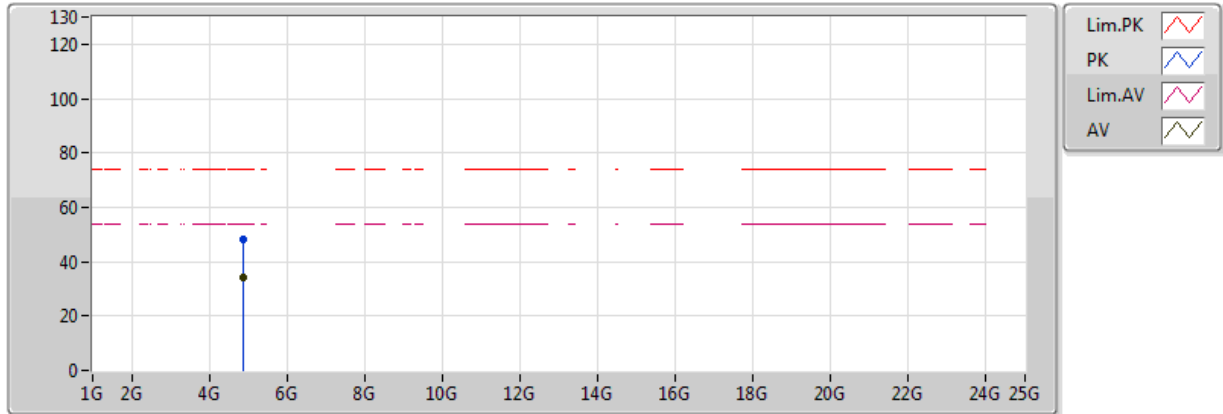
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3894G	47.63	54.00	-6.37	32.14	3	Horizontal	307	1.94
AV	2.4366G	97.62	Inf	-Inf	32.29	3	Horizontal	307	1.94
AV	2.483502G	50.18	54.00	-3.82	32.45	3	Horizontal	307	1.94
PK	2.389998G	59.97	74.00	-14.03	32.14	3	Horizontal	307	1.94
PK	2.4362G	107.39	Inf	-Inf	32.29	3	Horizontal	307	1.94
PK	2.4866G	64.49	74.00	-9.51	32.46	3	Horizontal	307	1.94



802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX



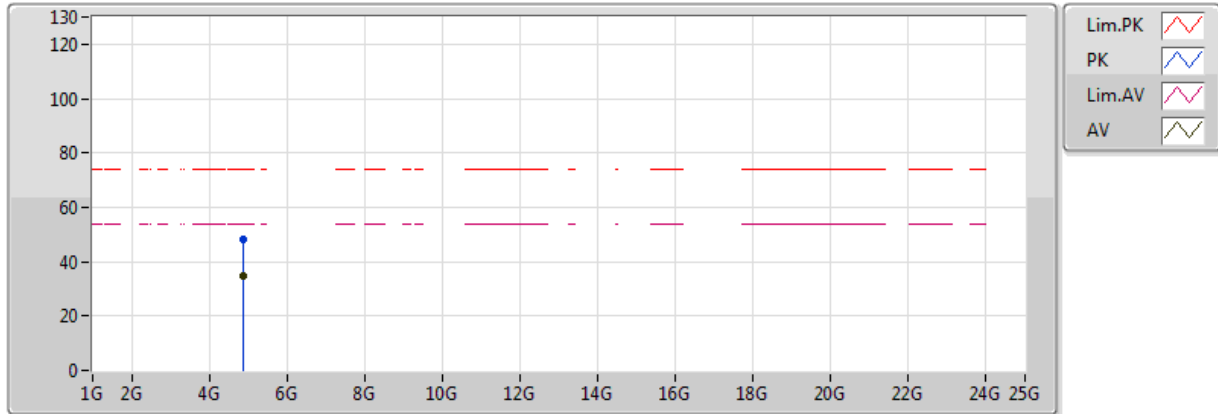
20171123
 EUT_Z_1TX
 Setting 80
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87565G	34.39	54.00	-19.61	9.29	3	Vertical	174	1.06
PK	4.87594G	48.01	74.00	-25.99	9.29	3	Vertical	174	1.06



802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

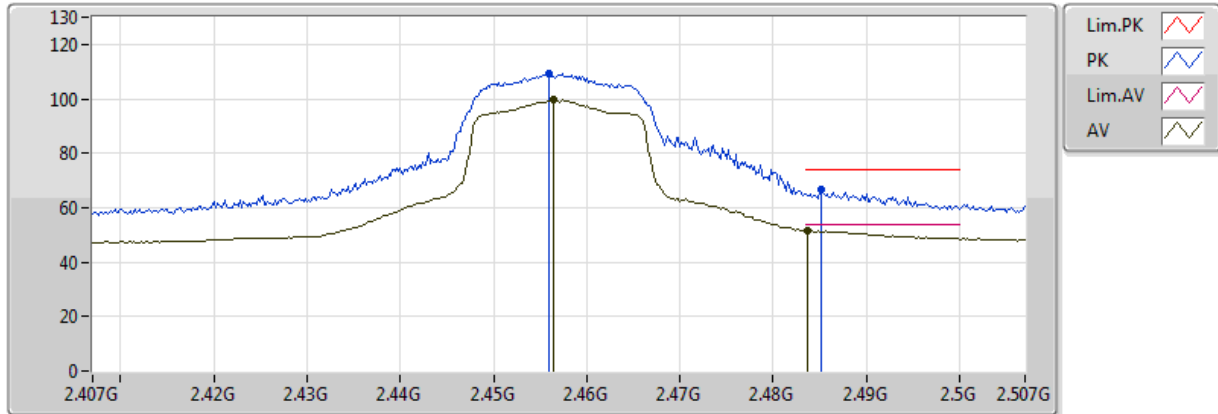


20171123
 EUT_Z_1TX
 Setting 80
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87306G	34.69	54.00	-19.31	9.29	3	Horizontal	258	1.44
PK	4.87347G	48.18	74.00	-25.82	9.29	3	Horizontal	258	1.44

