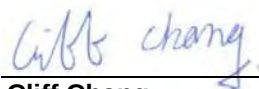


FCC Test Report

Equipment : Access Point
Brand Name : LITE-ON, MOJO
Model No. : WP8721, C-95
FCC ID : PPQ-WP8721
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : LITE-ON Technology Corp.
Bldg. C, 90, Chien 1 Rd., Chung-Ho, New Taipei City,
23585 Taiwan
Manufacturer : Lite-On Network Communication (Dongguan) Limited
30#Keji Rd., Yin Hu Industrial Area, Qingxi
Town, DongGuan City, Guangdong, China

The product sample received on Jun. 16, 2017 and completely tested on Jul. 01, 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(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

Note: For PoE mode: The PoE is for measurement only, would not be marketed, it's not necessary to apply to AC Power Port Conducted emission test.

Revision History

[illegible]

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(Port 1)
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model No.	Antenna Type	Connector	Gain (dBi)		
						2.4GHz	5GHz band 1	5GHz band 4
1	1	LITE-ON	WP8721	PIFA Antenna	I-PEX	5.9	-	-
2	2	LITE-ON	WP8721	PIFA Antenna	I-PEX	6.5	-	-
3	1	LITE-ON	WP8721	PIFA Antenna	I-PEX	-	6.0	6.6
4	2	LITE-ON	WP8721	PIFA Antenna	I-PEX	-	6.3	6.5

Note: The EUT has four antennas.

For 2.4GHz function:

For IEEE 802.11b mode (1TX/1RX):

Only Ant. 1 can be used as transmitting/receiving antenna.

For IEEE 802.11g/n mode (2TX/2RX):

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

Ant. 1, and Ant. 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX):

Ant. 3, and Ant. 4 can be used as transmitting/receiving antenna.

Ant. 3, and Ant. 4 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT20	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT40	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter or PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming

1.1.5 Table for Multiple Listing

1. The EUT has two model numbers and two brand names which are identical to each other in all aspects except for the following table:

Brand Name	Model No.	Description
LITE-ON	WP8721	All the models are identical, the difference model for difference model numbers and brand names served as marketing strategy.
MOJO	C-95	

From the above models, model: WP8721 was selected as representative model for the test and its data was recorded in this report.

2. The EUT has two sources of thermal pads. Please refer to the following table for detail information.

Thermal Pads	Photo
Main source	
Second source	

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	Serway Li	20°C / 50%	Jul. 01, 2017
Radiated	03CH01-CB	Owen Hsu, Welson Chen	22°C / 54%	May 20, 201~Jun. 29, 2017
AC Conduction	CO01-CB	GN Hou	22°C / 55%	Jun. 29, 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)_1TX	-
2412MHz	45
2437MHz	45
2462MHz	46
802.11g_(6Mbps)_2TX	-
2412MHz	46/45
2437MHz	47/46
2462MHz	48/47
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	47/46
2437MHz	47/46
2462MHz	48/47
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	46/46
2437MHz	47/46
2452MHz	48/47

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT (main source thermal pad) + Adapter

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT Y axis (main source thermal pad) + Adapter
2	EUT Z axis (main source thermal pad) + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT Y axis (second source thermal pad) + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT Y axis (main source thermal pad) + PoE
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
There are two sources of thermal pads. After evaluating, second source thermal pad has been evaluated to be the worst case, so it was selected to test and record in this test report.	
The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA761520 for Co-location RF Exposure Evaluation.	

Note: 1. All the specification of test configurations and test modes were based on customer's request.
 2. The PoE is for measurement only, would not be marketed.

Support Equipment			
Equipment	Brand Name	Model Name	FCC ID
PoE	PowerDsine	7001G	N/A

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			
Power	Brand	Model	Rating
Adapter	APD	WB-18D12FU	Input: 100-240V~50-60Hz, 0.5A Max. Output: 12V, 1.5A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E6430	DoC
2	Flash disk	Silicon	I-Series	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E4300	DoC
2	Flash disk	Silicon	I-Series	DoC

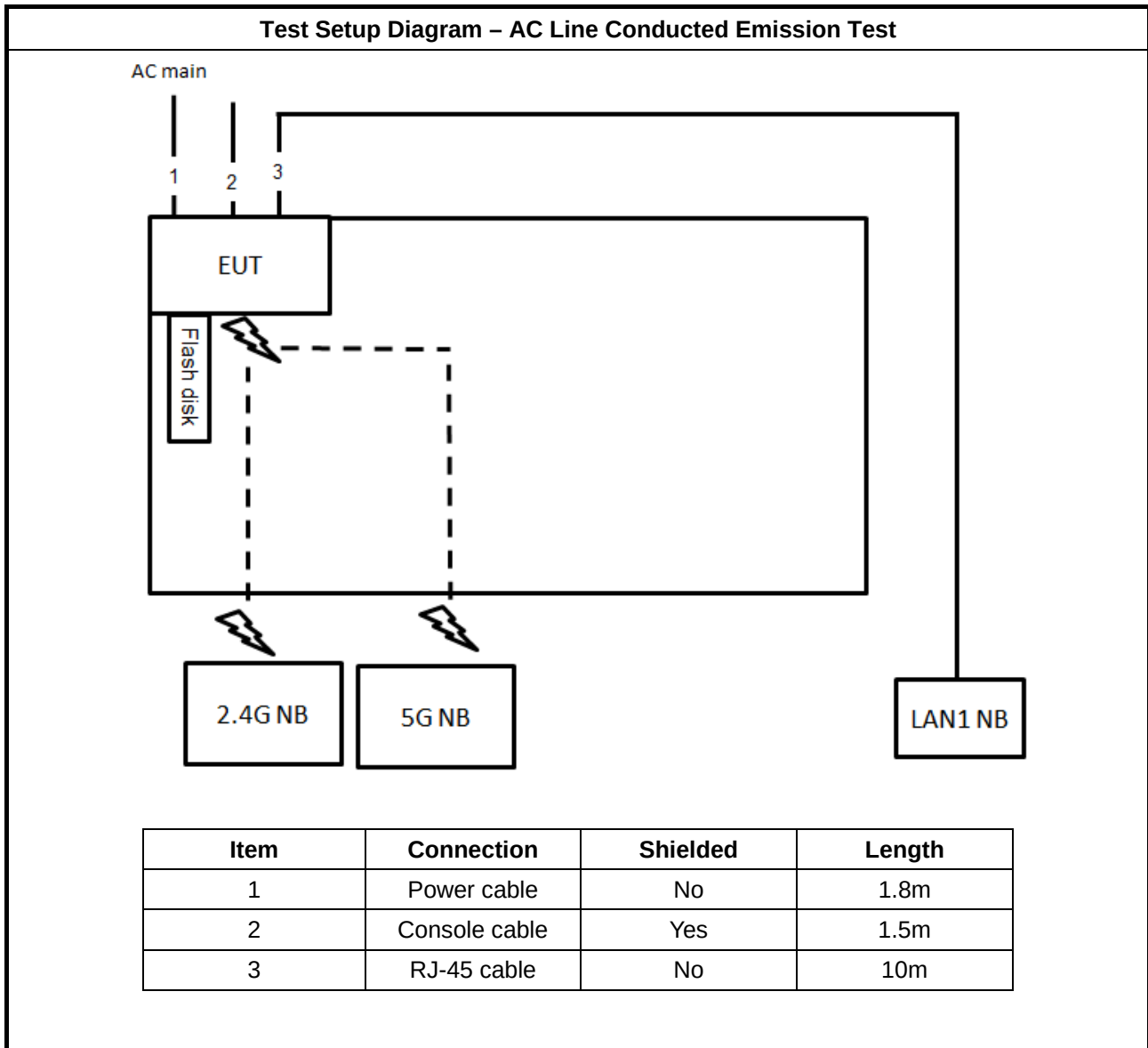
For Test Site No: 03CH01-CB (above 1GHz)

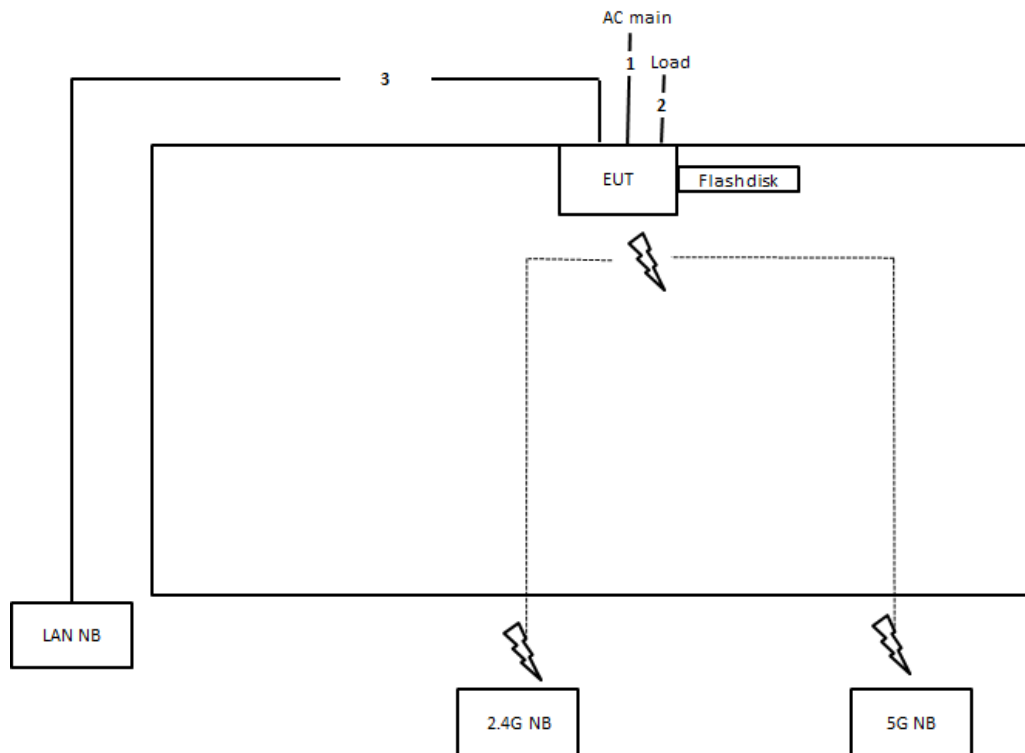
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	PoE	PowerDsine	7001G	N/A

For Test Site No: TH01-CB

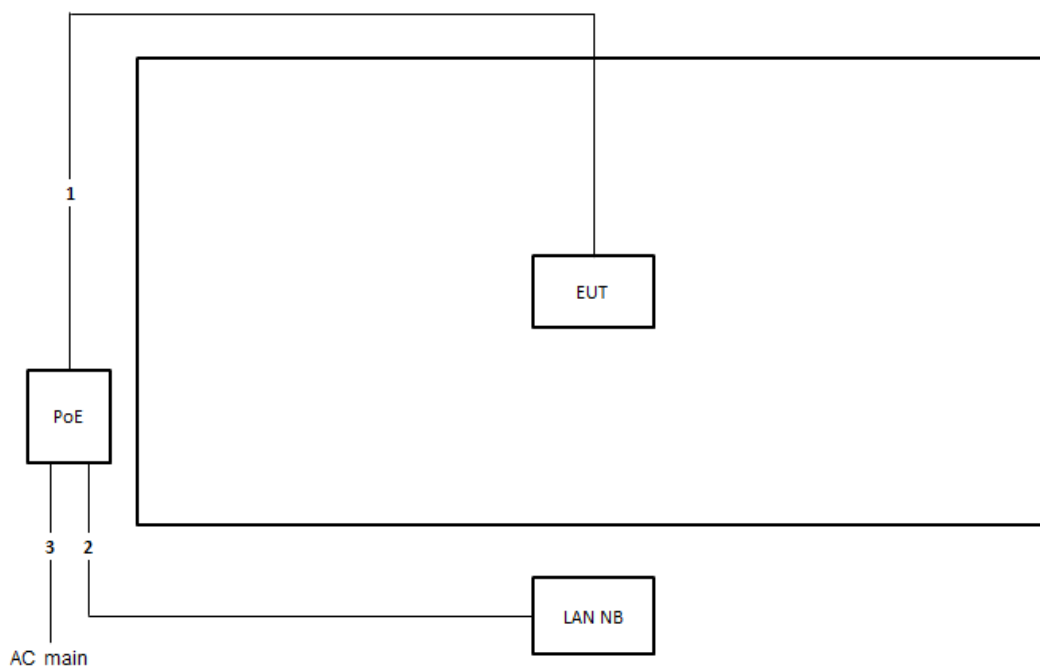
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	0.6m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

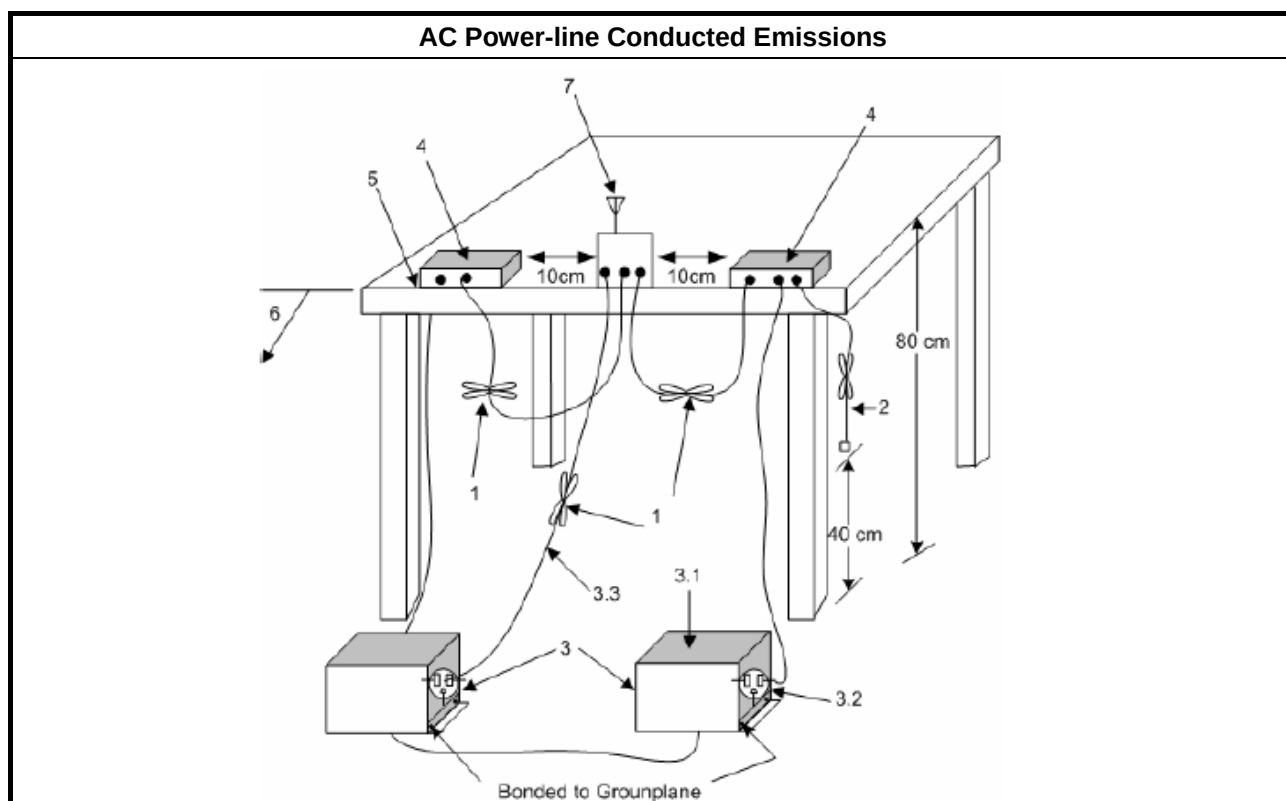
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

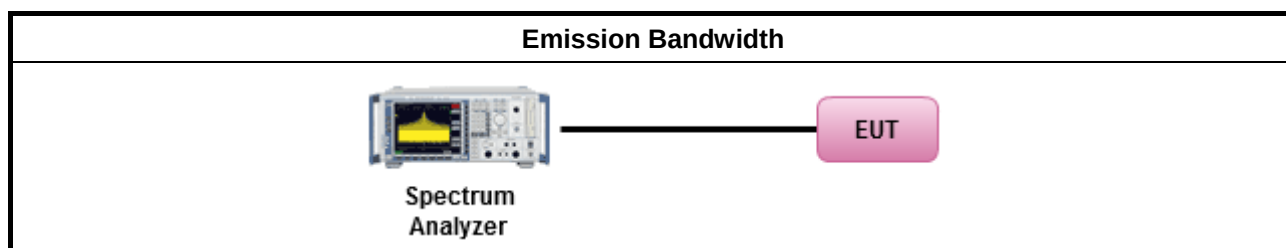
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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



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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ 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.	

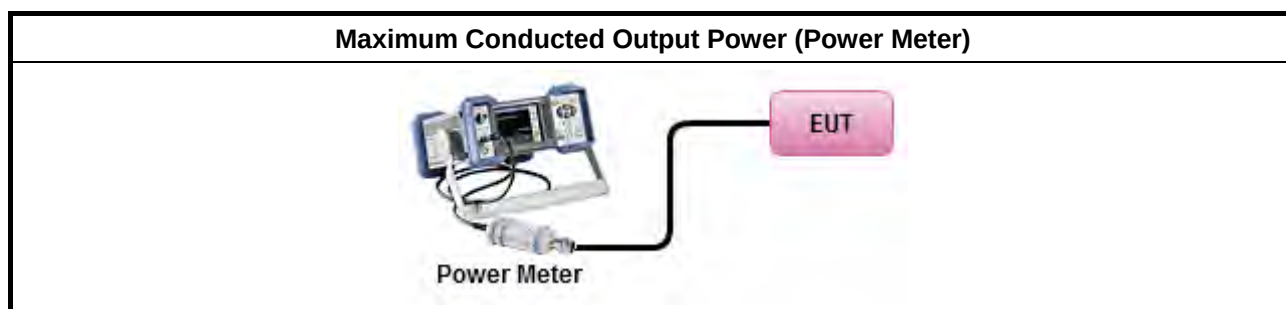
3.3.2 Measuring Instruments

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

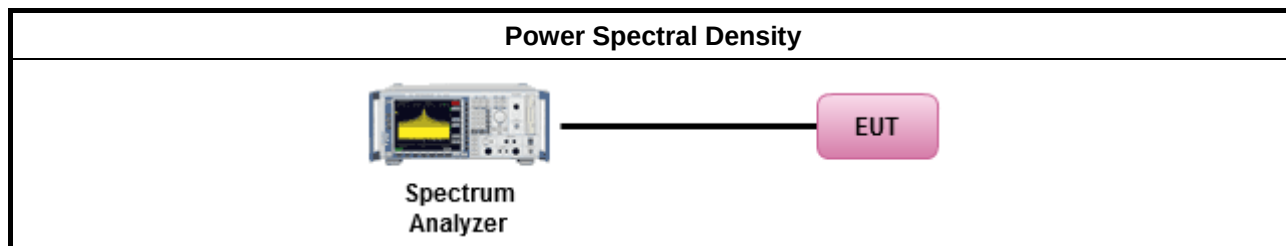
3.4.2 Measuring Instruments

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 $\geq$ 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



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.	