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX



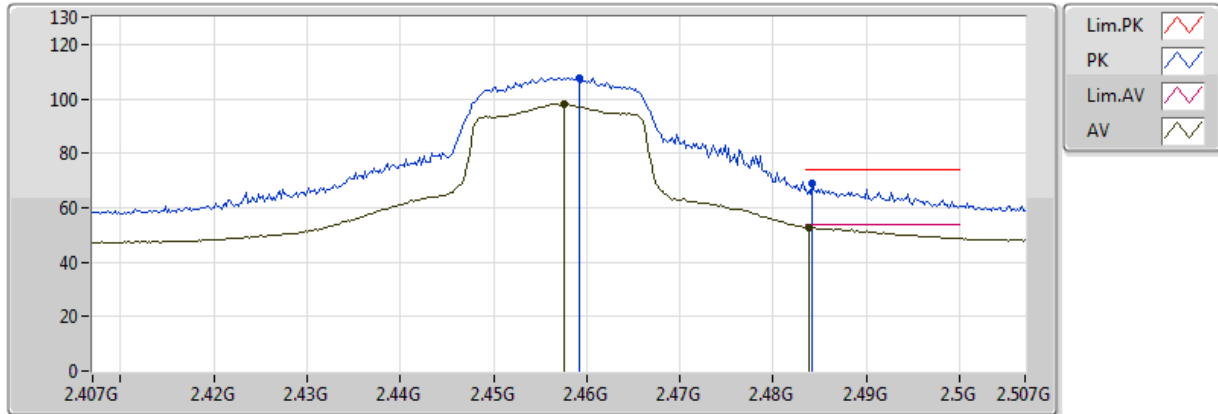
20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4564G	99.66	Inf	-Inf	32.36	3	Vertical	175	1.27
AV	2.4836G	51.69	54.00	-2.31	32.45	3	Vertical	175	1.27
PK	2.456G	109.30	Inf	-Inf	32.35	3	Vertical	175	1.27
PK	2.4852G	66.89	74.00	-7.11	32.45	3	Vertical	175	1.27



802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

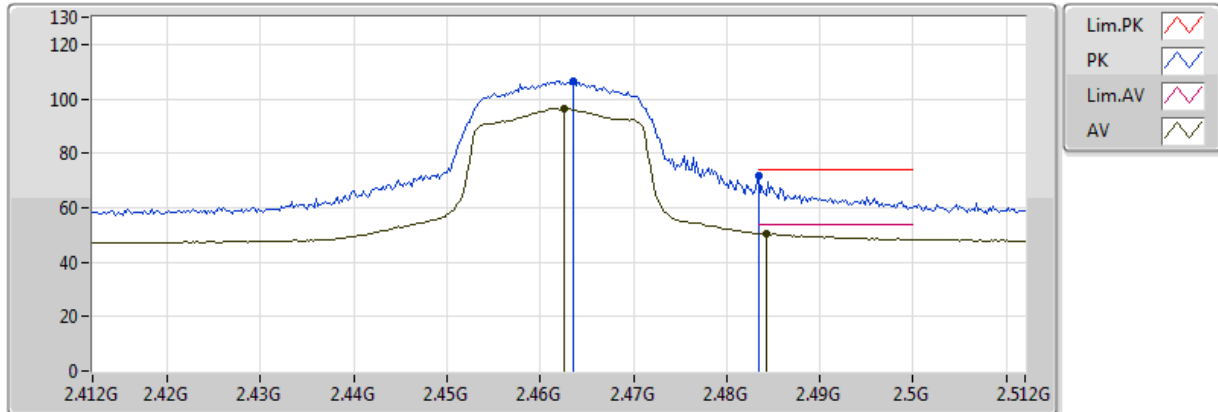


20171123
EUT_Z_1TX
Setting 80
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4576G	98.34	Inf	-Inf	32.36	3	Horizontal	290	2.12
AV	2.4838G	52.77	54.00	-1.23	32.45	3	Horizontal	290	2.12
PK	2.4592G	107.72	Inf	-Inf	32.37	3	Horizontal	290	2.12
PK	2.4842G	68.73	74.00	-5.27	32.45	3	Horizontal	290	2.12

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

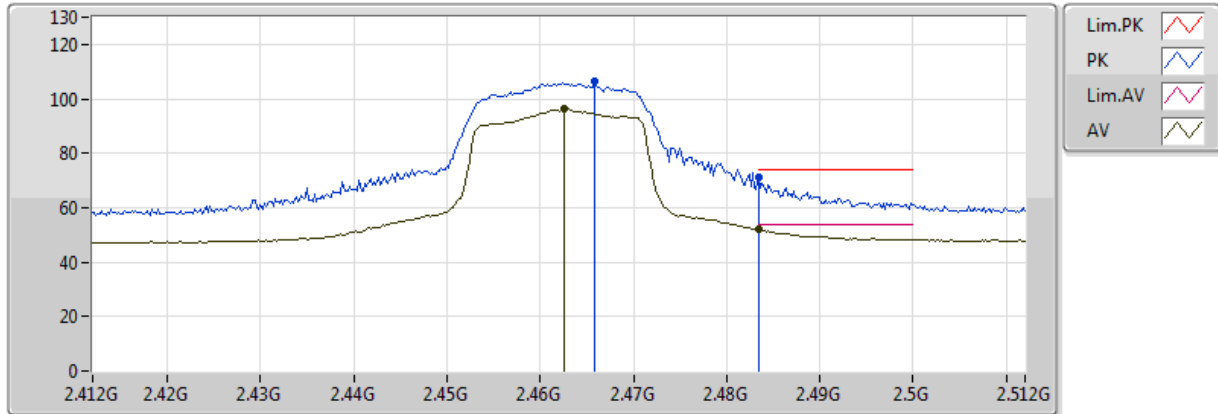


20171123
EUT_Z_1TX
Setting 69
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4626G	96.65	Inf	-Inf	32.38	3	Vertical	191	1.12
AV	2.4842G	50.42	54.00	-3.58	32.45	3	Vertical	191	1.12
PK	2.4636G	106.74	Inf	-Inf	32.38	3	Vertical	191	1.12
PK	2.483502G	71.50	74.00	-2.50	32.45	3	Vertical	191	1.12

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX



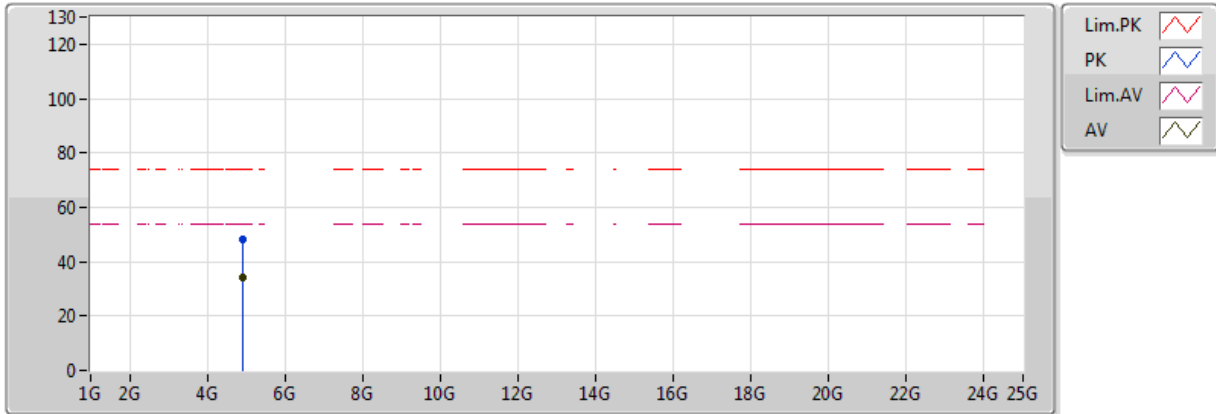
20171123
EUT_Z_1TX
Setting 69
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.4626G	96.38	Inf	-Inf	32.38	3	Horizontal	302	1.92
AV	2.483502G	52.21	54.00	-1.79	32.45	3	Horizontal	302	1.92
PK	2.4658G	106.47	Inf	-Inf	32.39	3	Horizontal	302	1.92
PK	2.483502G	70.91	74.00	-3.09	32.45	3	Horizontal	302	1.92