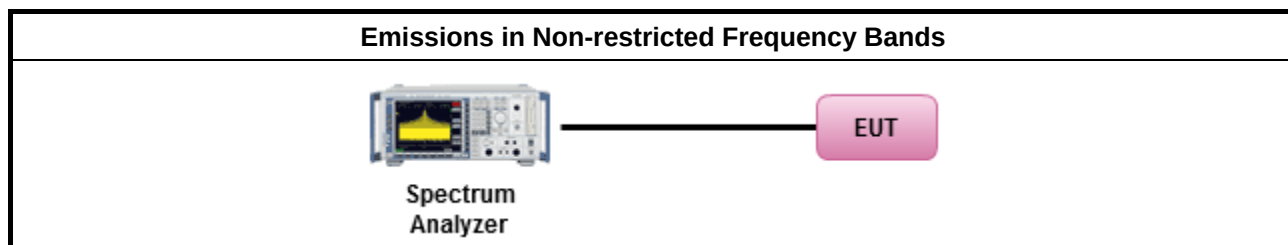
3.5.2 Measuring Instruments

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



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

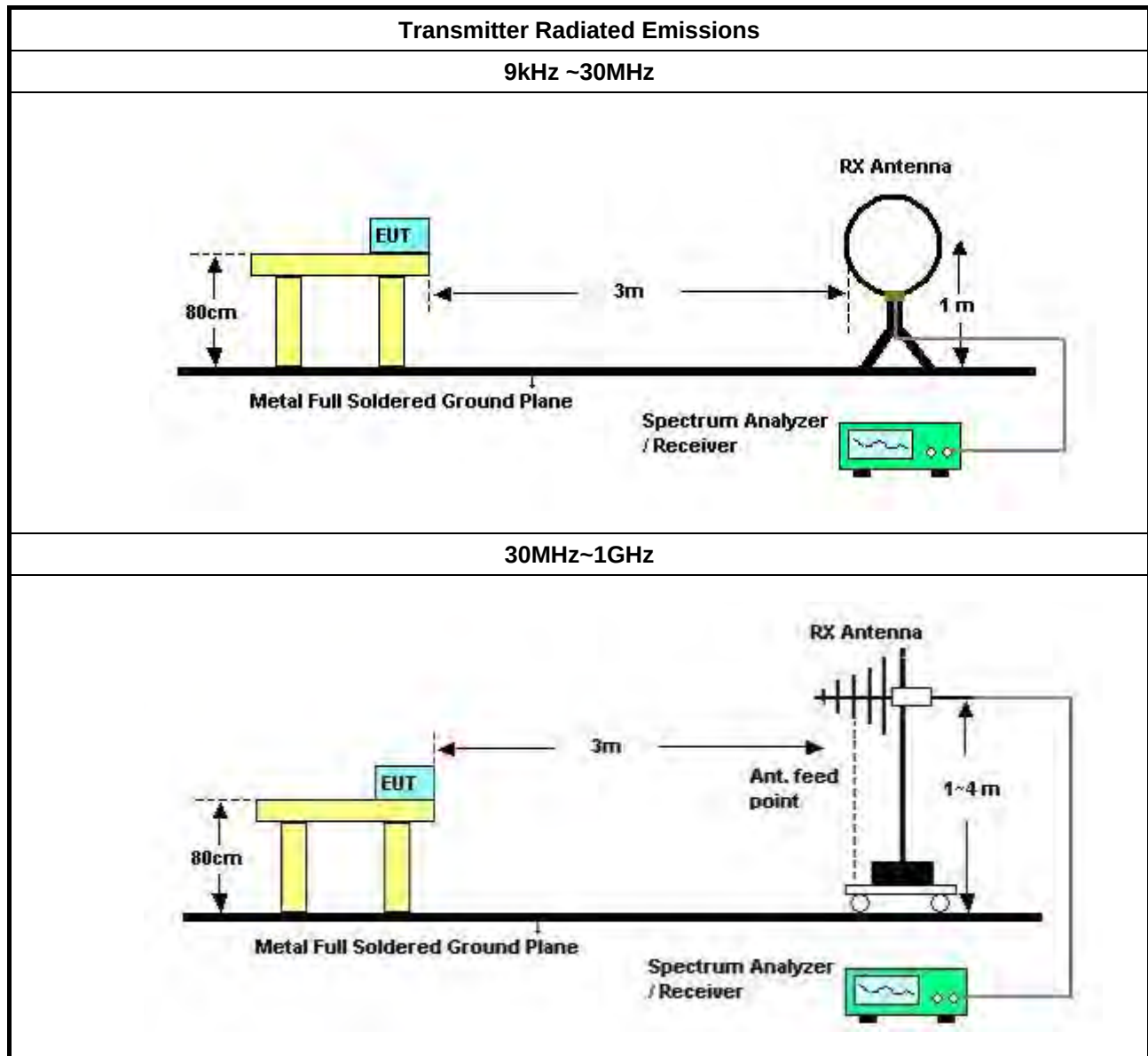
3.6.2 Measuring Instruments

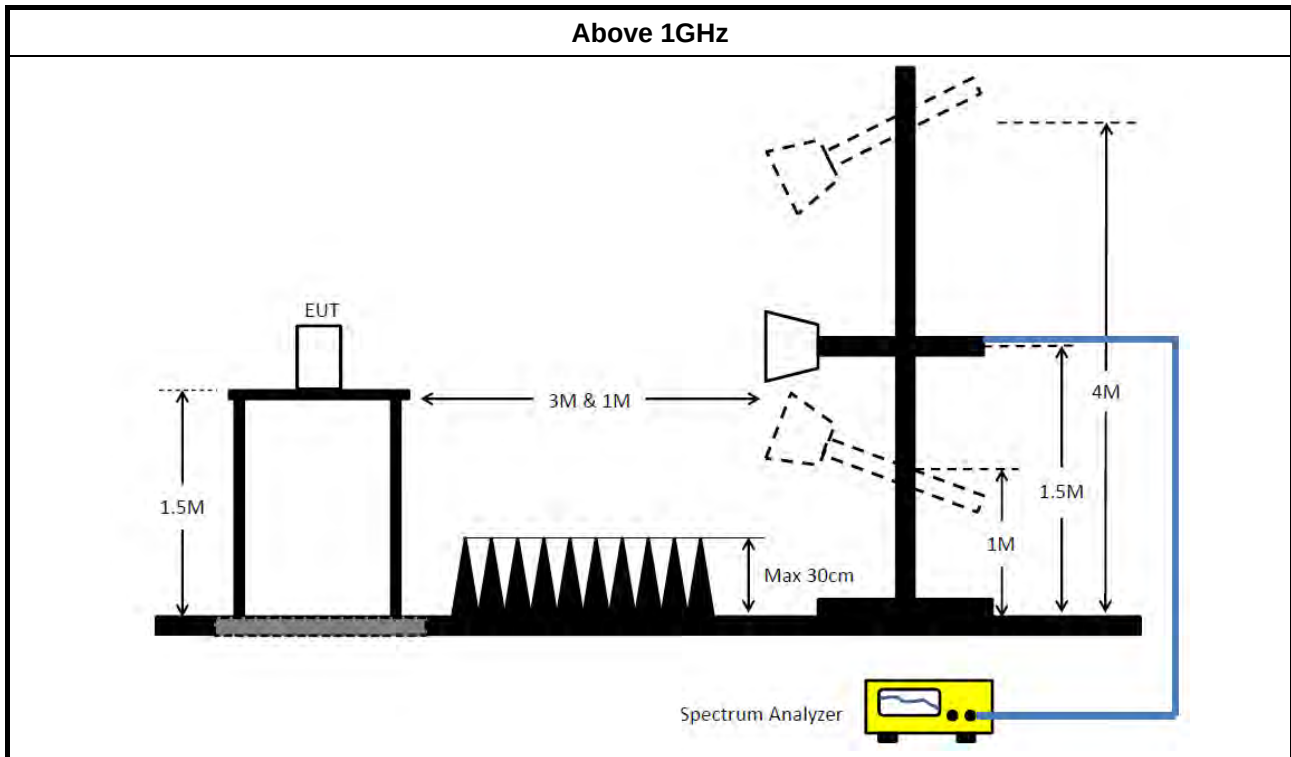
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	☐ 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 $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, 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





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)



FCC Test Report

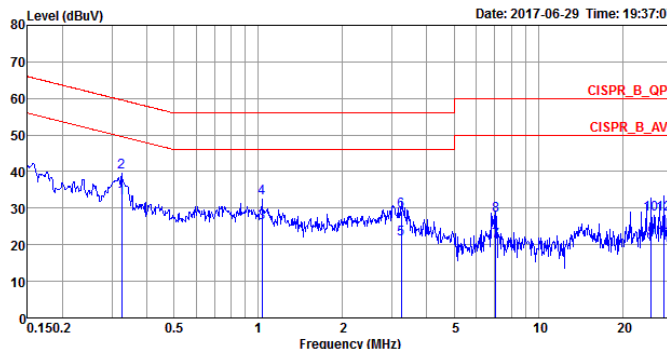
Report No. : FR761520AA

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

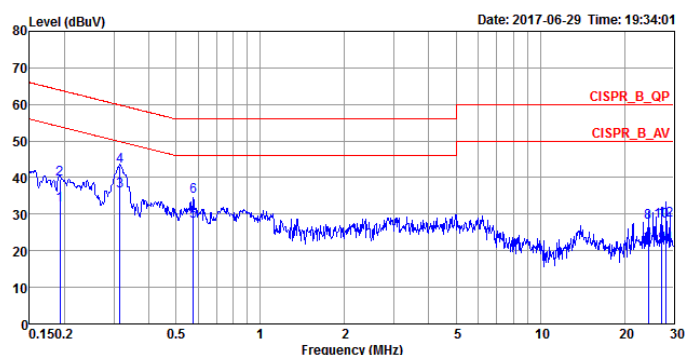
“*” Calibration Interval of instruments listed above is two years.

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

AC Power-line Conducted Emissions Result																																																																																																																																																			
Operating Mode		1			Power Phase		Neutral																																																																																																																																												
Operating Function		Normal Link																																																																																																																																																	
Level (dBuV)  Date: 2017-06-29 Time: 19:37:07 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>LISN</th><th>Cable</th><th rowspan="2">Remark</th><th rowspan="2">Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th></tr><tr><td>1</td><td>0.3251</td><td>32.68</td><td>-16.89</td><td>49.57</td><td>22.67</td><td>9.97</td><td>0.04</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>2</td><td>0.3251</td><td>39.85</td><td>-19.72</td><td>59.57</td><td>29.84</td><td>9.97</td><td>0.04</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>3</td><td>1.0320</td><td>25.96</td><td>-20.04</td><td>46.00</td><td>15.91</td><td>9.99</td><td>0.06</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>4</td><td>1.0320</td><td>32.67</td><td>-23.33</td><td>56.00</td><td>22.62</td><td>9.99</td><td>0.06</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>5</td><td>3.2411</td><td>21.66</td><td>-24.34</td><td>46.00</td><td>11.51</td><td>10.04</td><td>0.11</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>6</td><td>3.2411</td><td>29.20</td><td>-26.80</td><td>56.00</td><td>19.05</td><td>10.04</td><td>0.11</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>7</td><td>7.0622</td><td>20.97</td><td>-29.03</td><td>50.00</td><td>10.68</td><td>10.13</td><td>0.16</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>8</td><td>7.0622</td><td>27.93</td><td>-32.07</td><td>60.00</td><td>17.64</td><td>10.13</td><td>0.16</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>9</td><td>25.3214</td><td>21.56</td><td>-28.44</td><td>50.00</td><td>10.97</td><td>10.32</td><td>0.27</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>10</td><td>25.3214</td><td>28.25</td><td>-31.75</td><td>60.00</td><td>17.66</td><td>10.32</td><td>0.27</td><td>QP</td><td>NEUTRAL</td></tr><tr><td>11</td><td>28.1520</td><td>21.66</td><td>-28.34</td><td>50.00</td><td>11.04</td><td>10.33</td><td>0.29</td><td>Average</td><td>NEUTRAL</td></tr><tr><td>12</td><td>28.1520</td><td>28.33</td><td>-31.67</td><td>60.00</td><td>17.71</td><td>10.33</td><td>0.29</td><td>QP</td><td>NEUTRAL</td></tr></table>											Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase		MHz	dBuV	Limit	Line	Level	Factor	Loss	1	0.3251	32.68	-16.89	49.57	22.67	9.97	0.04	Average	NEUTRAL	2	0.3251	39.85	-19.72	59.57	29.84	9.97	0.04	QP	NEUTRAL	3	1.0320	25.96	-20.04	46.00	15.91	9.99	0.06	Average	NEUTRAL	4	1.0320	32.67	-23.33	56.00	22.62	9.99	0.06	QP	NEUTRAL	5	3.2411	21.66	-24.34	46.00	11.51	10.04	0.11	Average	NEUTRAL	6	3.2411	29.20	-26.80	56.00	19.05	10.04	0.11	QP	NEUTRAL	7	7.0622	20.97	-29.03	50.00	10.68	10.13	0.16	Average	NEUTRAL	8	7.0622	27.93	-32.07	60.00	17.64	10.13	0.16	QP	NEUTRAL	9	25.3214	21.56	-28.44	50.00	10.97	10.32	0.27	Average	NEUTRAL	10	25.3214	28.25	-31.75	60.00	17.66	10.32	0.27	QP	NEUTRAL	11	28.1520	21.66	-28.34	50.00	11.04	10.33	0.29	Average	NEUTRAL	12	28.1520	28.33	-31.67	60.00	17.71	10.33	0.29	QP	NEUTRAL
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark	Pol/Phase																																																																																																																																										
	MHz	dBuV	Limit	Line	Level	Factor	Loss																																																																																																																																												
1	0.3251	32.68	-16.89	49.57	22.67	9.97	0.04	Average	NEUTRAL																																																																																																																																										
2	0.3251	39.85	-19.72	59.57	29.84	9.97	0.04	QP	NEUTRAL																																																																																																																																										
3	1.0320	25.96	-20.04	46.00	15.91	9.99	0.06	Average	NEUTRAL																																																																																																																																										
4	1.0320	32.67	-23.33	56.00	22.62	9.99	0.06	QP	NEUTRAL																																																																																																																																										
5	3.2411	21.66	-24.34	46.00	11.51	10.04	0.11	Average	NEUTRAL																																																																																																																																										
6	3.2411	29.20	-26.80	56.00	19.05	10.04	0.11	QP	NEUTRAL																																																																																																																																										
7	7.0622	20.97	-29.03	50.00	10.68	10.13	0.16	Average	NEUTRAL																																																																																																																																										
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9	25.3214	21.56	-28.44	50.00	10.97	10.32	0.27	Average	NEUTRAL																																																																																																																																										
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11	28.1520	21.66	-28.34	50.00	11.04	10.33	0.29	Average	NEUTRAL																																																																																																																																										
12	28.1520	28.33	-31.67	60.00	17.71	10.33	0.29	QP	NEUTRAL																																																																																																																																										
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																																																			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark	Pol/Phase
			dB	dBuV	dBuV	dB	dB		
1	0.1924	32.45	-21.48	53.93	22.47	9.93	0.05	Average	LINE
2	0.1924	39.56	-24.37	63.93	29.58	9.93	0.05	QP	LINE
3	0.3149	36.26	-13.58	49.84	26.32	9.90	0.04	Average	LINE
4	0.3149	43.18	-16.66	59.84	33.24	9.90	0.04	QP	LINE
5	0.5762	28.07	-17.93	46.00	18.10	9.92	0.05	Average	LINE
6	0.5762	34.71	-21.29	56.00	24.74	9.92	0.05	QP	LINE
7	24.2706	21.13	-28.87	50.00	10.56	10.30	0.27	Average	LINE
8	24.2706	27.72	-32.28	60.00	17.15	10.30	0.27	QP	LINE
9	27.1270	21.53	-28.47	50.00	10.91	10.34	0.28	Average	LINE
10	27.1270	28.09	-31.91	60.00	17.47	10.34	0.28	QP	LINE
11	28.1520	21.51	-28.49	50.00	10.87	10.35	0.29	Average	LINE
12	28.1520	28.41	-31.59	60.00	17.77	10.35	0.29	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)_1TX	-	-	-	-	-
2.4-2.4835GHz	10.05M	14.718M	14M7G1D	10.05M	14.668M
802.11g_(6Mbps)_2TX	-	-	-	-	-
2.4-2.4835GHz	16.475M	16.442M	16M4D1D	16.4M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-
2.4-2.4835GHz	17.575M	17.491M	17M5D1D	17.525M	17.466M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-
2.4-2.4835GHz	36.35M	36.032M	36M0D1D	36.35M	35.932M

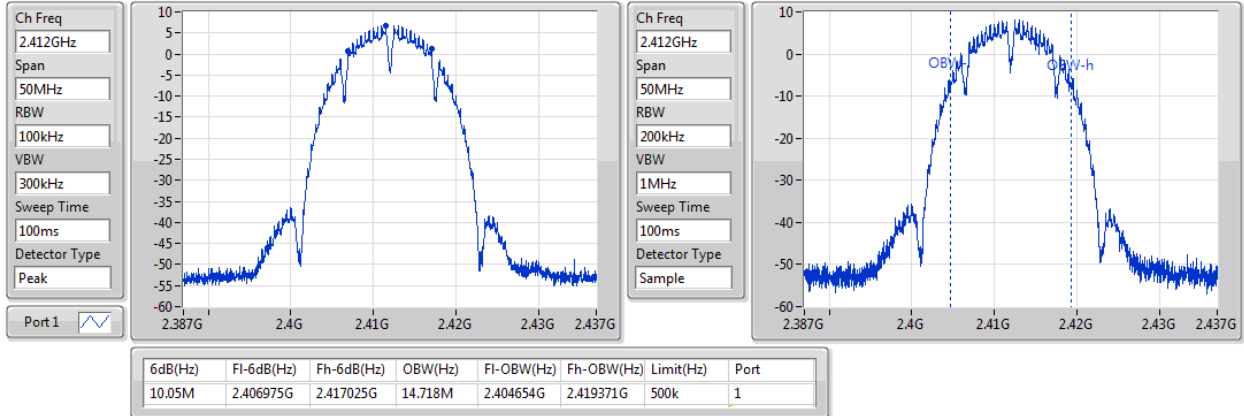
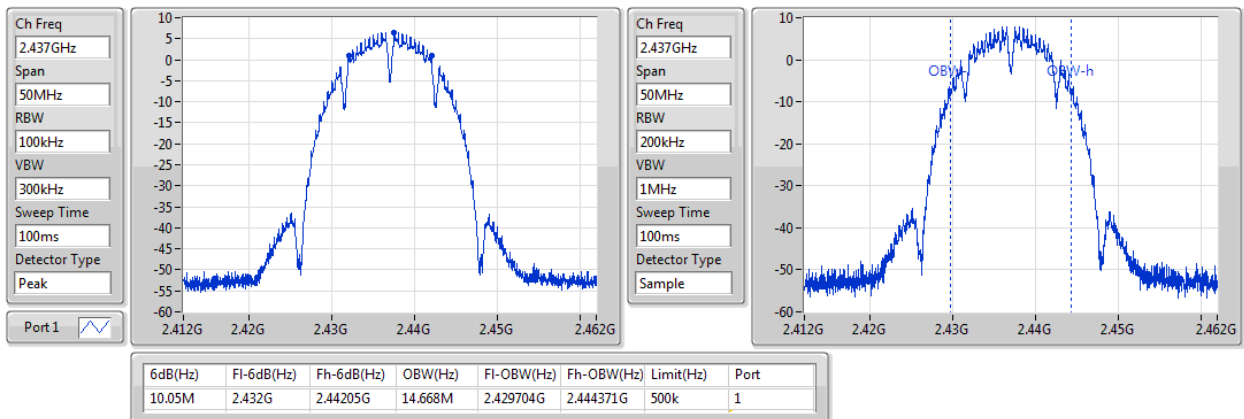
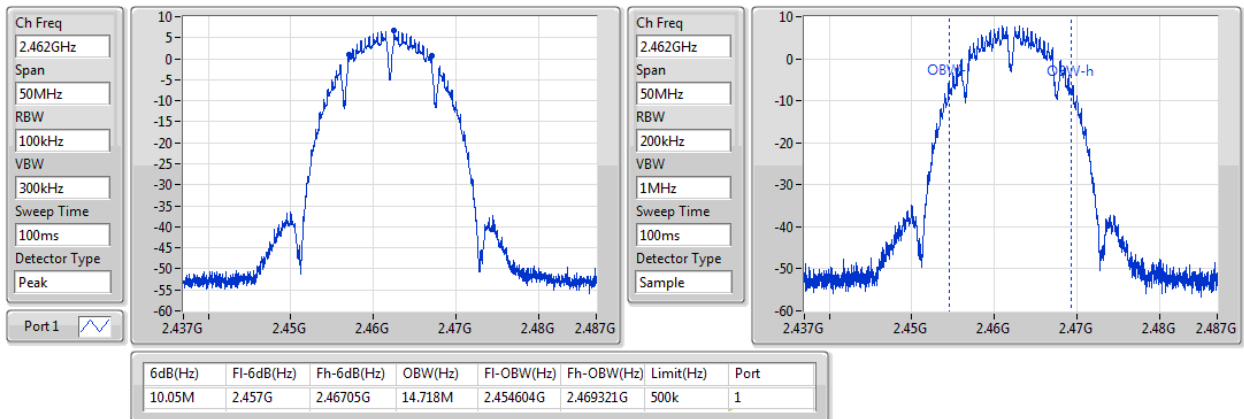
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

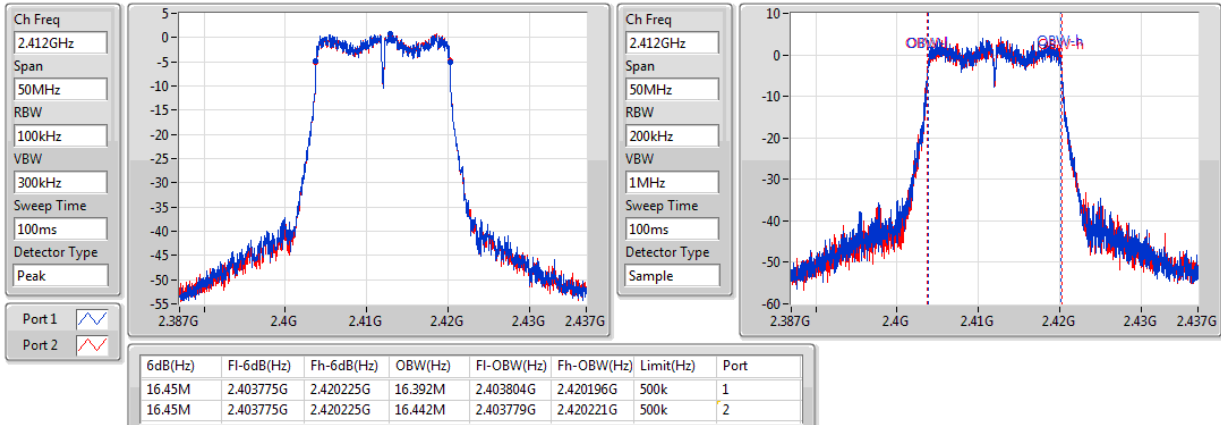
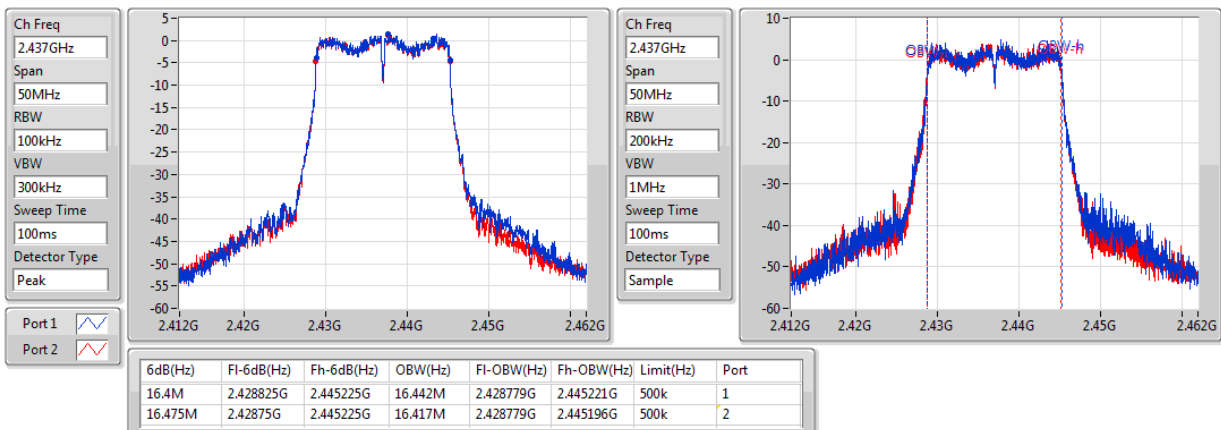
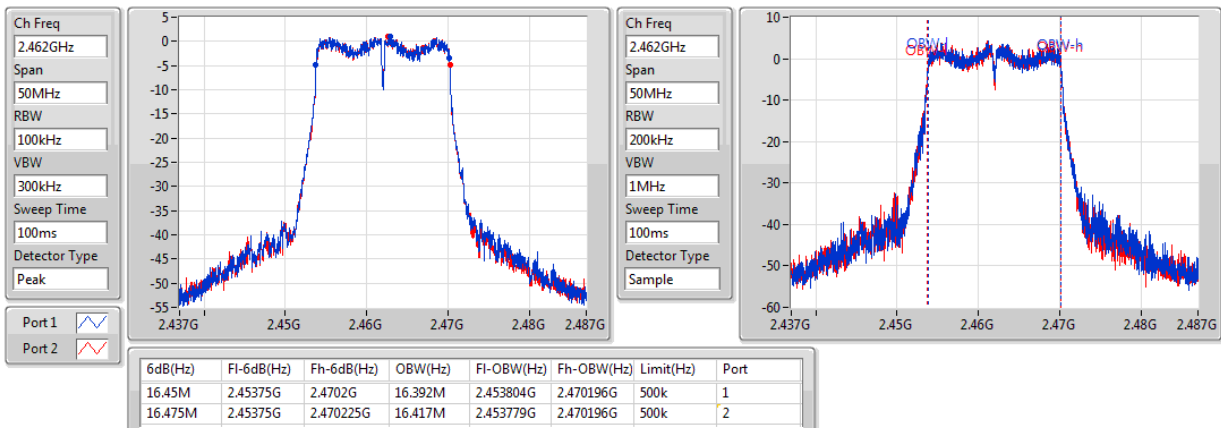
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

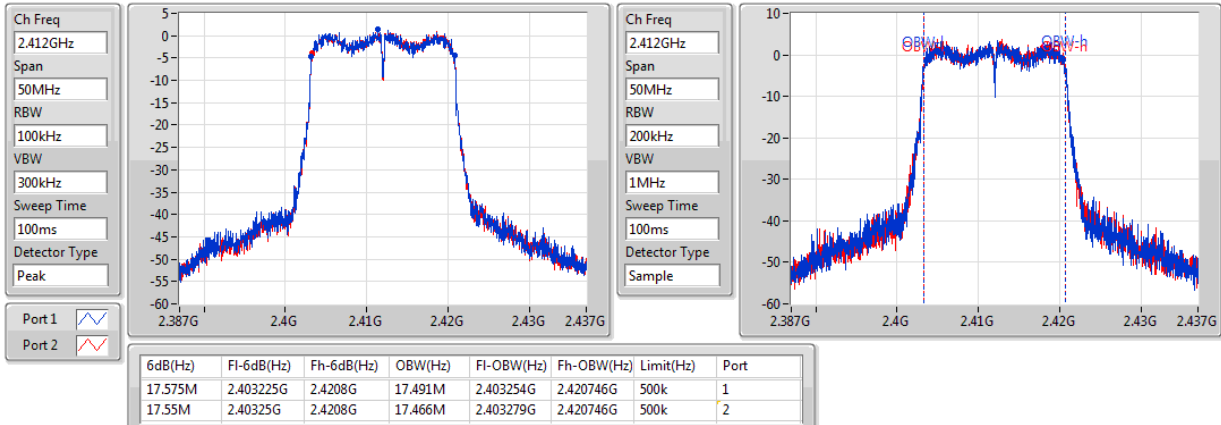
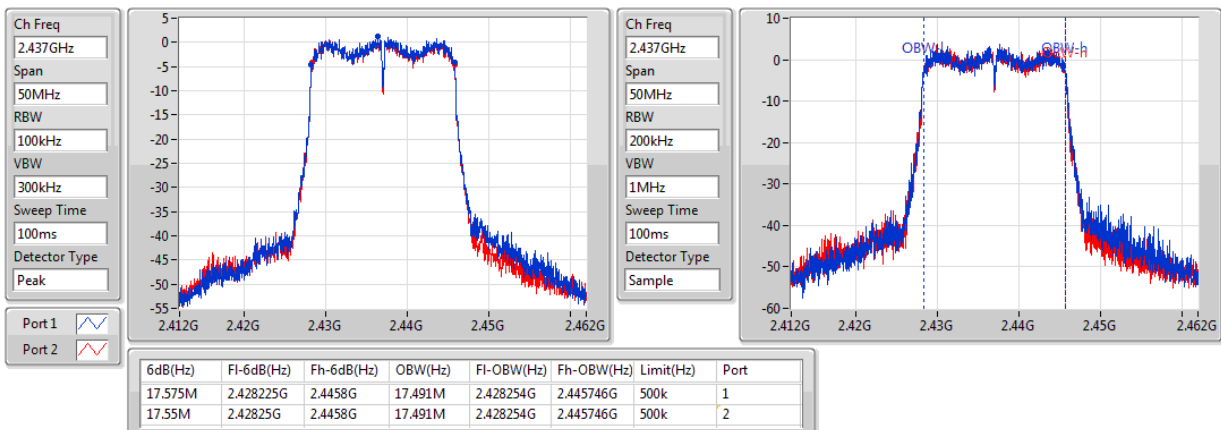
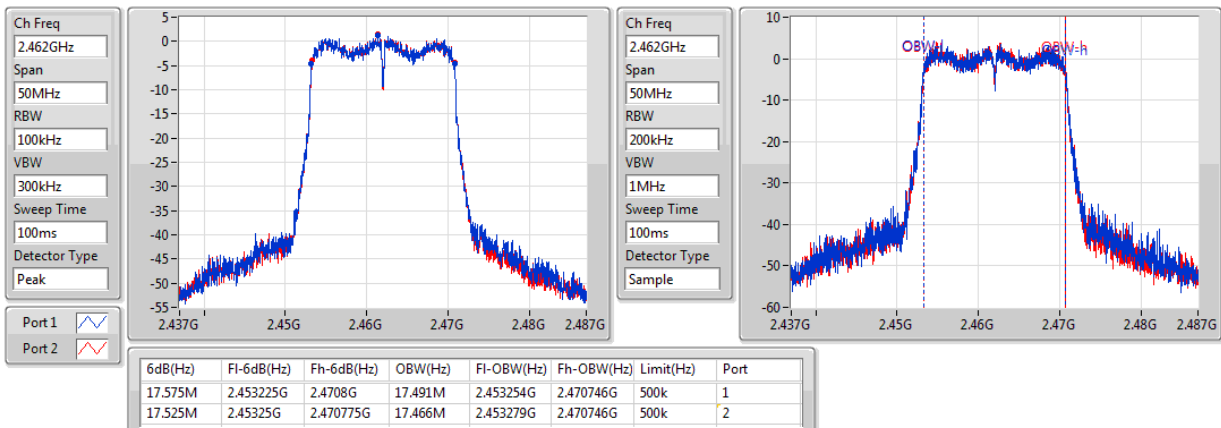
Result

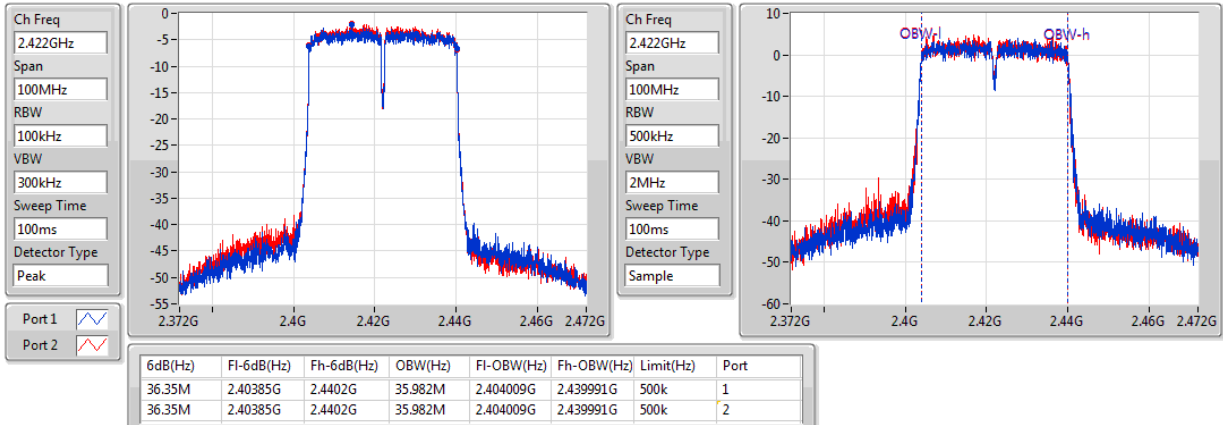
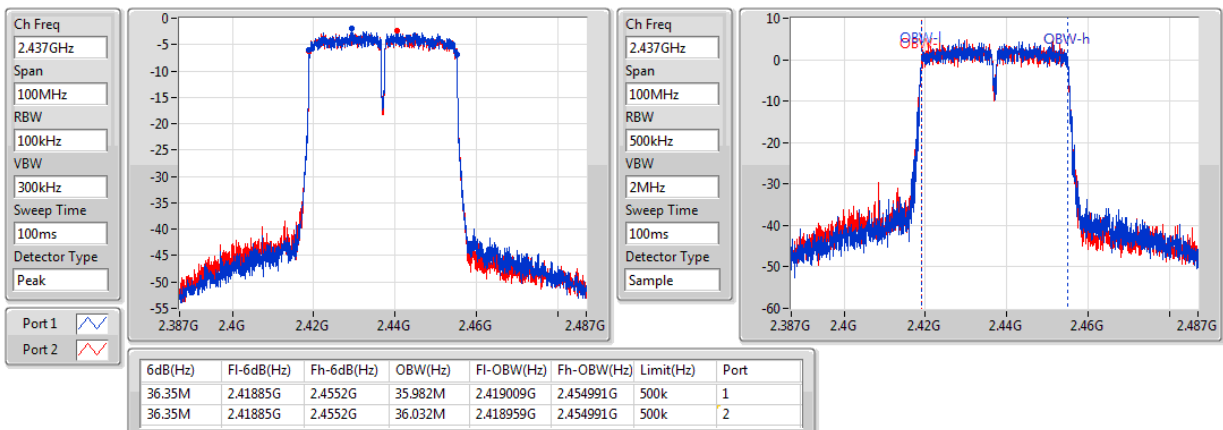
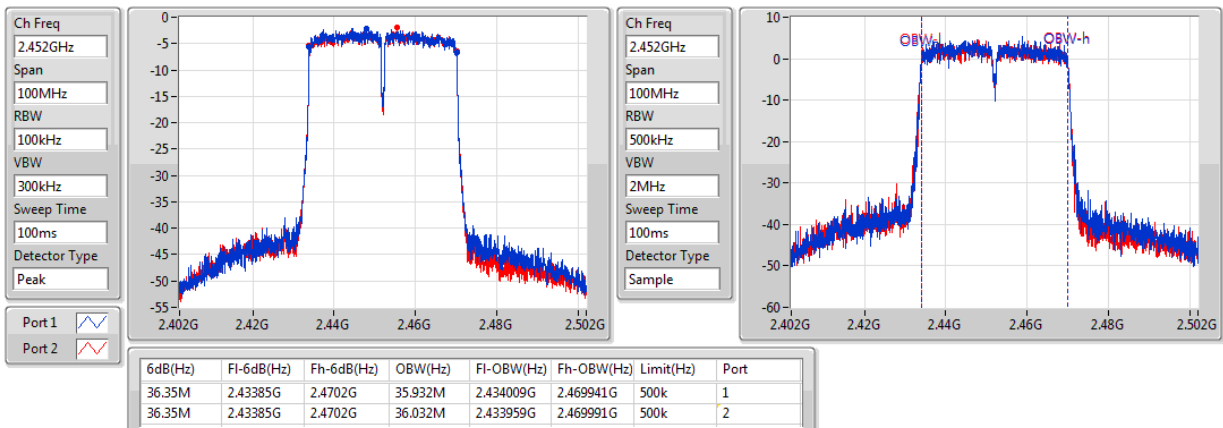
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.05M	14.718M		
2437MHz	Pass	500k	10.05M	14.668M		
2462MHz	Pass	500k	10.05M	14.718M		
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.45M	16.392M	16.45M	16.442M
2437MHz	Pass	500k	16.4M	16.442M	16.475M	16.417M
2462MHz	Pass	500k	16.45M	16.392M	16.475M	16.417M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.491M	17.55M	17.466M
2437MHz	Pass	500k	17.575M	17.491M	17.55M	17.491M
2462MHz	Pass	500k	17.575M	17.491M	17.525M	17.466M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.35M	35.982M	36.35M	35.982M
2437MHz	Pass	500k	36.35M	35.982M	36.35M	36.032M
2452MHz	Pass	500k	36.35M	35.932M	36.35M	36.032M