802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX



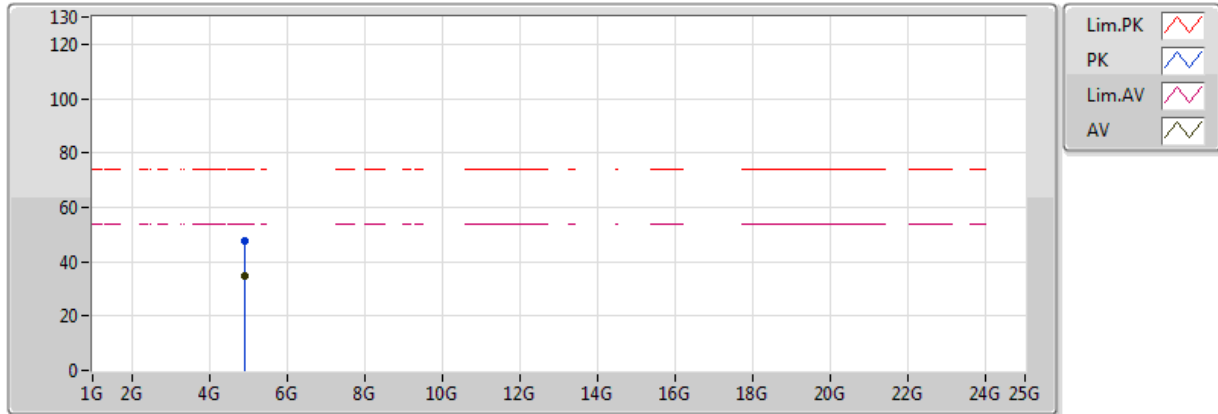
20171123
EUT_Z_1TX
Setting 69
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92349G	34.34	54.00	-19.66	9.38	3	Vertical	100	1.03
PK	4.92376G	48.41	74.00	-25.59	9.38	3	Vertical	100	1.03



802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

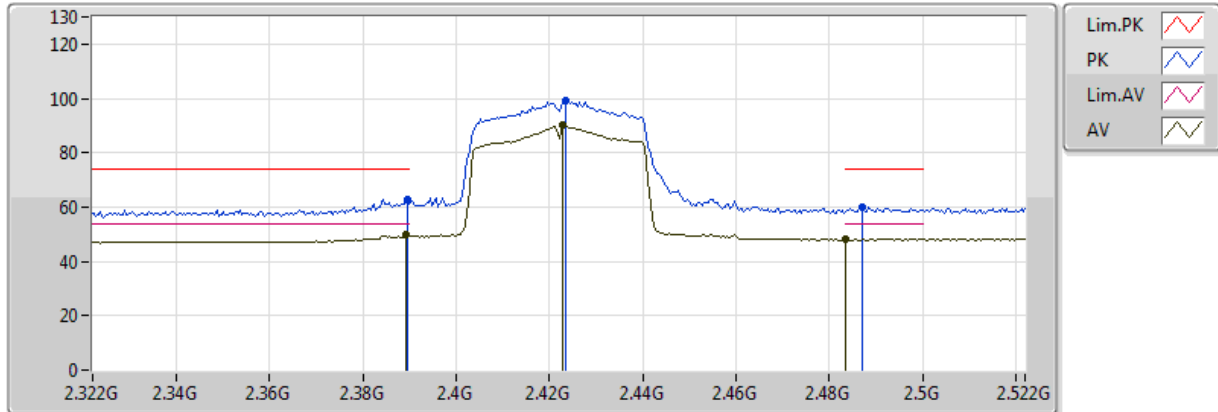


20171123
 EUT_Z_1TX
 Setting 69
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.92637G	34.58	54.00	-19.42	9.39	3	Horizontal	248	2.43
PK	4.92375G	47.50	74.00	-26.50	9.38	3	Horizontal	248	2.43

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

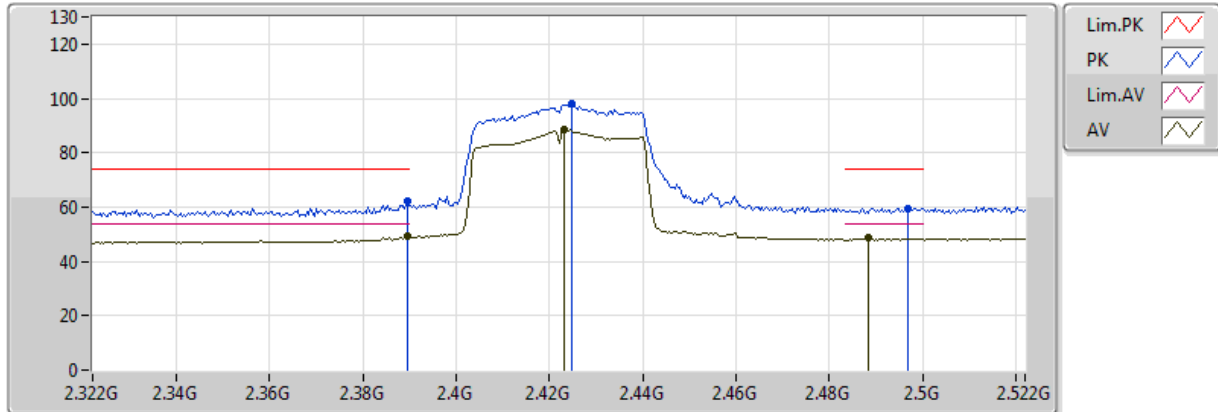


20171123
EUT_Z_1TX
Setting 55
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3892G	49.78	54.00	-4.22	32.14	3	Vertical	151	1.22
AV	2.4228G	90.33	Inf	-Inf	32.25	3	Vertical	151	1.22
AV	2.4836G	48.38	54.00	-5.62	32.45	3	Vertical	151	1.22
PK	2.3896G	62.87	74.00	-11.13	32.14	3	Vertical	151	1.22
PK	2.4236G	99.09	Inf	-Inf	32.25	3	Vertical	151	1.22
PK	2.4872G	60.06	74.00	-13.94	32.46	3	Vertical	151	1.22

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

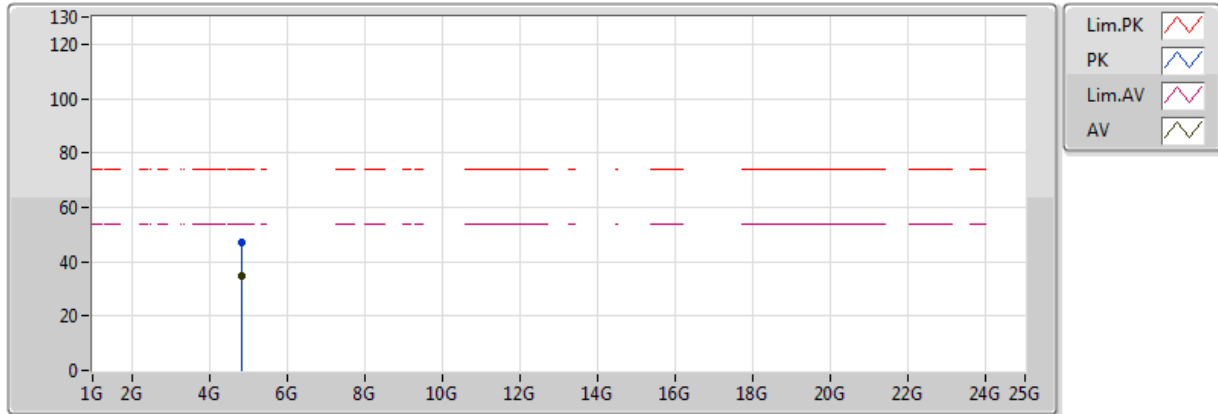


20171123
EUT_Z_1TX
Setting 55
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3896G	49.25	54.00	-4.75	32.14	3	Horizontal	284	2.17
AV	2.4232G	88.81	Inf	-Inf	32.25	3	Horizontal	284	2.17
AV	2.4884G	48.47	54.00	-5.53	32.46	3	Horizontal	284	2.17
PK	2.3896G	61.98	74.00	-12.02	32.14	3	Horizontal	284	2.17
PK	2.4248G	97.91	Inf	-Inf	32.25	3	Horizontal	284	2.17
PK	2.4968G	59.63	74.00	-14.37	32.49	3	Horizontal	284	2.17

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

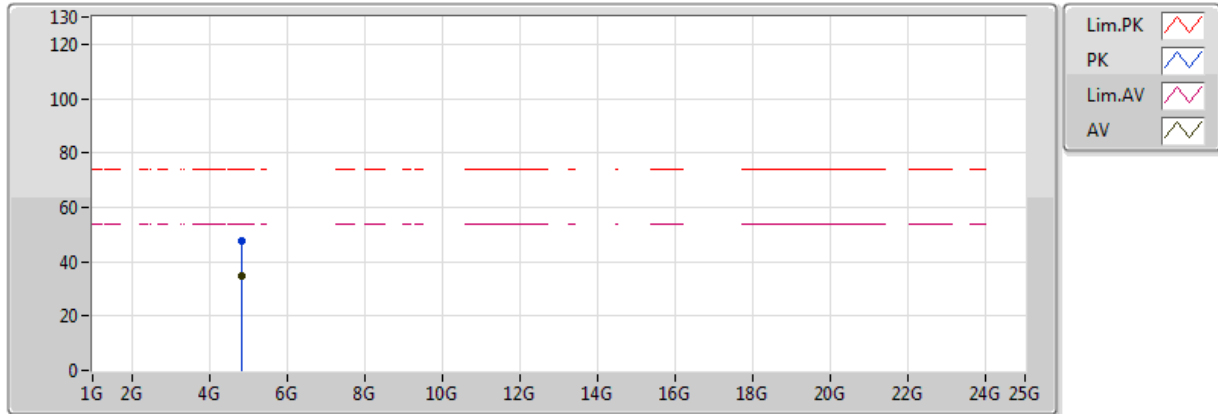


20171123
EUT_Z_1TX
Setting 55
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84291G	34.77	54.00	-19.23	9.23	3	Vertical	302	1.48
PK	4.84503G	47.27	74.00	-26.73	9.23	3	Vertical	302	1.48

802.11n HT40_Nss1,(MCS0)_1TX

2422MHz_TX

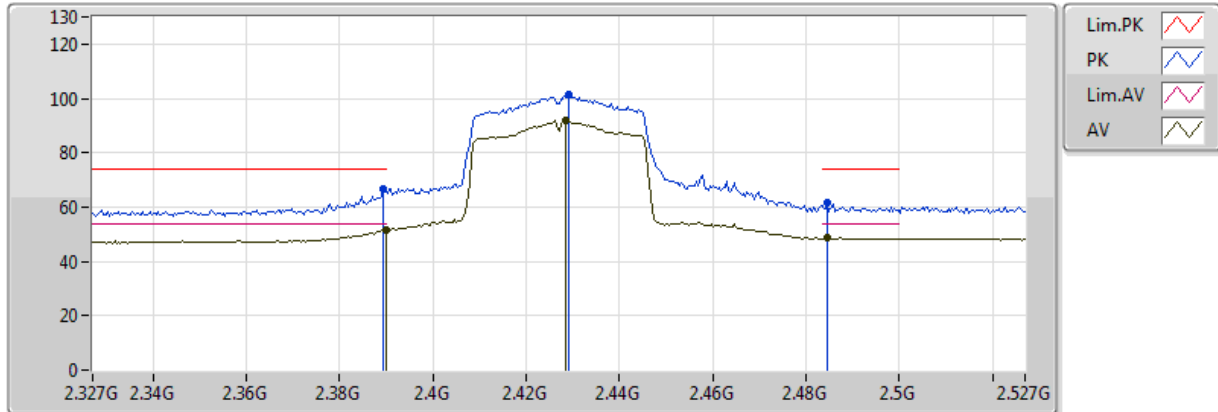


20171123
EUT_Z_1TX
Setting 55
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.84256G	34.79	54.00	-19.21	9.23	3	Horizontal	106	2.00
PK	4.84368G	47.80	74.00	-26.20	9.23	3	Horizontal	106	2.00