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

802.11b_(1Mbps)_1TX
EBW
2412MHz

802.11b_(1Mbps)_1TX
EBW
2437MHz

802.11b_(1Mbps)_1TX
EBW
2462MHz


802.11g_(6Mbps)_2TX
EBW
2412MHz

802.11g_(6Mbps)_2TX
EBW
2437MHz

802.11g_(6Mbps)_2TX
EBW
2462MHz


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz


**Summary**

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_1TX	-	-
2.4-2.4835GHz	20.95	0.12445
802.11g_(6Mbps)_2TX	-	-
2.4-2.4835GHz	23.94	0.24774
802.11n HT20_Nss1,(MCS0)_2TX	-	-
2.4-2.4835GHz	23.91	0.24604
802.11n HT40_Nss1,(MCS0)_2TX	-	-
2.4-2.4835GHz	23.95	0.24831

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	5.90	20.95		20.95	30.00
2437MHz	Pass	5.90	20.78		20.78	30.00
2462MHz	Pass	5.90	20.76		20.76	30.00
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.50	20.73	20.93	23.84	29.50
2437MHz	Pass	6.50	20.96	20.90	23.94	29.50
2462MHz	Pass	6.50	20.90	20.78	23.85	29.50
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.50	20.96	20.83	23.91	29.50
2437MHz	Pass	6.50	20.69	20.63	23.67	29.50
2462MHz	Pass	6.50	20.71	20.63	23.68	29.50
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.50	20.57	20.99	23.80	29.50
2437MHz	Pass	6.50	20.92	20.83	23.89	29.50
2452MHz	Pass	6.50	20.98	20.90	23.95	29.50

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

Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_1TX	-
2.4-2.4835GHz	-13.35
802.11g_(6Mbps)_2TX	-
2.4-2.4835GHz	-10.14
802.11n HT20_Nss1,(MCS0)_2TX	-
2.4-2.4835GHz	-9.43
802.11n HT40_Nss1,(MCS0)_2TX	-
2.4-2.4835GHz	-10.86

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	5.90	-13.35		-13.35	8.00
2437MHz	Pass	5.90	-13.64		-13.64	8.00
2462MHz	Pass	5.90	-13.57		-13.57	8.00
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	9.22	-13.48	-13.44	-10.45	4.78
2437MHz	Pass	9.22	-13.13	-13.18	-10.14	4.78
2462MHz	Pass	9.22	-13.25	-13.23	-10.23	4.78
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	9.22	-12.21	-12.66	-9.48	4.78
2437MHz	Pass	9.22	-12.85	-12.35	-9.69	4.78
2462MHz	Pass	9.22	-12.50	-12.38	-9.43	4.78
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	9.22	-15.28	-13.42	-12.17	4.78
2437MHz	Pass	9.22	-13.63	-15.65	-12.68	4.78
2452MHz	Pass	9.22	-13.42	-14.25	-10.86	4.78

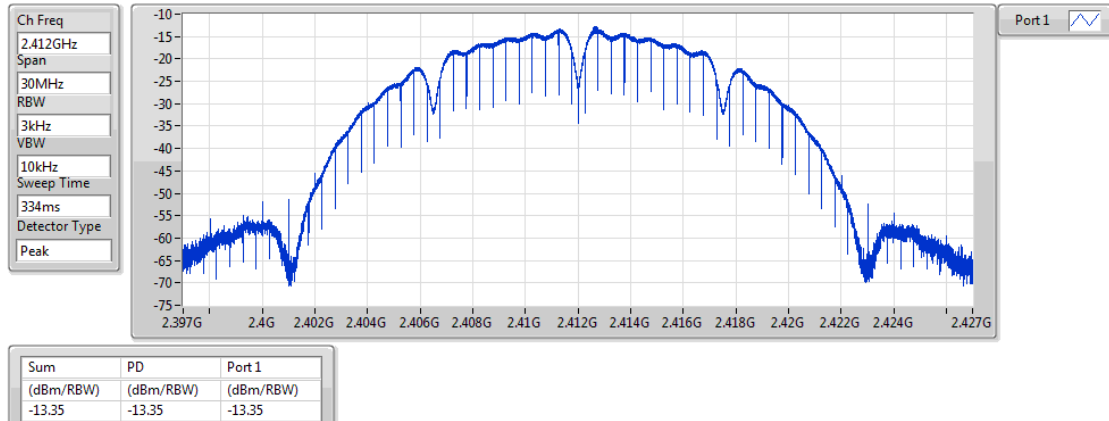
DG = Directional Gain; RBW=3kHz;

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)_1TX

PSD

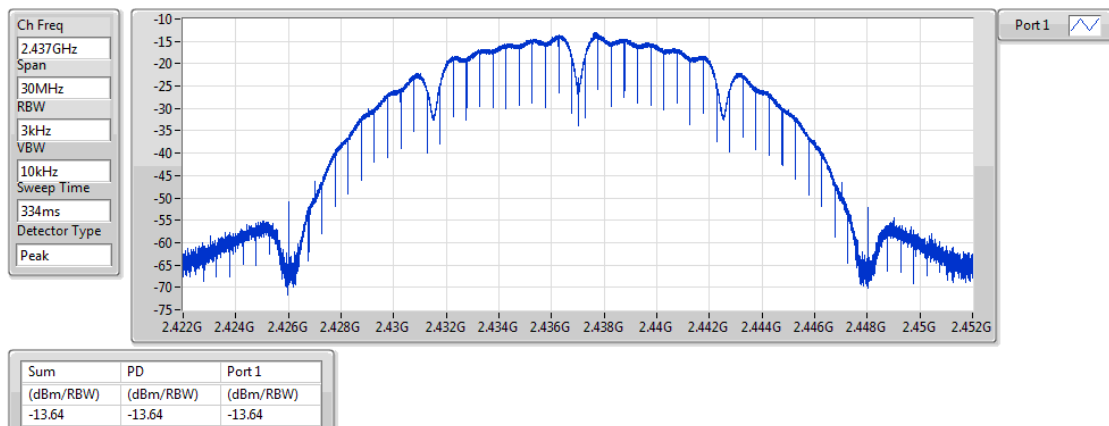
2412MHz



802.11b_(1Mbps)_1TX

PSD

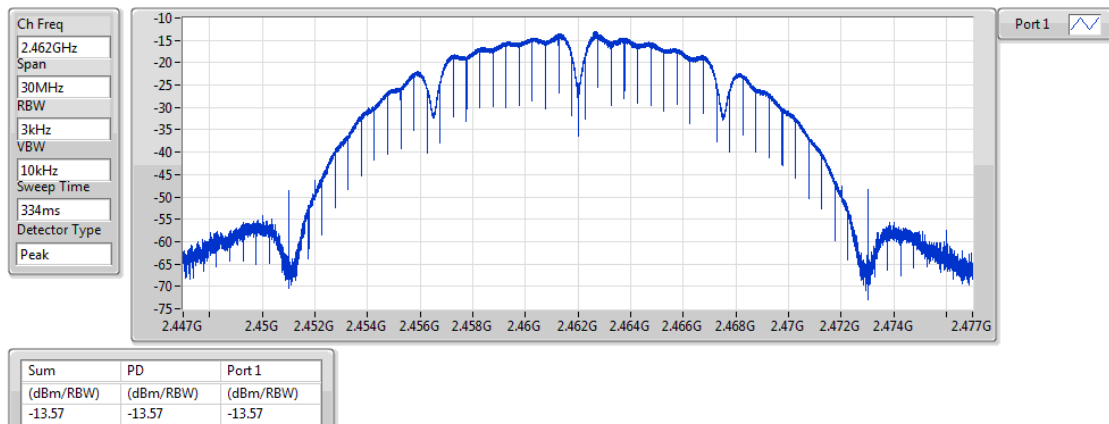
2437MHz



802.11b_(1Mbps)_1TX

PSD

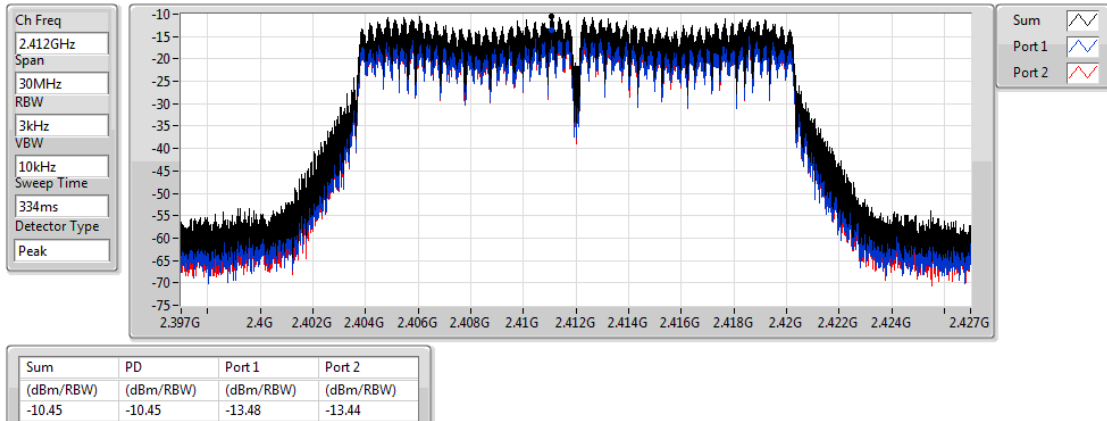
2462MHz



802.11g_(6Mbps)_2TX

PSD

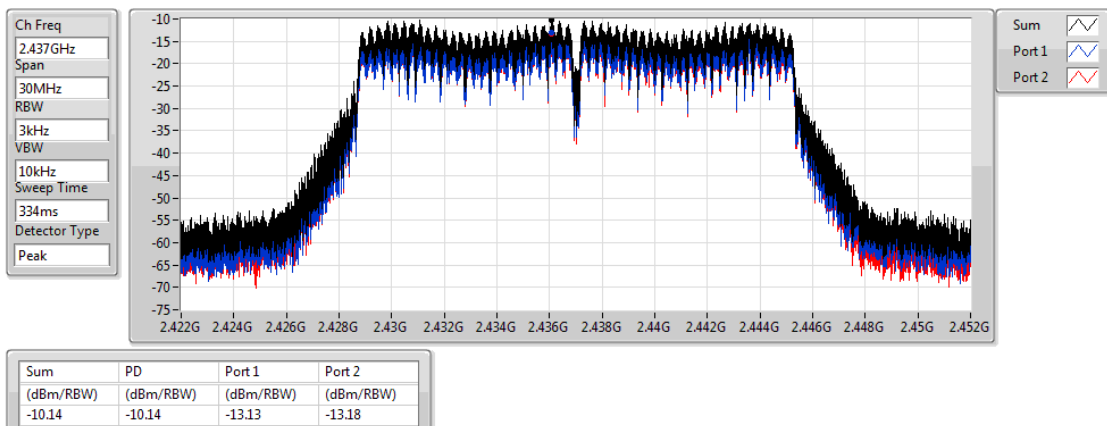
2412MHz



802.11g_(6Mbps)_2TX

PSD

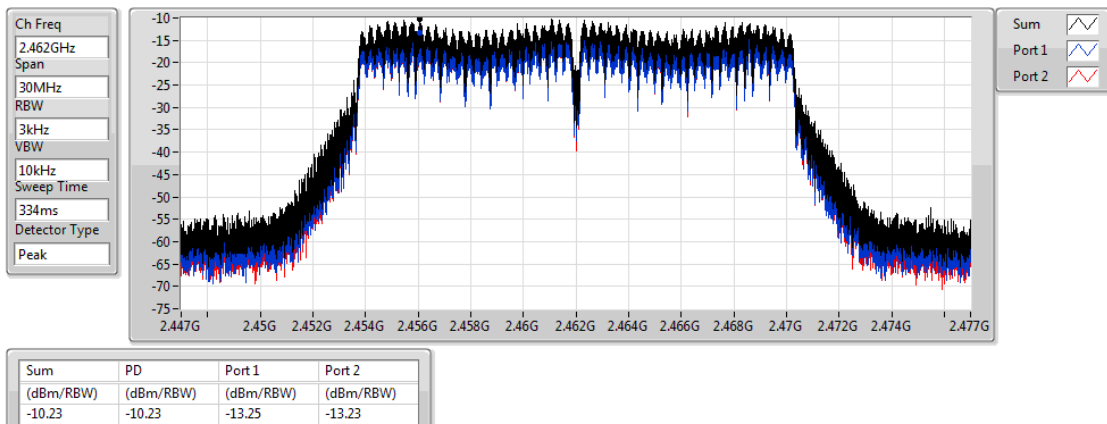
2437MHz



802.11g_(6Mbps)_2TX

PSD

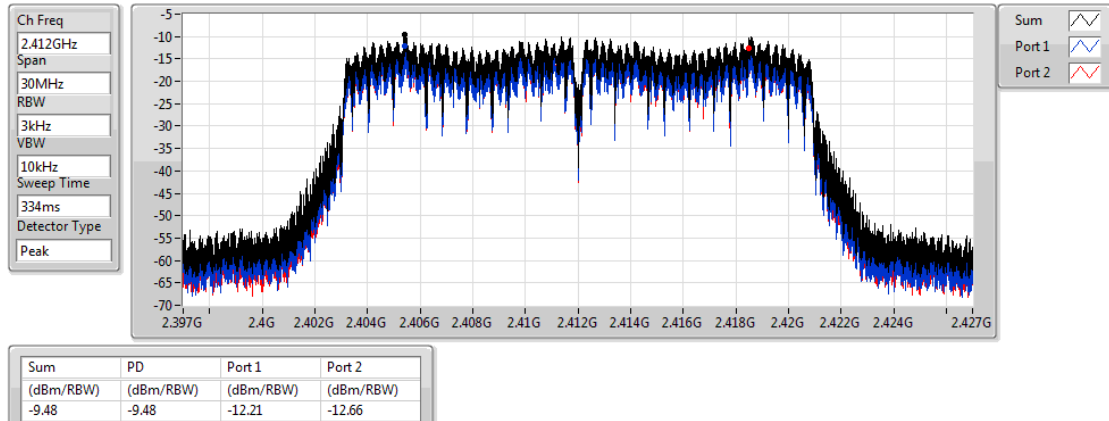
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

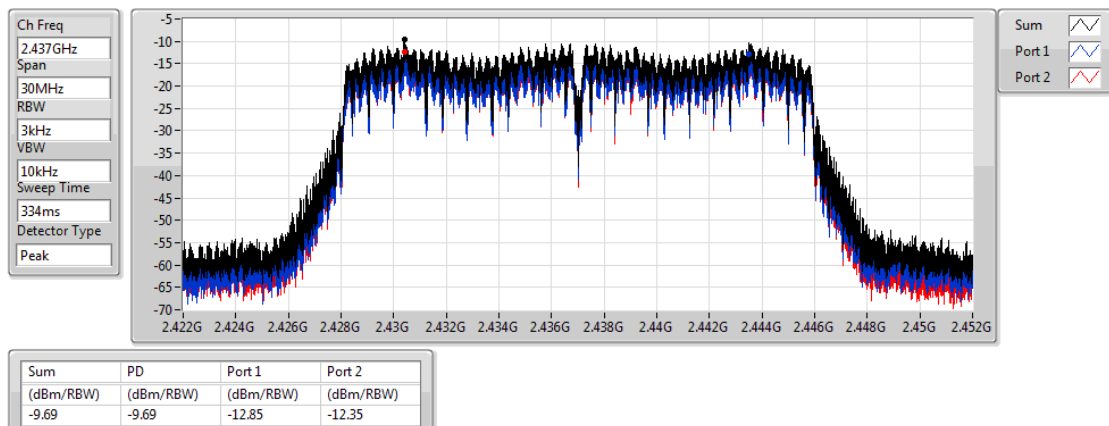
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

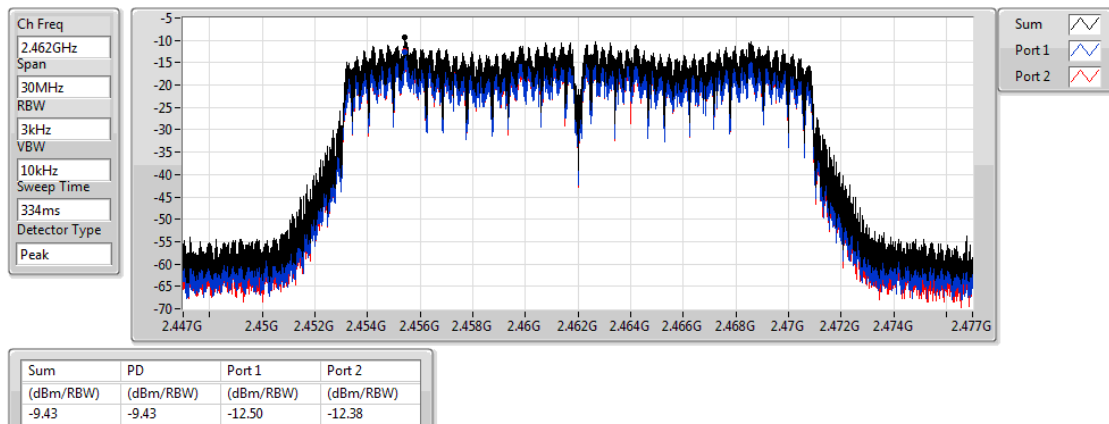
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

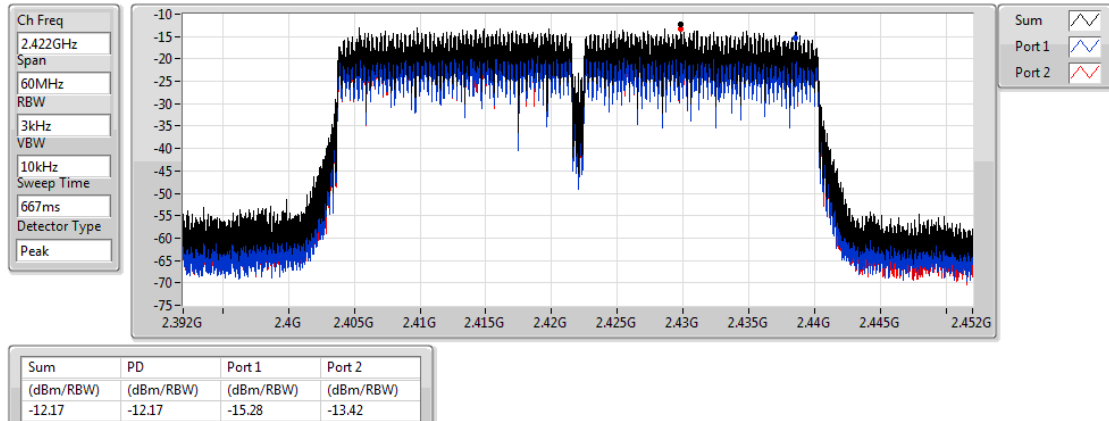
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

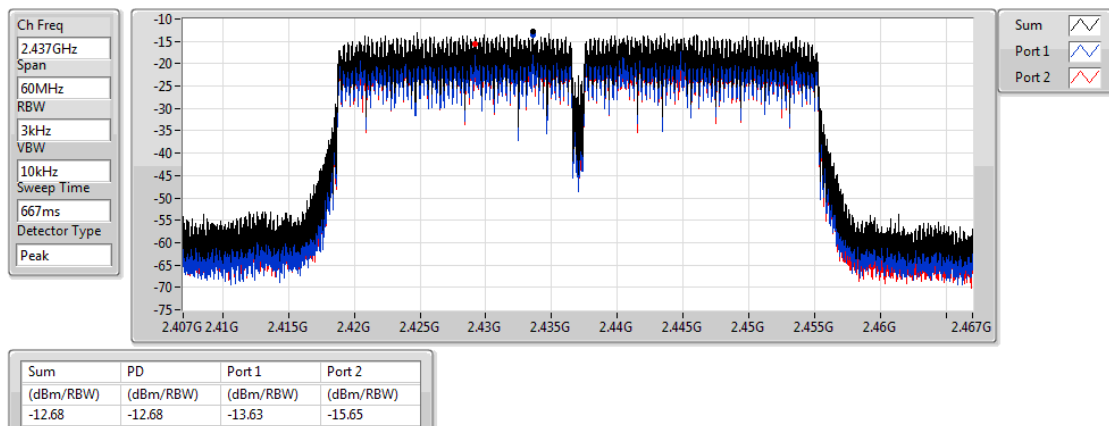
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

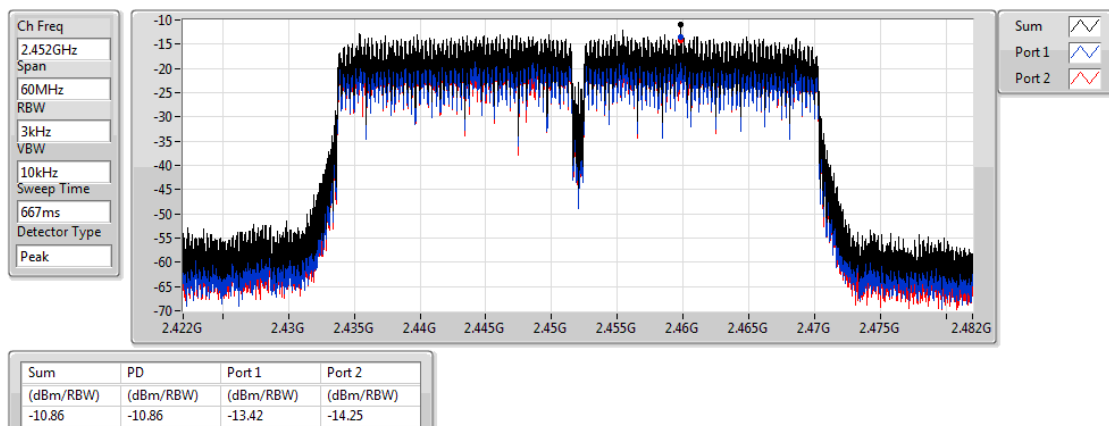
2437MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz





CSE Non-restricted Band Result

Appendix E

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11n HT40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.432231G	-2.99	-32.99	862.415M	-58.62	2.39248G	-40.85	2.50318G	-54.59	6.832044G	-51.90	2

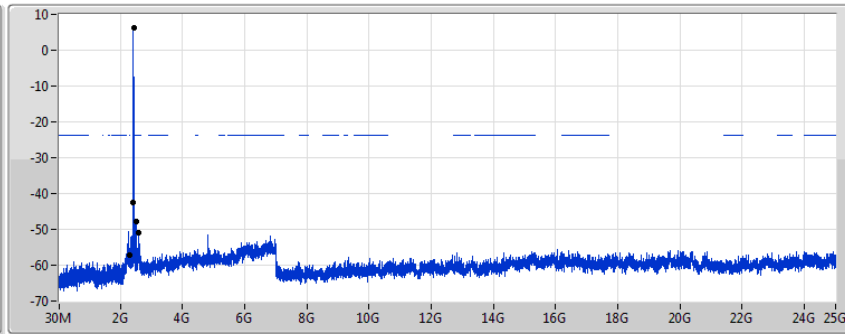
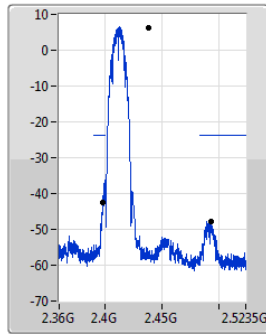
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438076G	6.31	-23.69	2.302915G	-57.28	2.398G	-42.41	2.4935G	-47.70	2.571263G	-51.06	1
2437MHz	Pass	2.438076G	6.31	-23.69	2.300585G	-56.65	2.3948G	-51.74	2.51806G	-47.29	6.881131G	-52.46	1
2462MHz	Pass	2.438076G	6.31	-23.69	2.300585G	-53.68	2.39616G	-56.11	2.49998G	-51.43	2.540357G	-49.38	1
802.11g_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.437909G	0.69	-29.31	2.30408G	-56.80	2.39776G	-40.73	2.49198G	-53.15	6.878322G	-52.11	1
2412MHz	Pass	2.437909G	0.69	-29.31	2.16894G	-57.86	2.39792G	-41.47	2.49134G	-52.17	6.855845G	-52.44	2
2437MHz	Pass	2.437909G	0.69	-29.31	2.132825G	-57.87	2.39272G	-53.09	2.51702G	-52.44	6.996324G	-51.17	1
2437MHz	Pass	2.437909G	0.69	-29.31	2.309905G	-57.59	2.39672G	-54.54	2.51742G	-52.98	2.599358G	-52.23	2
2462MHz	Pass	2.437909G	0.69	-29.31	2.302915G	-54.58	2.39584G	-56.69	2.48526G	-51.47	6.830559G	-51.99	1
2462MHz	Pass	2.437909G	0.69	-29.31	2.30874G	-54.26	2.39504G	-56.17	2.48502G	-50.71	6.580508G	-52.40	2
802.11n HT20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.436406G	0.77	-29.23	2.132825G	-57.17	2.3964G	-39.42	2.49206G	-53.14	6.979466G	-51.64	1
2412MHz	Pass	2.436406G	0.77	-29.23	2.30408G	-57.18	2.3964G	-41.54	2.48414G	-52.59	2.565643G	-52.05	2
2437MHz	Pass	2.436406G	0.77	-29.23	2.307575G	-57.42	2.39056G	-52.24	2.51702G	-51.46	6.881131G	-52.74	1
2437MHz	Pass	2.436406G	0.77	-29.23	2.309905G	-55.96	2.39328G	-54.36	2.5163G	-51.50	6.976657G	-52.28	2
2462MHz	Pass	2.436406G	0.77	-29.23	2.302915G	-53.35	2.39048G	-56.32	2.48446G	-50.01	6.987895G	-51.90	1
2462MHz	Pass	2.436406G	0.77	-29.23	2.307575G	-54.59	2.39528G	-56.44	2.48494G	-51.51	6.861465G	-52.29	2
802.11n HT40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.432231G	-2.99	-32.99	2.19176G	-58.40	2.3928G	-44.80	2.5019G	-54.37	6.918986G	-52.72	1
2422MHz	Pass	2.432231G	-2.99	-32.99	862.415M	-58.62	2.39248G	-40.85	2.50318G	-54.59	6.832044G	-51.90	2
2437MHz	Pass	2.432231G	-2.99	-32.99	2.13222G	-57.28	2.39616G	-47.75	2.48366G	-51.07	6.750712G	-52.85	1
2437MHz	Pass	2.432231G	-2.99	-32.99	2.12993G	-58.12	2.39424G	-45.92	2.48366G	-50.50	6.924595G	-51.95	2
2452MHz	Pass	2.432231G	-2.99	-32.99	2.13222G	-57.44	2.39248G	-54.26	2.4859G	-44.02	6.646943G	-51.94	1
2452MHz	Pass	2.432231G	-2.99	-32.99	1.819635G	-58.07	2.39648G	-54.69	2.48574G	-47.08	6.820826G	-51.96	2

802.11b_(1Mbps)_1TX

CSE NdB

2412MHz

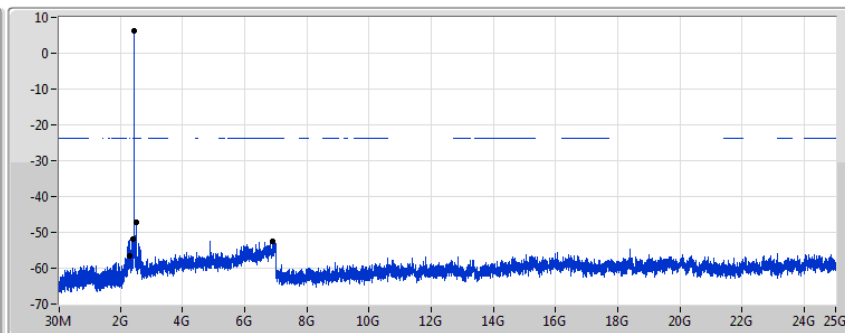
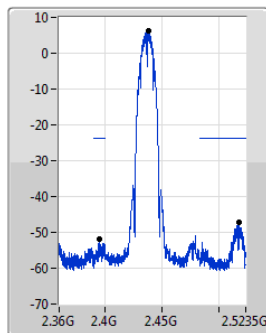


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438076G	6.31	-23.69	2.302915G	-57.28	2.398G	-42.41	2.4935G	-47.70	2.571263G	-51.06	1

802.11b_(1Mbps)_1TX

CSE NdB

2437MHz

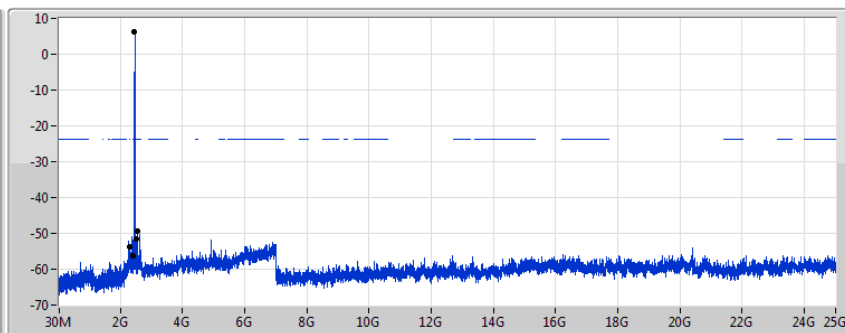
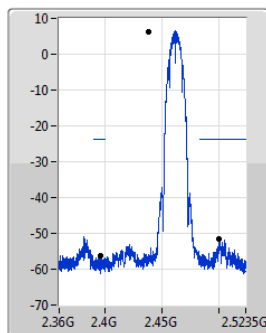


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438076G	6.31	-23.69	2.300585G	-56.65	2.3948G	-51.74	2.51806G	-47.29	6.881131G	-52.46	1

802.11b_(1Mbps)_1TX

CSE NdB

2462MHz

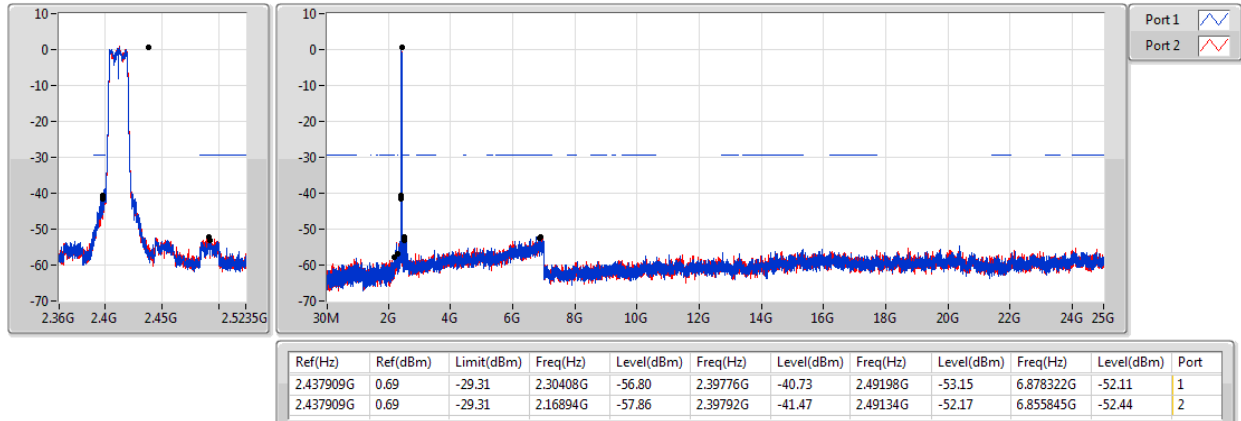


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438076G	6.31	-23.69	2.300585G	-53.68	2.39616G	-56.11	2.49998G	-51.43	2.540357G	-49.38	1

802.11g_(6Mbps)_2TX

CSE NdB

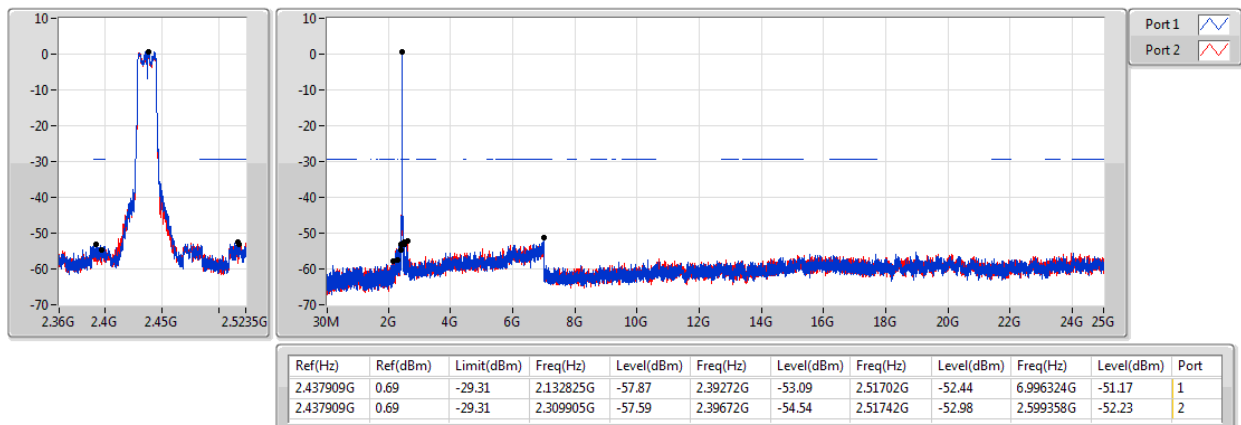
2412MHz



802.11g_(6Mbps)_2TX

CSE NdB

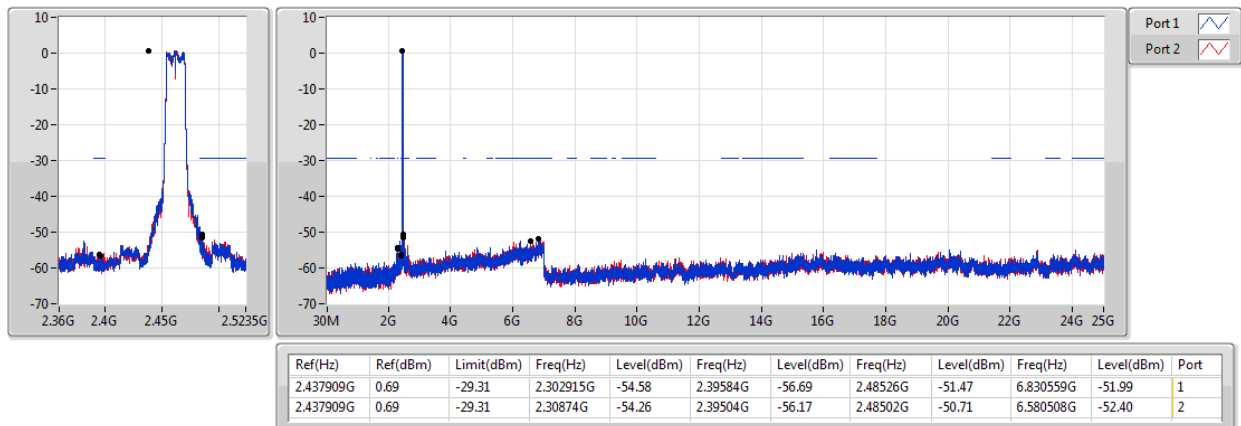
2437MHz



802.11g_(6Mbps)_2TX

CSE NdB

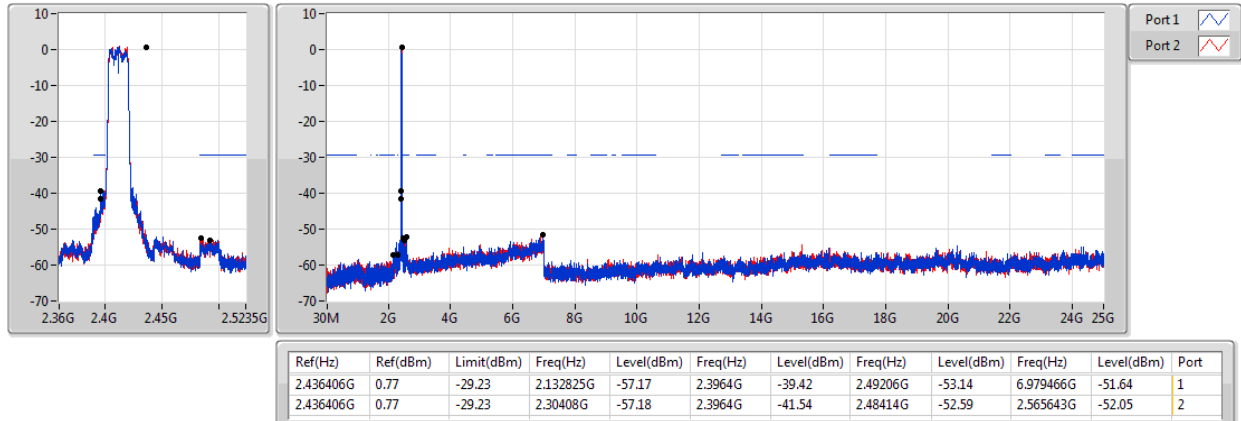
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