802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

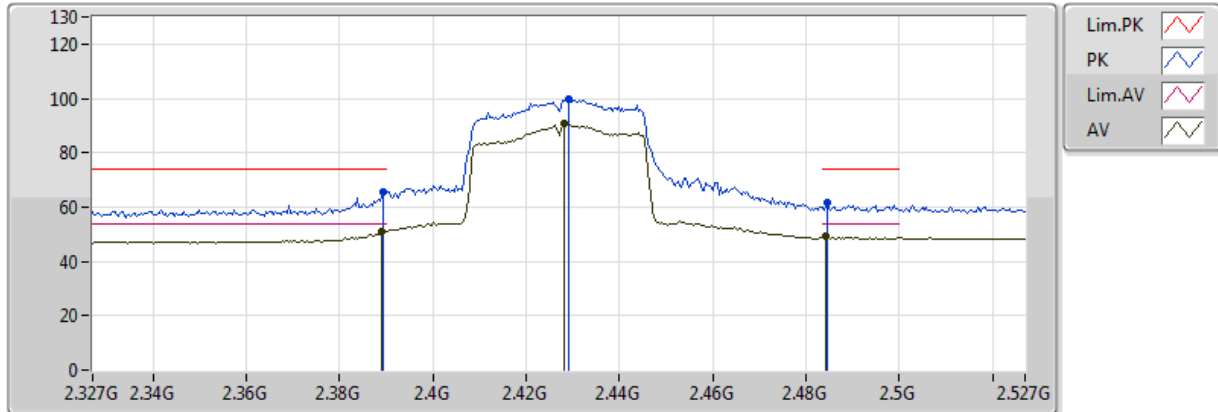


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	51.81	54.00	-2.19	32.14	3	Vertical	310	1.44
AV	2.4286G	91.84	Inf	-Inf	32.26	3	Vertical	310	1.44
AV	2.4846G	48.94	54.00	-5.06	32.45	3	Vertical	310	1.44
PK	2.3894G	66.46	74.00	-7.54	32.14	3	Vertical	310	1.44
PK	2.429G	101.17	Inf	-Inf	32.27	3	Vertical	310	1.44
PK	2.4846G	61.76	74.00	-12.24	32.45	3	Vertical	310	1.44

802.11n HT40_Nss1,(MCS0)_1TX

2427MHz_TX

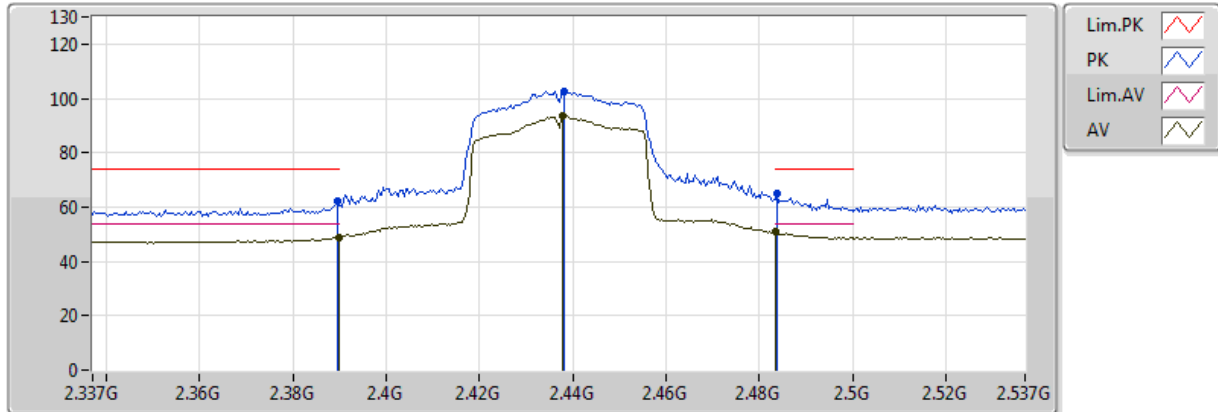


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389G	51.26	54.00	-2.74	32.14	3	Horizontal	269	2.01
AV	2.4282G	90.65	Inf	-Inf	32.26	3	Horizontal	269	2.01
AV	2.4842G	49.13	54.00	-4.87	32.45	3	Horizontal	269	2.01
PK	2.3894G	65.73	74.00	-8.27	32.14	3	Horizontal	269	2.01
PK	2.429G	99.67	Inf	-Inf	32.27	3	Horizontal	269	2.01
PK	2.4846G	61.41	74.00	-12.59	32.45	3	Horizontal	269	2.01

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

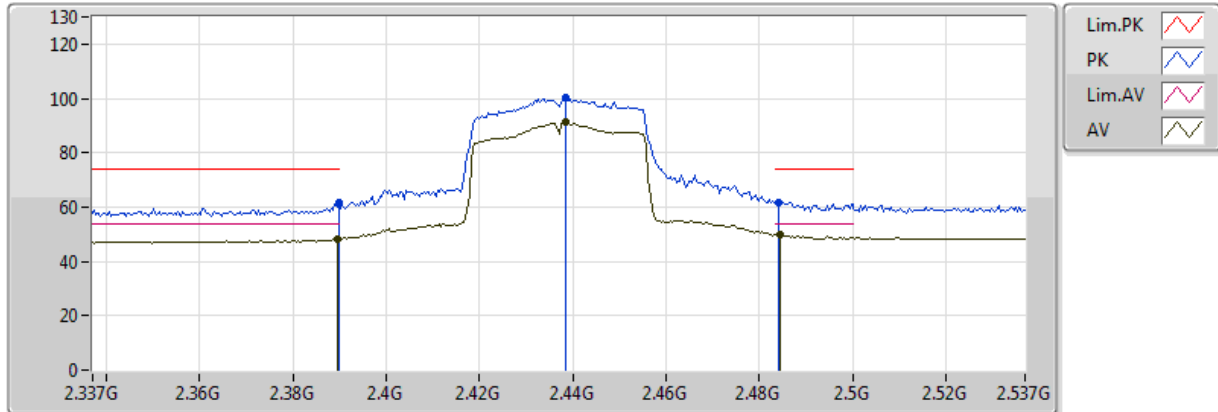


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.389998G	48.95	54.00	-5.05	32.14	3	Vertical	291	1.80
AV	2.4378G	93.76	Inf	-Inf	32.29	3	Vertical	291	1.80
AV	2.483502G	50.84	54.00	-3.16	32.45	3	Vertical	291	1.80
PK	2.3894G	62.26	74.00	-11.74	32.14	3	Vertical	291	1.80
PK	2.4382G	102.63	Inf	-Inf	32.30	3	Vertical	291	1.80
PK	2.4838G	65.11	74.00	-8.89	32.45	3	Vertical	291	1.80

802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX



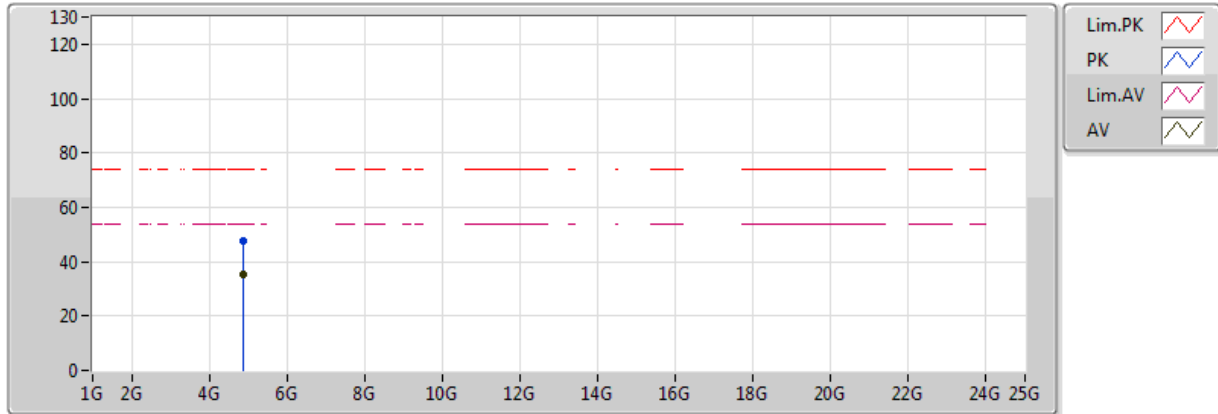
20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3894G	48.12	54.00	-5.88	32.14	3	Horizontal	276	1.93
AV	2.4386G	91.13	Inf	-Inf	32.30	3	Horizontal	276	1.93
AV	2.4846G	49.88	54.00	-4.12	32.45	3	Horizontal	276	1.93
PK	2.389998G	61.37	74.00	-12.63	32.14	3	Horizontal	276	1.93
PK	2.4386G	100.54	Inf	-Inf	32.30	3	Horizontal	276	1.93
PK	2.4842G	61.73	74.00	-12.27	32.45	3	Horizontal	276	1.93