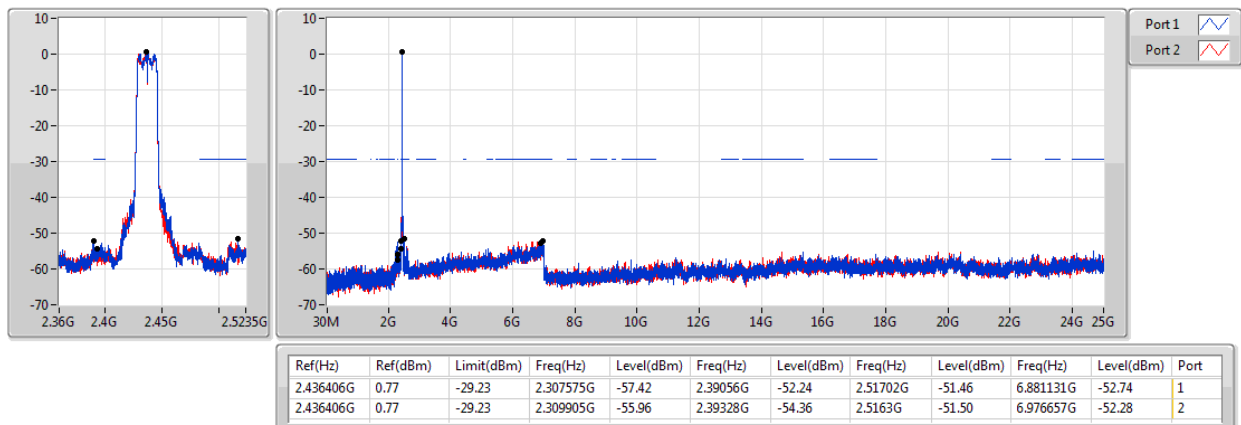
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

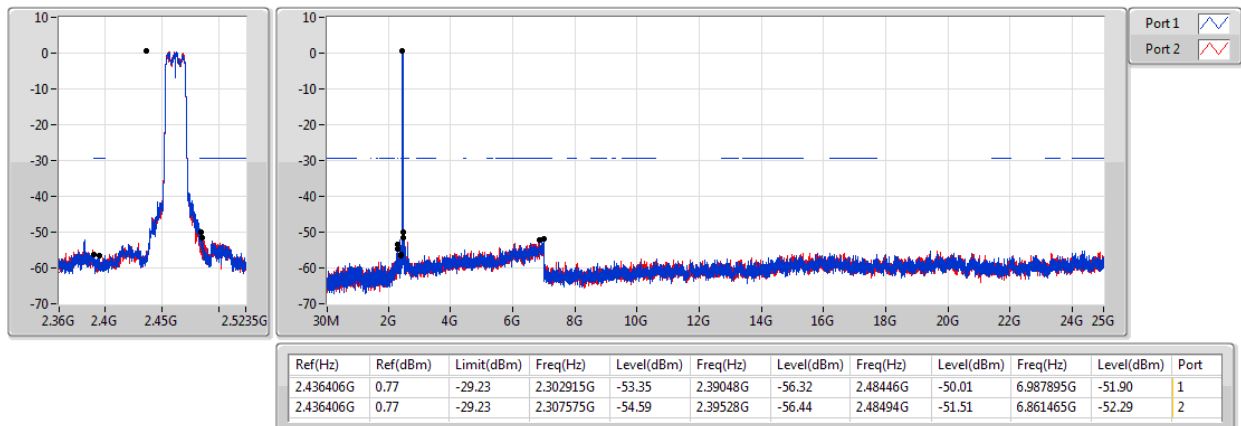
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

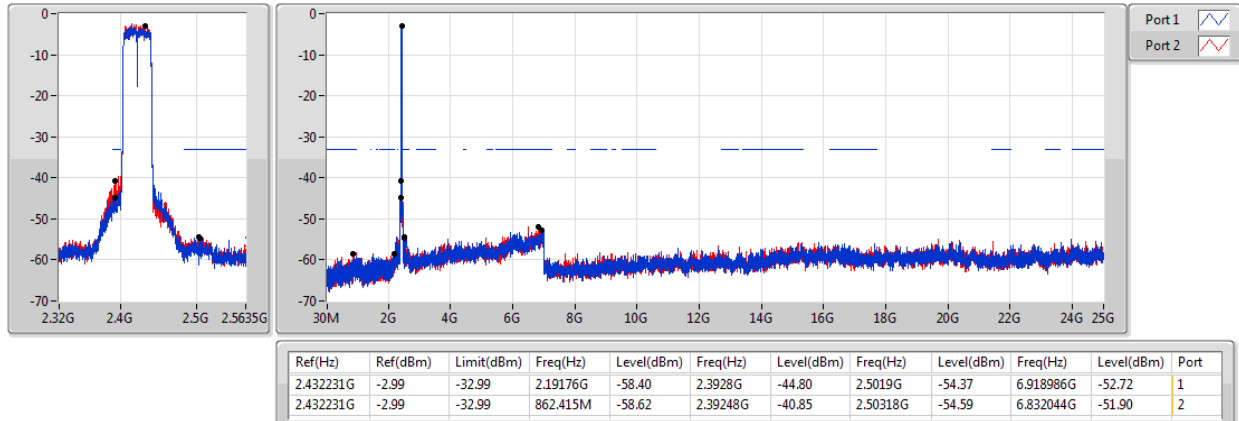
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

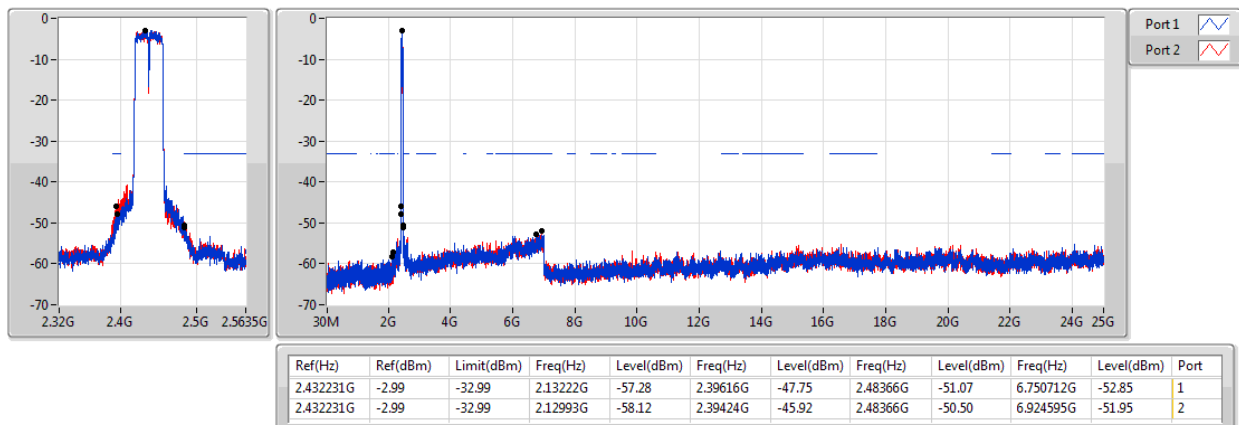
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

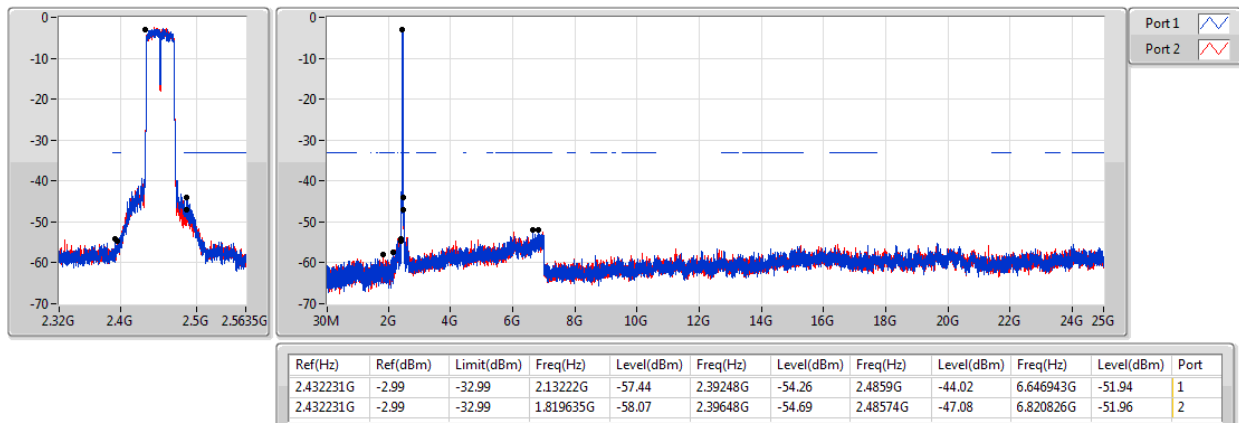
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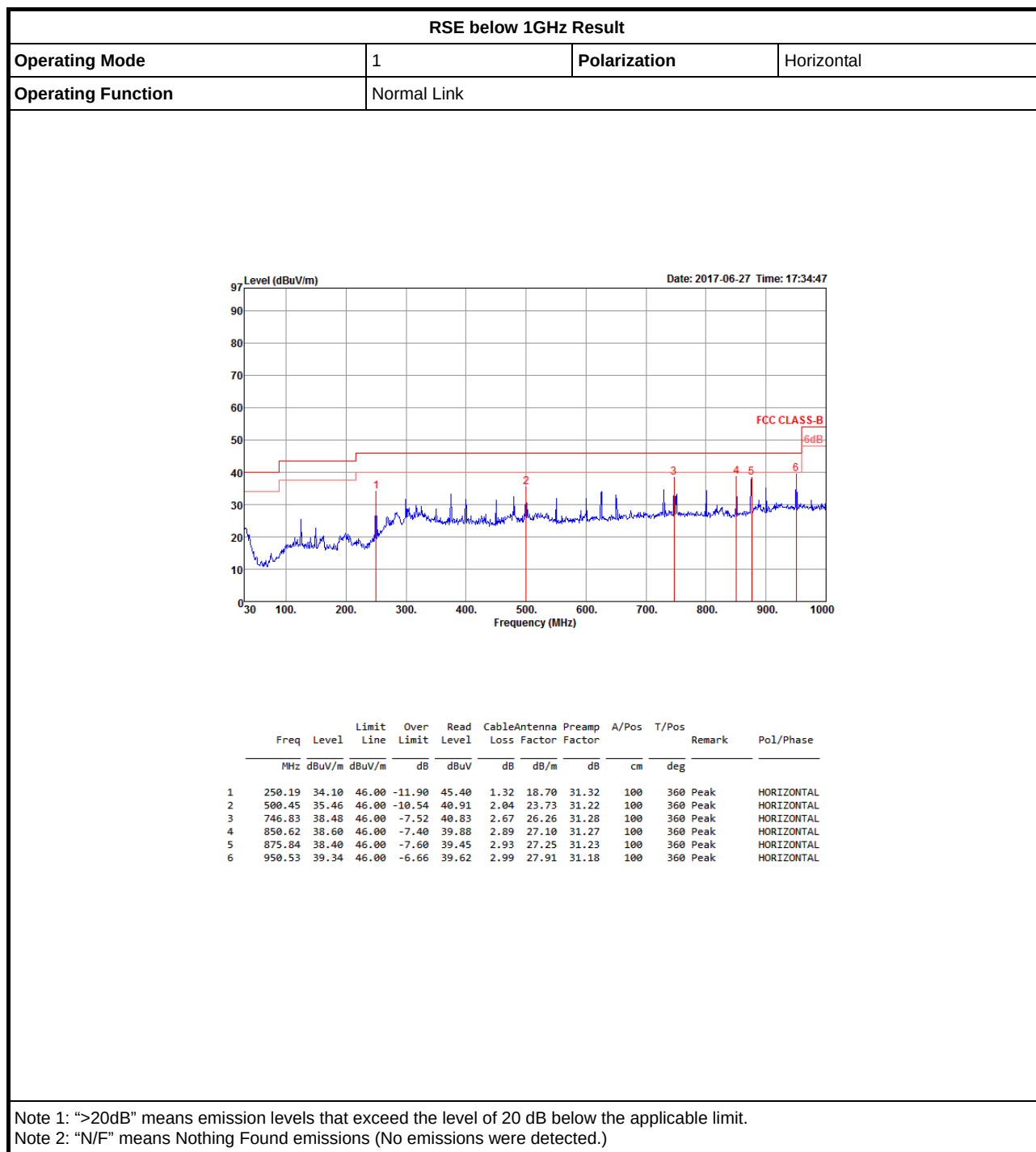


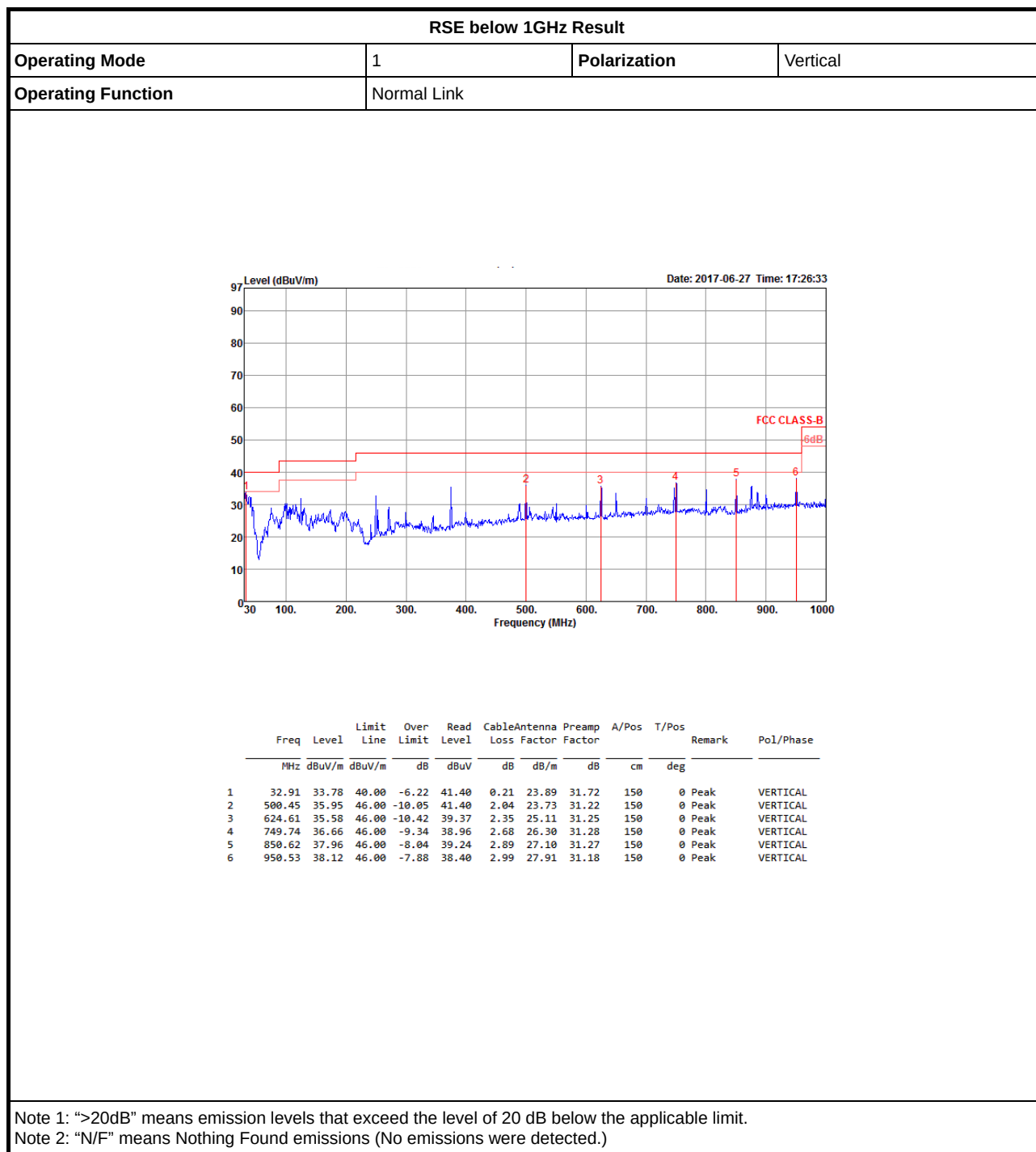
802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz





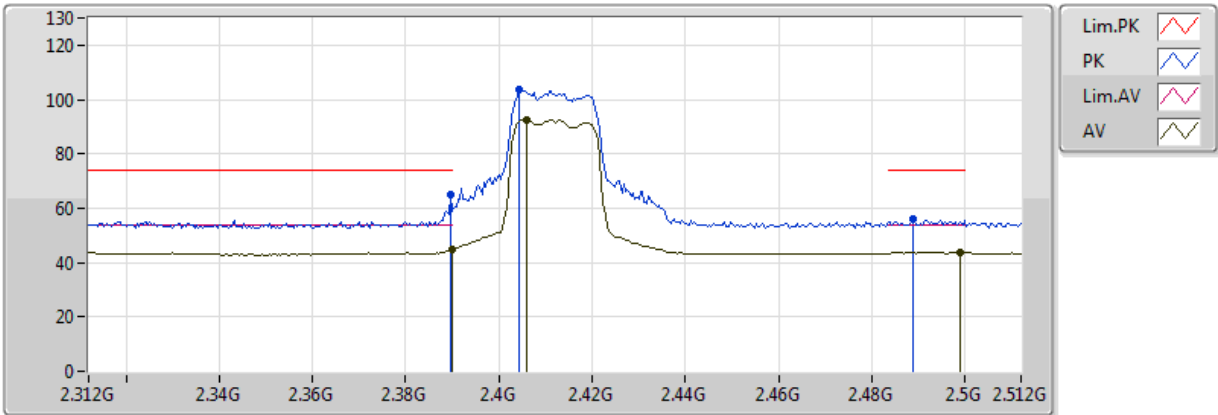


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.3888G	53.56	54.00	-0.44	31.04	3	H	303	1.00	-

802.11b_(1Mbps)_1TX

2412MHz_TX

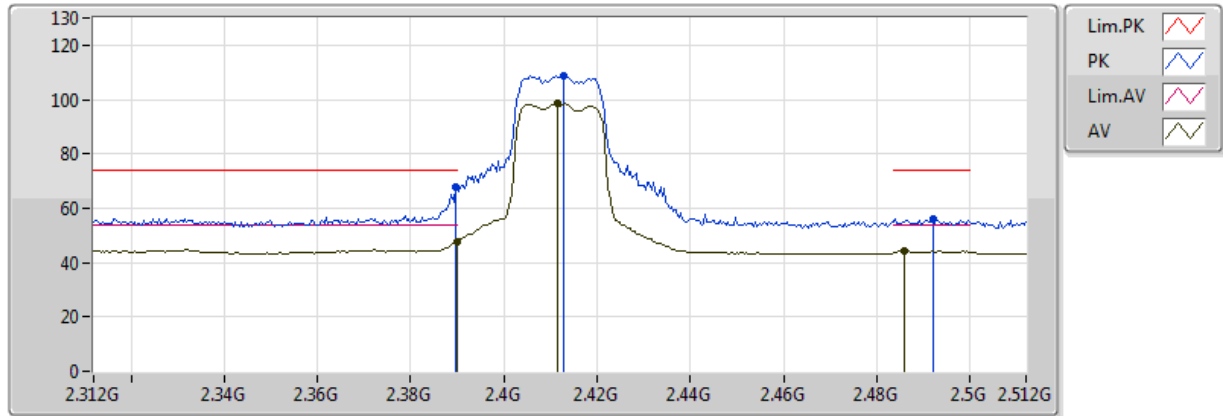


20170623
EUT X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	44.72	54.00	-9.28	31.04	3	V	44	1.00	-
AV	2.406G	92.67	Inf	-Inf	31.01	3	V	44	1.00	-
AV	2.4988G	43.85	54.00	-10.15	30.90	3	V	44	1.00	-
PK	2.3896G	65.05	74.00	-8.95	31.04	3	V	44	1.00	-
PK	2.4044G	103.57	Inf	-Inf	31.01	3	V	44	1.00	-
PK	2.4888G	55.88	74.00	-18.12	30.91	3	V	44	1.00	-

802.11b_(1Mbps)_1TX

2412MHz_TX



20170623
EUT_X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	47.77	54.00	-6.23	31.04	3	H	350	1.28	-
AV	2.4116G	98.58	Inf	-Inf	31.01	3	H	350	1.28	-
AV	2.486G	44.18	54.00	-9.82	30.92	3	H	350	1.28	-
PK	2.3896G	67.71	74.00	-6.29	31.04	3	H	350	1.28	-
PK	2.4128G	108.72	Inf	-Inf	31.00	3	H	350	1.28	-
PK	2.492G	55.98	74.00	-18.02	30.91	3	H	350	1.28	-

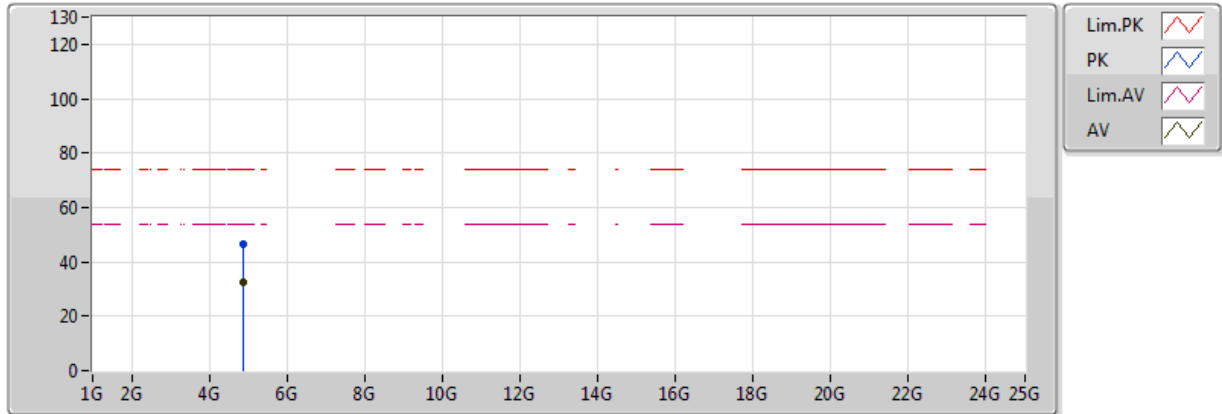
802.11b_(1Mbps)_1TX

2412MHz_TX



802.11b_(1Mbps)_1TX

2412MHz_TX

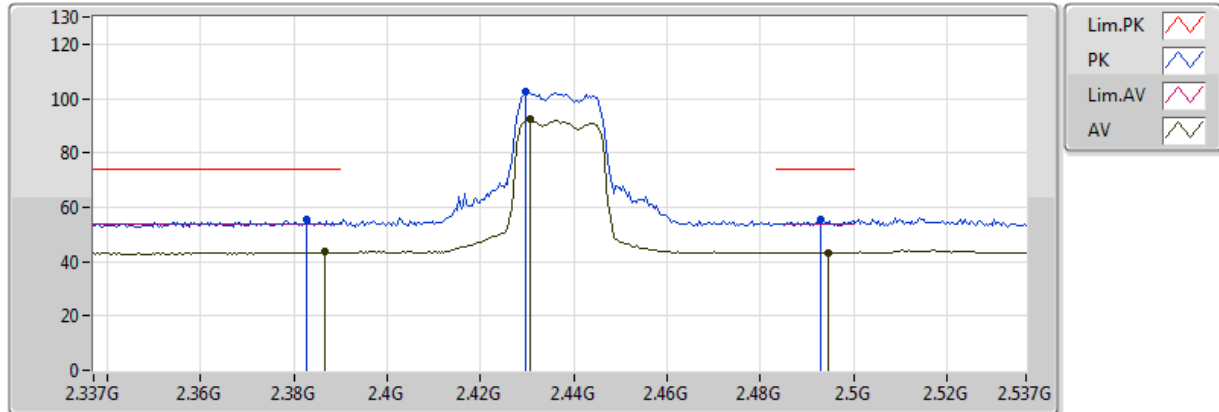


20170623
EUT X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8622G	32.68	54.00	-21.32	3.52	3	H	45	2.47	-
PK	4.869G	46.25	74.00	-27.75	3.54	3	H	45	2.47	-

802.11b_(1Mbps)_1TX

2437MHz_TX

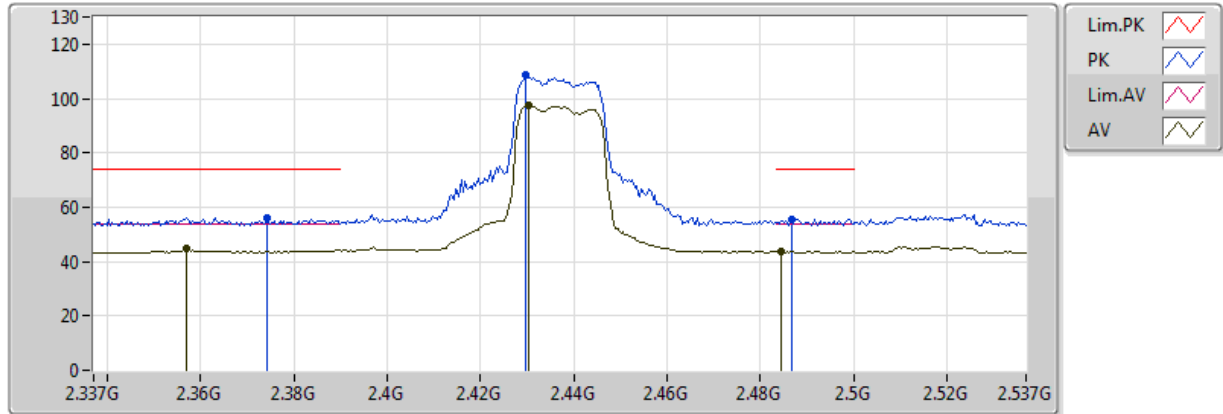


20170623
EUT X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3866G	43.47	54.00	-10.53	31.04	3	V	41	1.31	-
AV	2.4306G	92.23	Inf	-Inf	30.98	3	V	41	1.31	-
AV	2.4946G	43.37	54.00	-10.63	30.91	3	V	41	1.31	-
PK	2.3826G	55.62	74.00	-18.38	31.05	3	V	41	1.31	-
PK	2.4298G	102.70	Inf	-Inf	30.98	3	V	41	1.31	-
PK	2.493G	55.28	74.00	-18.72	30.91	3	V	41	1.31	-

802.11b_(1Mbps)_1TX

2437MHz_TX

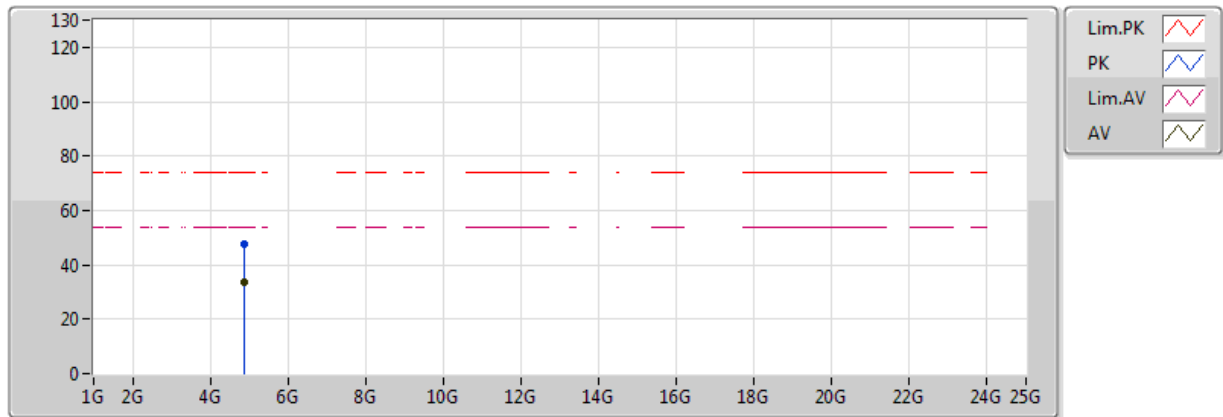


20170623
EUT_X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.357G	44.80	54.00	-9.20	31.08	3	H	9	1.00	-
AV	2.4302G	97.38	Inf	-Inf	30.98	3	H	9	1.00	-
AV	2.4846G	43.55	54.00	-10.45	30.92	3	H	9	1.00	-
PK	2.3742G	56.01	74.00	-17.99	31.06	3	H	9	1.00	-
PK	2.4298G	108.43	Inf	-Inf	30.98	3	H	9	1.00	-
PK	2.4866G	55.60	74.00	-18.40	30.92	3	H	9	1.00	-

802.11b_(1Mbps)_1TX

2437MHz_TX

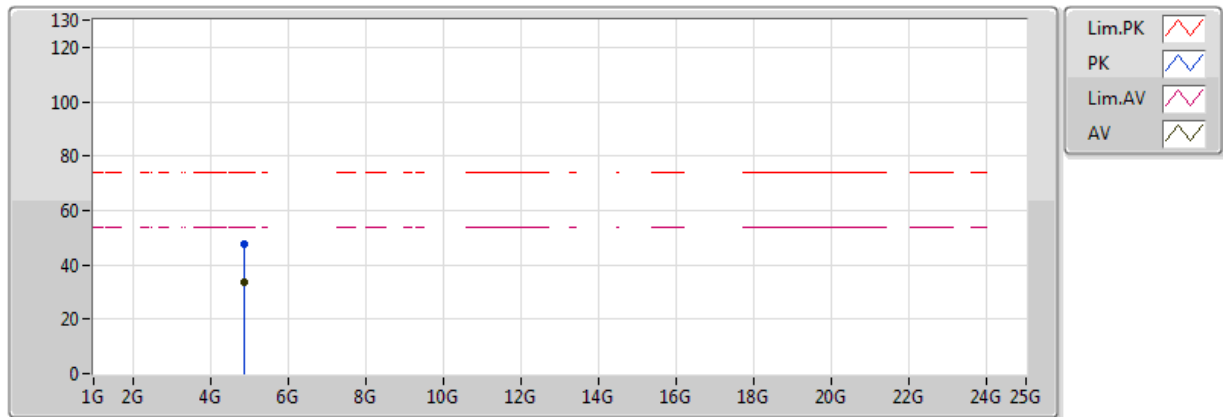


20170623
EUT X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87412G	33.78	54.00	-20.22	3.55	3	V	193	1.02	-
PK	4.87219G	47.36	74.00	-26.64	3.55	3	V	193	1.02	-

802.11b_(1Mbps)_1TX

2437MHz_TX

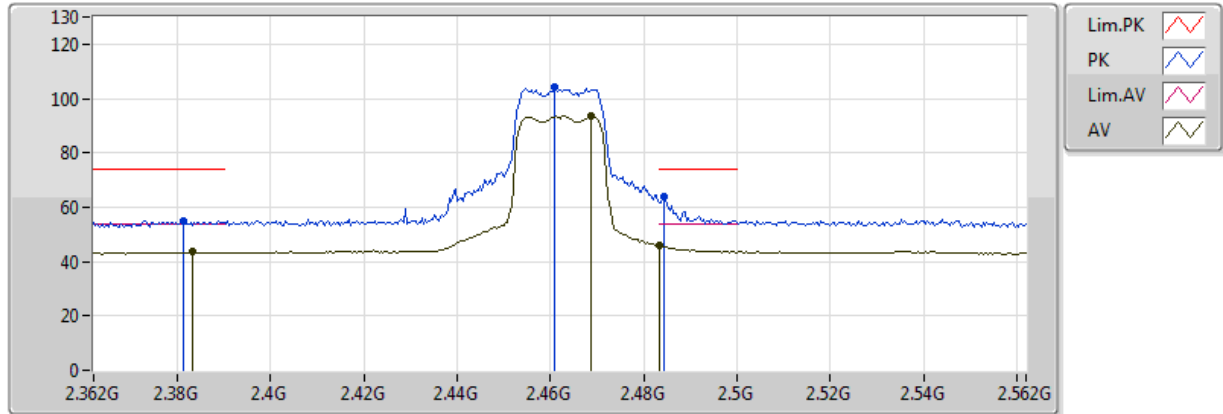


20170623
EUT X_1TX
Setting 45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87432G	33.70	54.00	-20.30	3.55	3	H	94	1.62	-
PK	4.874G	47.54	74.00	-26.46	3.55	3	H	94	1.62	-

802.11b_(1Mbps)_1TX

2462MHz_TX

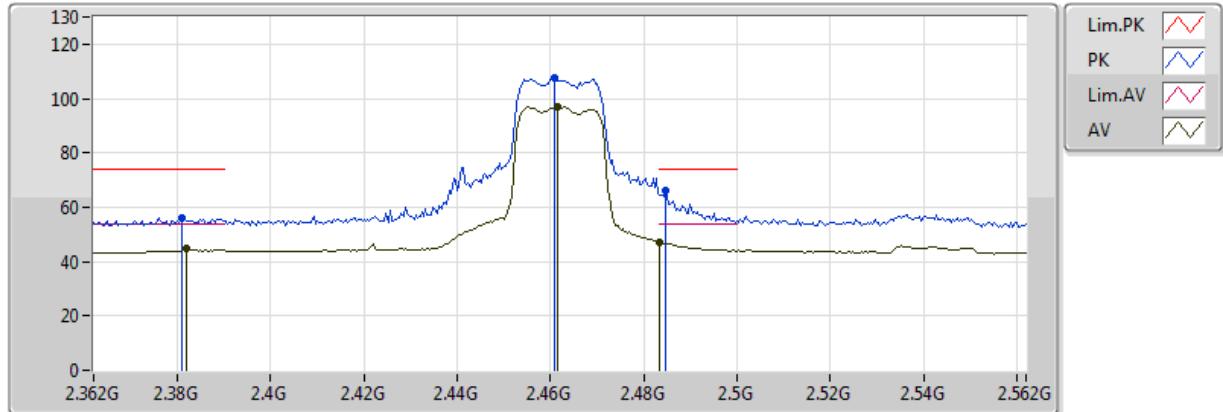


20170623
EUT_X_1TX
Setting 46
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3832G	43.45	54.00	-10.55	31.05	3	V	21	1.09	-
AV	2.4688G	93.56	Inf	-Inf	30.94	3	V	21	1.09	-
AV	2.483502G	45.79	54.00	-8.21	30.92	3	V	21	1.09	-
PK	2.3812G	55.13	74.00	-18.87	31.05	3	V	21	1.09	-
PK	2.4608G	103.96	Inf	-Inf	30.95	3	V	21	1.09	-
PK	2.4844G	63.69	74.00	-10.31	30.92	3	V	21	1.09	-

802.11b_(1Mbps)_1TX

2462MHz_TX

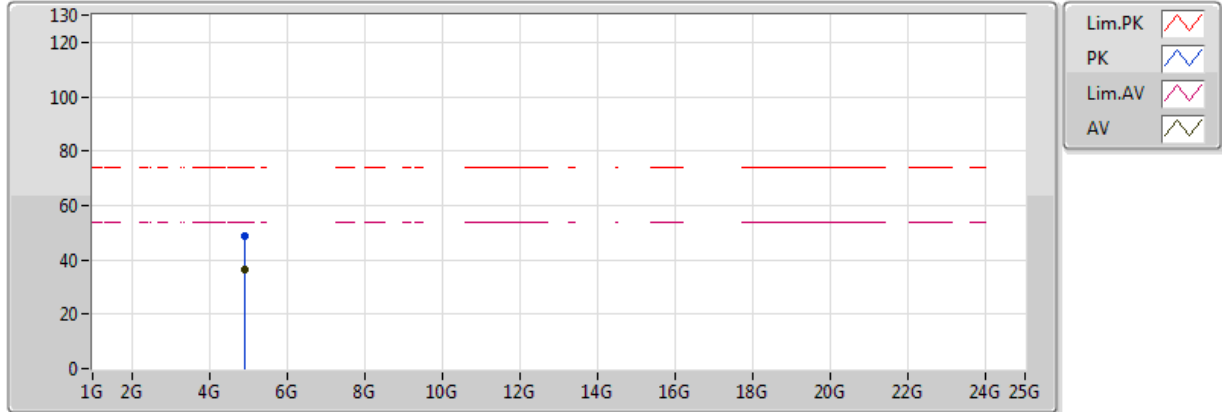


20170623
EUT_X_1TX
Setting 46
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.382G	44.81	54.00	-9.19	31.05	3	H	10	1.18	-
AV	2.4616G	97.10	Inf	-Inf	30.95	3	H	10	1.18	-
AV	2.483502G	47.00	54.00	-7.00	30.92	3	H	10	1.18	-
PK	2.3808G	55.83	74.00	-18.17	31.05	3	H	10	1.18	-
PK	2.4608G	107.41	Inf	-Inf	30.95	3	H	10	1.18	-
PK	2.4848G	66.23	74.00	-7.77	30.92	3	H	10	1.18	-