802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX



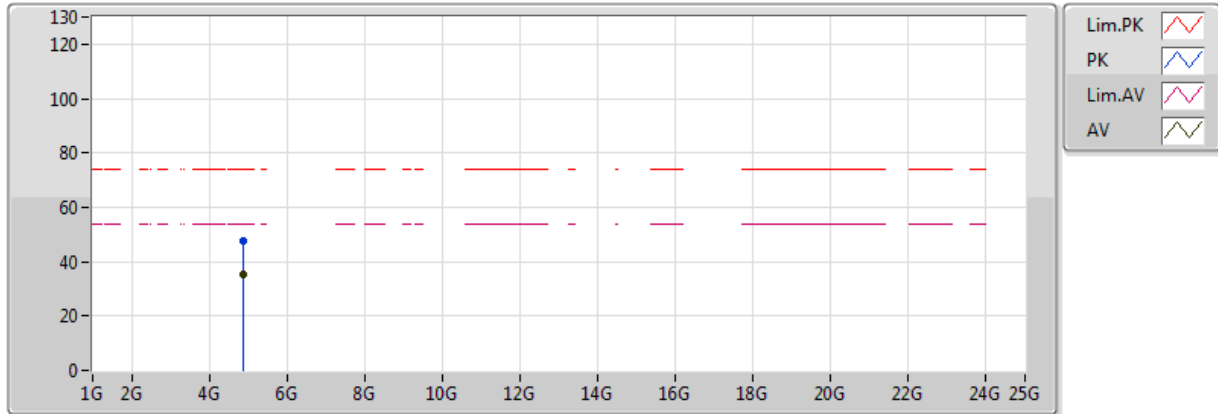
20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87514G	35.10	54.00	-18.90	9.29	3	Vertical	19	1.70
PK	4.876G	47.61	74.00	-26.39	9.29	3	Vertical	19	1.70



802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX

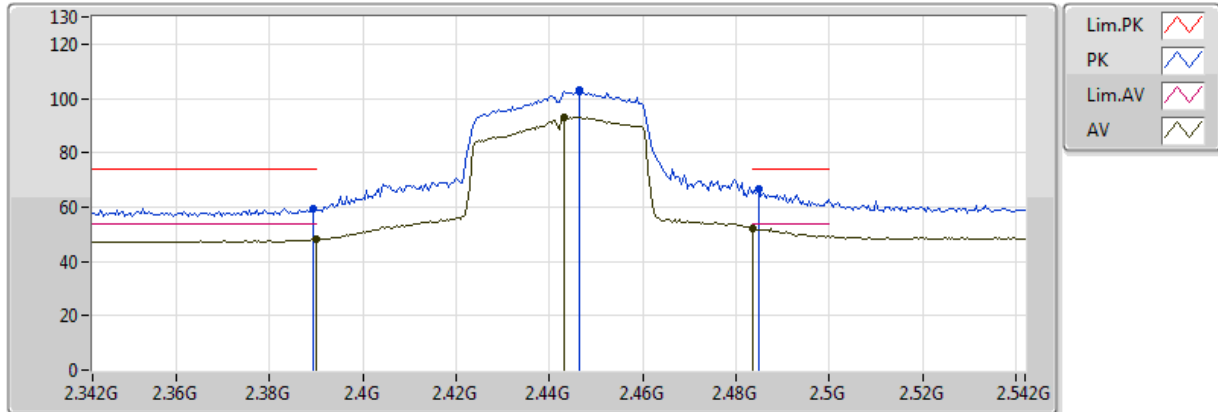


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.87401G	35.07	54.00	-18.93	9.29	3	Horizontal	45	1.91
PK	4.87516G	47.73	74.00	-26.27	9.29	3	Horizontal	45	1.91

802.11n HT40_Nss1,(MCS0)_1TX

2442MHz_TX

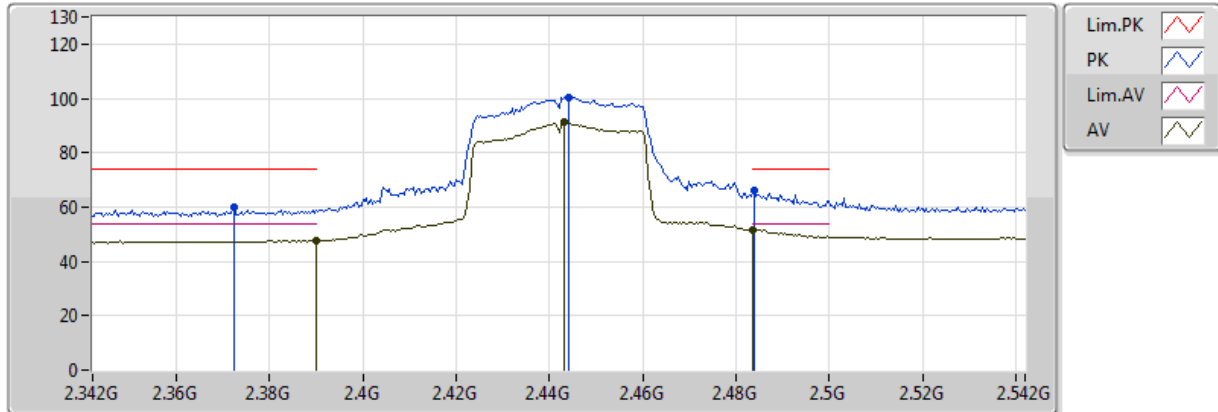


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	47.94	54.00	-6.06	32.14	3	Vertical	147	1.54
AV	2.4432G	93.28	Inf	-Inf	32.31	3	Vertical	147	1.54
AV	2.4836G	52.15	54.00	-1.85	32.45	3	Vertical	147	1.54
PK	2.3892G	59.40	74.00	-14.60	32.14	3	Vertical	147	1.54
PK	2.4464G	102.96	Inf	-Inf	32.32	3	Vertical	147	1.54
PK	2.4848G	66.72	74.00	-7.28	32.45	3	Vertical	147	1.54

802.11n HT40_Nss1,(MCS0)_1TX

2442MHz_TX

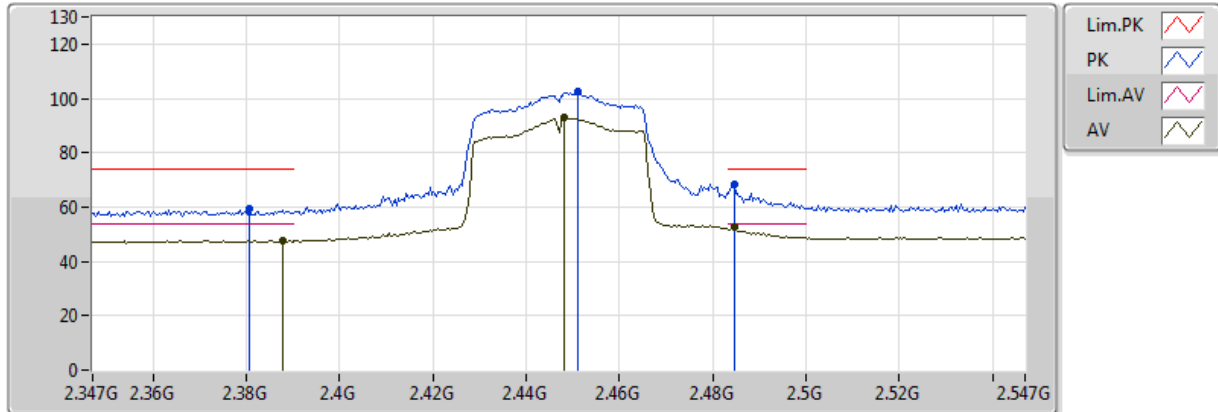


20171123
EUT_Z_1TX
Setting 68
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	47.81	54.00	-6.19	32.14	3	Horizontal	264	2.09
AV	2.4432G	91.39	Inf	-Inf	32.31	3	Horizontal	264	2.09
AV	2.4836G	51.71	54.00	-2.29	32.45	3	Horizontal	264	2.09
PK	2.3724G	59.72	74.00	-14.28	32.09	3	Horizontal	264	2.09
PK	2.444G	100.54	Inf	-Inf	32.32	3	Horizontal	264	2.09
PK	2.484G	66.01	74.00	-7.99	32.45	3	Horizontal	264	2.09

802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

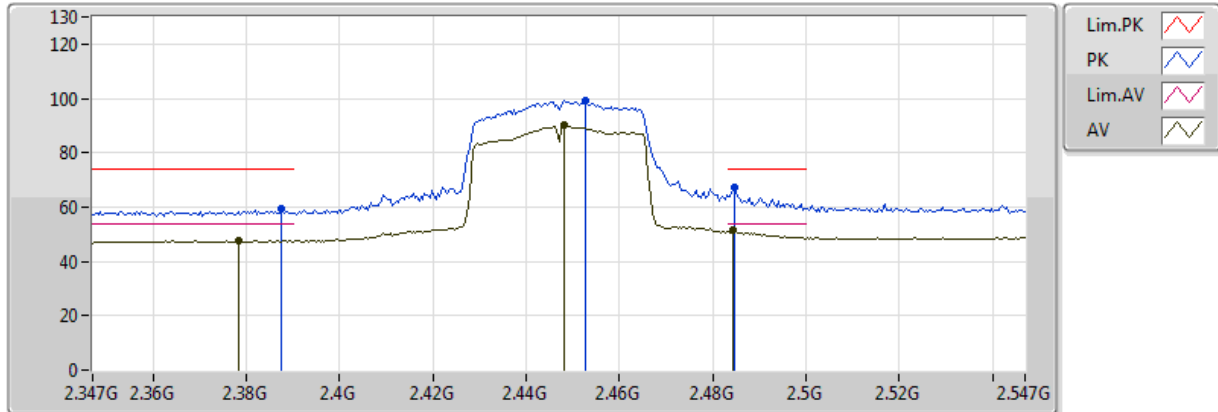


20171123
EUT_Z_1TX
Setting 62
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3878G	47.50	54.00	-6.50	32.13	3	Vertical	156	1.54
AV	2.4482G	93.28	Inf	-Inf	32.33	3	Vertical	156	1.54
AV	2.4846G	52.80	54.00	-1.20	32.45	3	Vertical	156	1.54
PK	2.3806G	59.15	74.00	-14.85	32.11	3	Vertical	156	1.54
PK	2.451G	102.50	Inf	-Inf	32.34	3	Vertical	156	1.54
PK	2.4846G	68.58	74.00	-5.42	32.45	3	Vertical	156	1.54

802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

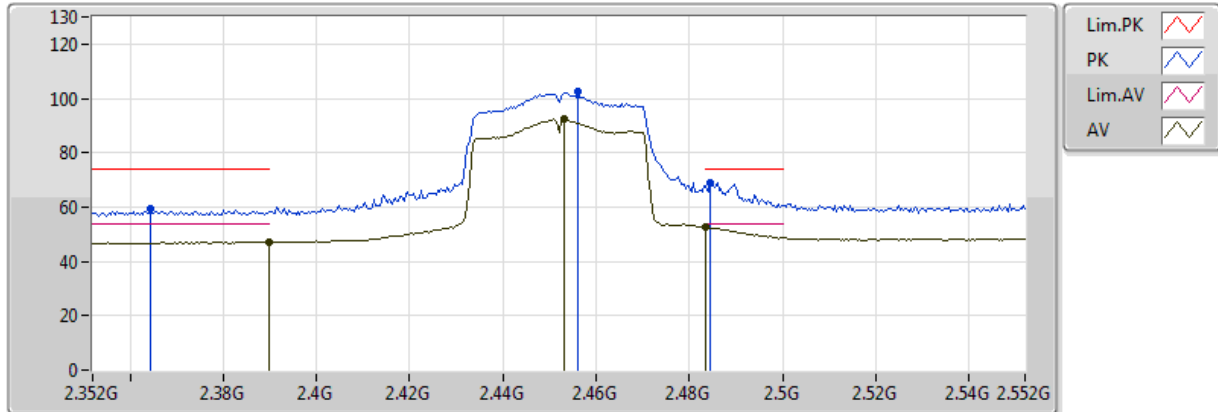


20171123
EUT_Z_1TX
Setting 62
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3782G	47.60	54.00	-6.40	32.10	3	Horizontal	265	2.11
AV	2.4482G	90.26	Inf	-Inf	32.33	3	Horizontal	265	2.11
AV	2.4842G	51.64	54.00	-2.36	32.45	3	Horizontal	265	2.11
PK	2.3874G	59.30	74.00	-14.70	32.13	3	Horizontal	265	2.11
PK	2.4526G	99.23	Inf	-Inf	32.34	3	Horizontal	265	2.11
PK	2.4846G	67.18	74.00	-6.82	32.45	3	Horizontal	265	2.11

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX

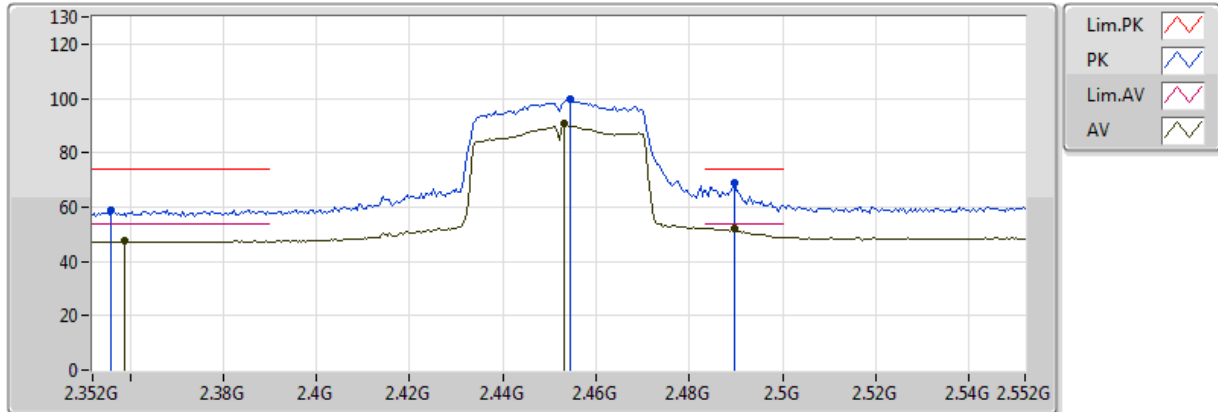


20171123
EUT_Z_1TX
Setting 63
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.39G	47.12	54.00	-6.88	32.14	3	Vertical	170	1.54
AV	2.4532G	92.57	Inf	-Inf	32.35	3	Vertical	170	1.54
AV	2.4836G	52.61	54.00	-1.39	32.45	3	Vertical	170	1.54
PK	2.3644G	59.36	74.00	-14.64	32.06	3	Vertical	170	1.54
PK	2.456G	102.29	Inf	-Inf	32.35	3	Vertical	170	1.54
PK	2.4844G	69.09	74.00	-4.91	32.45	3	Vertical	170	1.54

802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



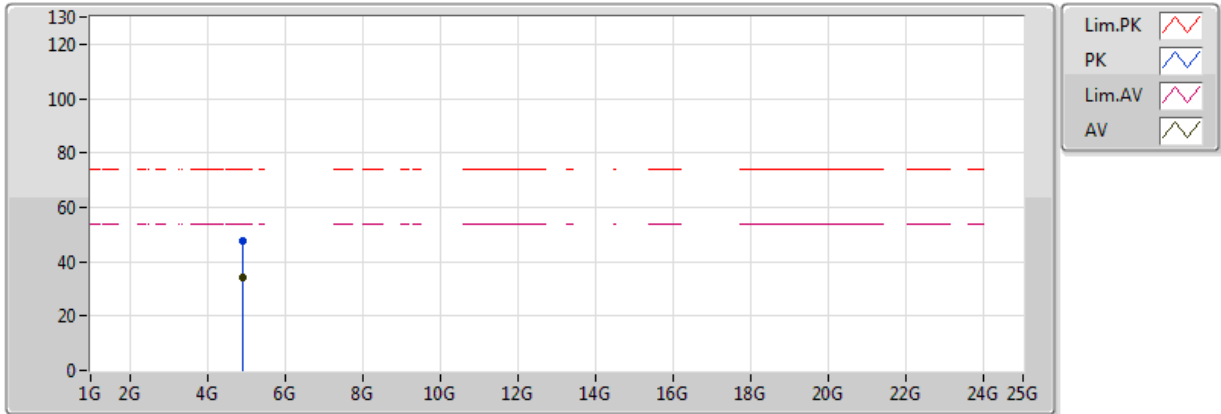
20171123
EUT_Z_1TX
Setting 63
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	2.3588G	47.62	54.00	-6.38	32.05	3	Horizontal	271	2.09
AV	2.4532G	90.50	Inf	-Inf	32.35	3	Horizontal	271	2.09
AV	2.4896G	52.29	54.00	-1.71	32.47	3	Horizontal	271	2.09
PK	2.356G	58.95	74.00	-15.05	32.04	3	Horizontal	271	2.09
PK	2.4544G	99.56	Inf	-Inf	32.35	3	Horizontal	271	2.09
PK	2.4896G	68.94	74.00	-5.06	32.47	3	Horizontal	271	2.09



802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



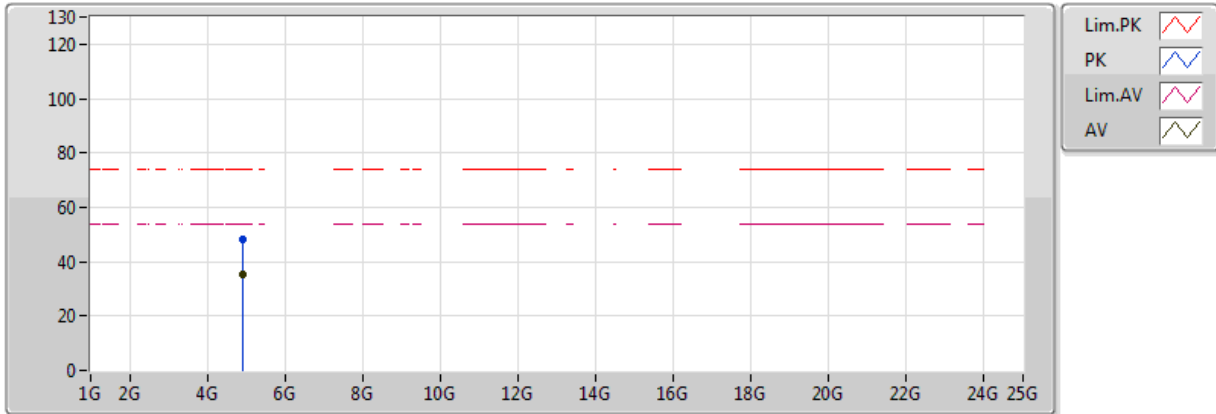
20171123
 EUT_Z_1TX
 Setting 63
 02-M-1
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.90564G	34.45	54.00	-19.55	9.35	3	Vertical	112	2.08
PK	4.9049G	47.86	74.00	-26.14	9.35	3	Vertical	112	2.08



802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



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EUT_Z_1TX
Setting 63
02-M-1
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
AV	4.9061G	35.15	54.00	-18.85	9.35	3	Horizontal	311	1.06
PK	4.90531G	48.15	74.00	-25.85	9.35	3	Horizontal	311	1.06