802.11b_(1Mbps)_1TX

2462MHz_TX

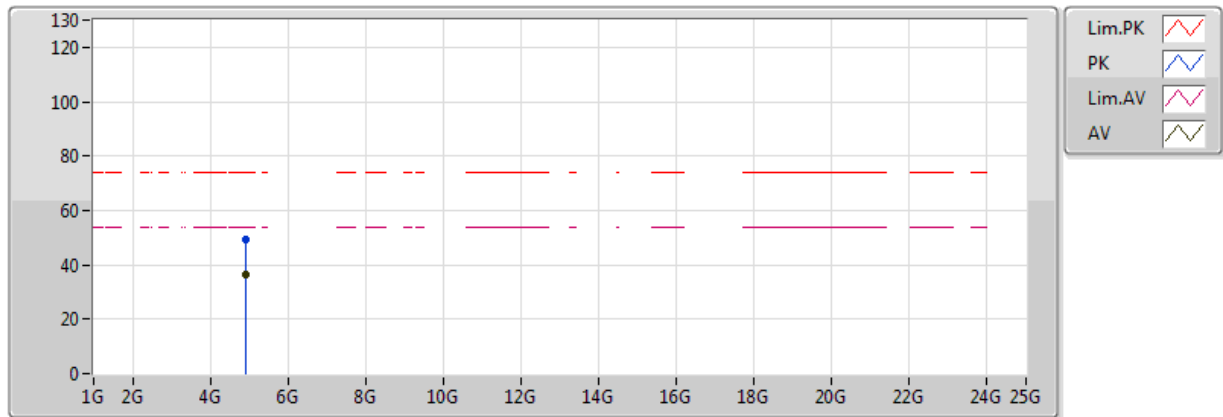


20170623
EUT X_1TX
Setting 46
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92397G	36.56	54.00	-17.44	3.70	3	V	177	1.94	-
PK	4.92397G	48.85	74.00	-25.15	3.70	3	V	177	1.94	-

802.11b_(1Mbps)_1TX

2462MHz_TX

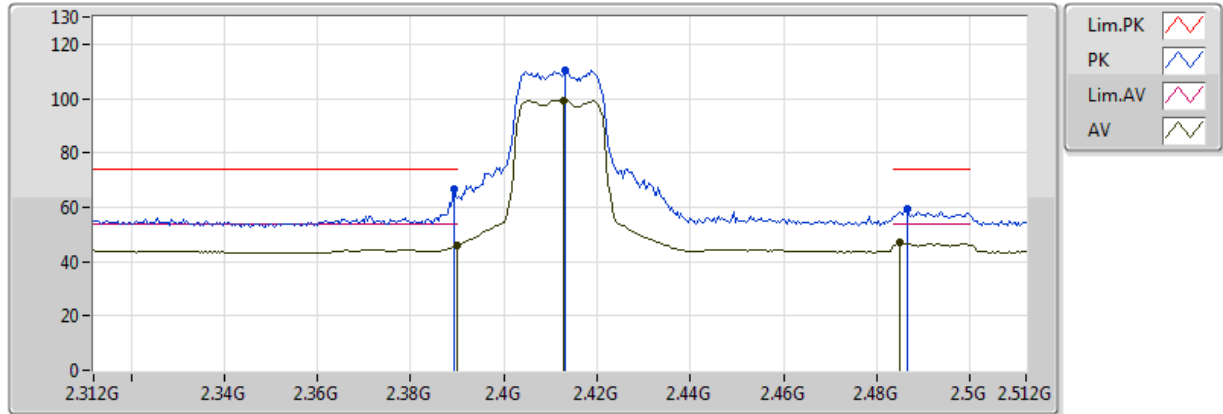


20170623
EUT X_1TX
Setting 46
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92417G	36.56	54.00	-17.44	3.70	3	H	325	2.13	-
PK	4.92408G	49.12	74.00	-24.88	3.70	3	H	325	2.13	-

802.11g_(6Mbps)_2TX

2412MHz_TX

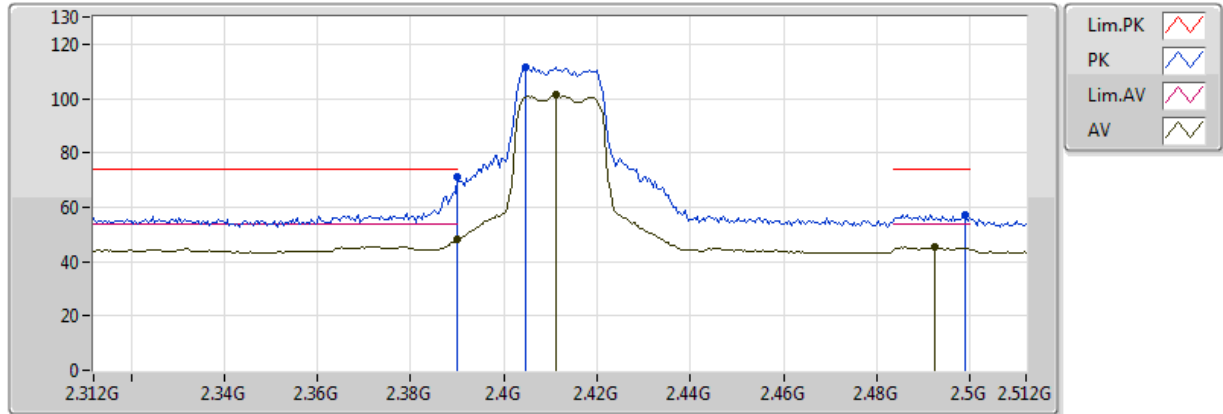


20170623
EUT X_2TX
Setting 46/45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	45.82	54.00	-8.18	31.04	3	V	317	1.14	-
AV	2.4128G	99.41	Inf	-Inf	31.00	3	V	317	1.14	-
AV	2.4848G	46.94	54.00	-7.06	30.92	3	V	317	1.14	-
PK	2.3892G	66.88	74.00	-7.12	31.04	3	V	317	1.14	-
PK	2.4132G	110.41	Inf	-Inf	31.00	3	V	317	1.14	-
PK	2.4864G	59.47	74.00	-14.53	30.92	3	V	317	1.14	-

802.11g_(6Mbps)_2TX

2412MHz_TX

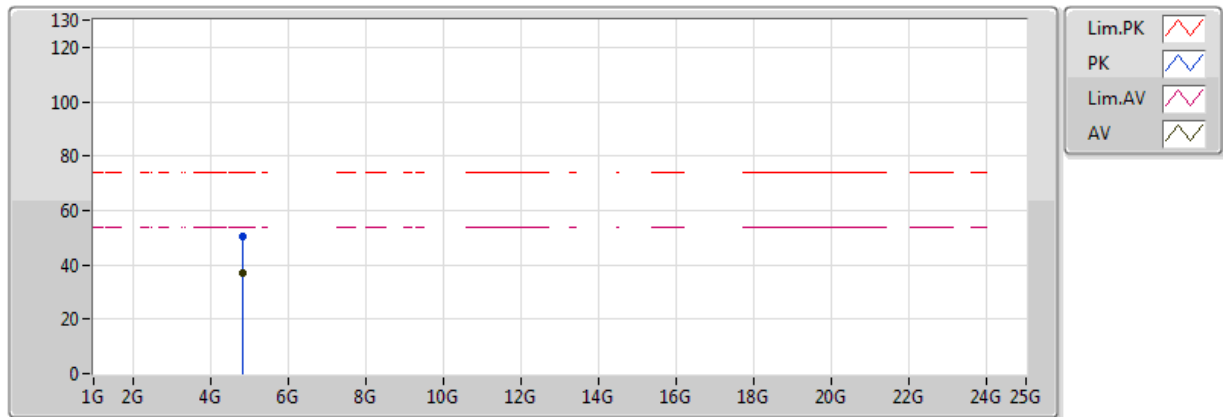


20170623
EUT_X_2TX
Setting 46/45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.26	54.00	-5.74	31.04	3	H	2	1.26	-
AV	2.4112G	101.20	Inf	-Inf	31.01	3	H	2	1.26	-
AV	2.4924G	45.25	54.00	-8.75	30.91	3	H	2	1.26	-
PK	2.389998G	71.30	74.00	-2.70	31.04	3	H	2	1.26	-
PK	2.4048G	111.70	Inf	-Inf	31.01	3	H	2	1.26	-
PK	2.4988G	57.41	74.00	-16.59	30.90	3	H	2	1.26	-

802.11g_(6Mbps)_2TX

2412MHz_TX



20170623
EUT X_2TX
Setting 46/45
01-O-1
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82373G	37.05	54.00	-16.95	3.40	3	V	286	1.00	-
PK	4.82166G	50.32	74.00	-23.68	3.39	3	V	286	1.00	-

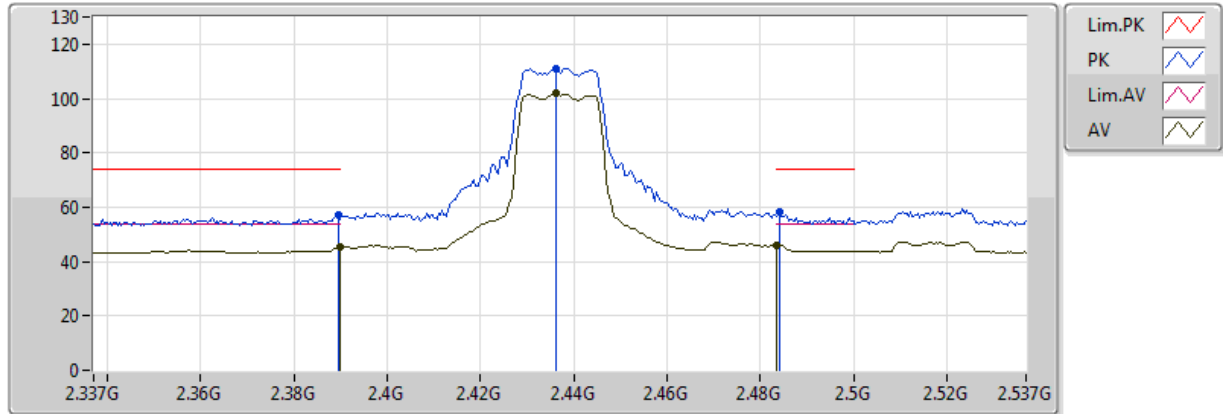
802.11g_(6Mbps)_2TX

2412MHz_TX



802.11g_(6Mbps)_2TX

2437MHz_TX

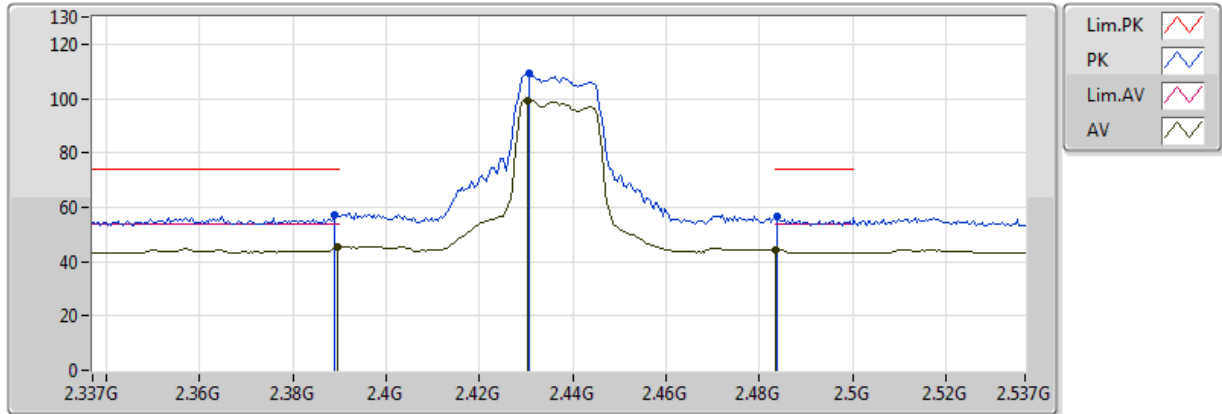


20170623
EUT_X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	45.24	54.00	-8.76	31.04	3	V	16	1.00	-
AV	2.4362G	101.84	Inf	-Inf	30.98	3	V	16	1.00	-
AV	2.483502G	46.12	54.00	-7.88	30.92	3	V	16	1.00	-
PK	2.3894G	57.12	74.00	-16.88	31.04	3	V	16	1.00	-
PK	2.4362G	111.18	Inf	-Inf	30.98	3	V	16	1.00	-
PK	2.4842G	58.37	74.00	-15.63	30.92	3	V	16	1.00	-

802.11g_(6Mbps)_2TX

2437MHz_TX

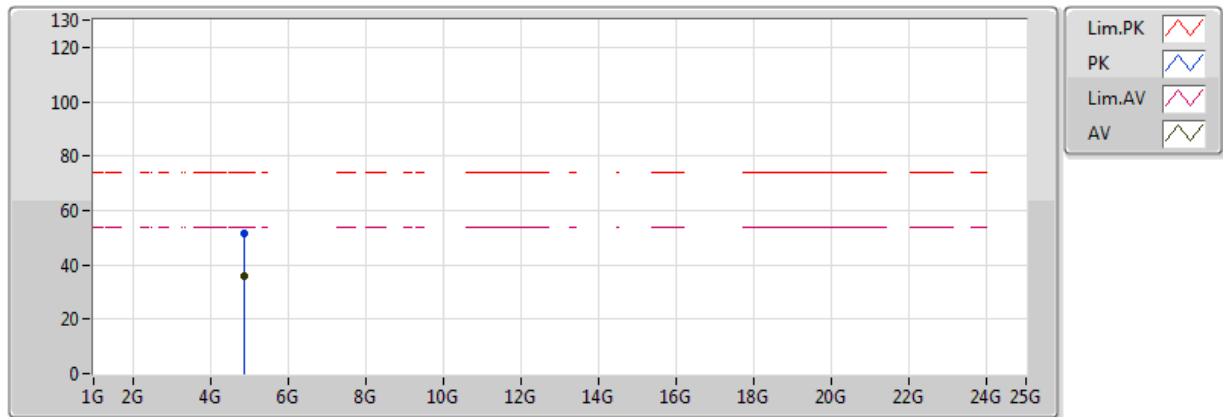


20170623
EUT_X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	45.57	54.00	-8.43	31.04	3	H	306	1.24	-
AV	2.4302G	99.39	Inf	-Inf	30.98	3	H	306	1.24	-
AV	2.483502G	44.51	54.00	-9.49	30.92	3	H	306	1.24	-
PK	2.389G	57.12	74.00	-16.88	31.04	3	H	306	1.24	-
PK	2.4306G	109.16	Inf	-Inf	30.98	3	H	306	1.24	-
PK	2.4838G	56.87	74.00	-17.13	30.92	3	H	306	1.24	-

802.11g_(6Mbps)_2TX

2437MHz_TX

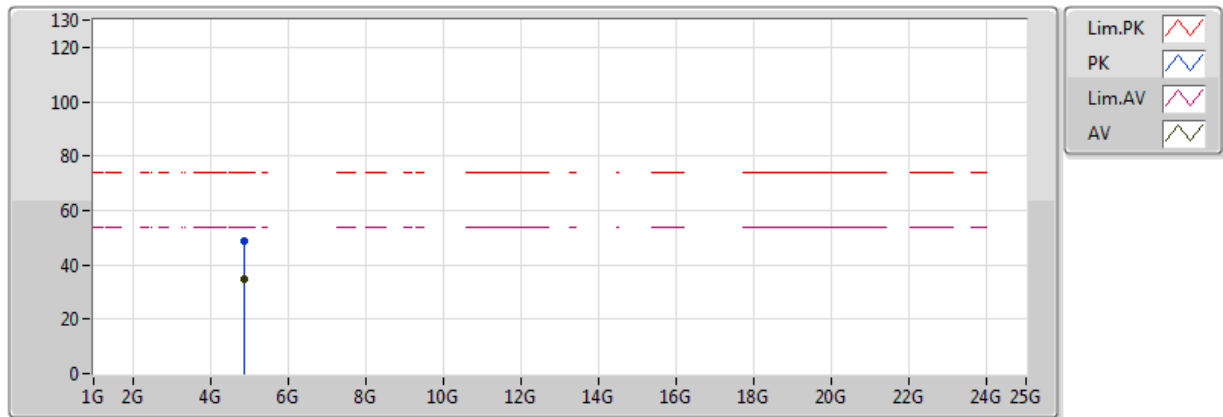


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87416G	36.06	54.00	-17.94	3.55	3	V	17	1.39	-
PK	4.87496G	51.63	74.00	-22.37	3.55	3	V	17	1.39	-

802.11g_(6Mbps)_2TX

2437MHz_TX

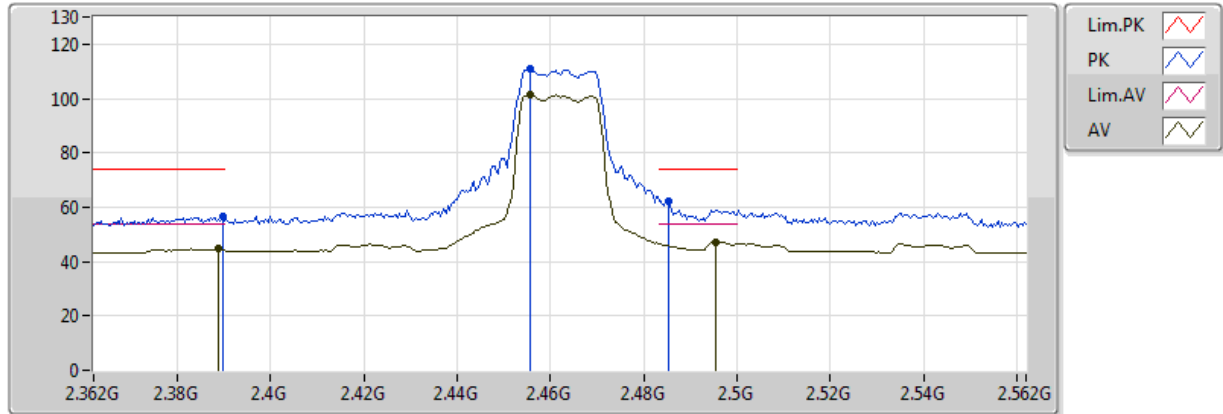


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87396G	34.82	54.00	-19.18	3.55	3	H	110	1.21	-
PK	4.87606G	48.74	74.00	-25.26	3.56	3	H	110	1.21	-

802.11g_(6Mbps)_2TX

2462MHz_TX

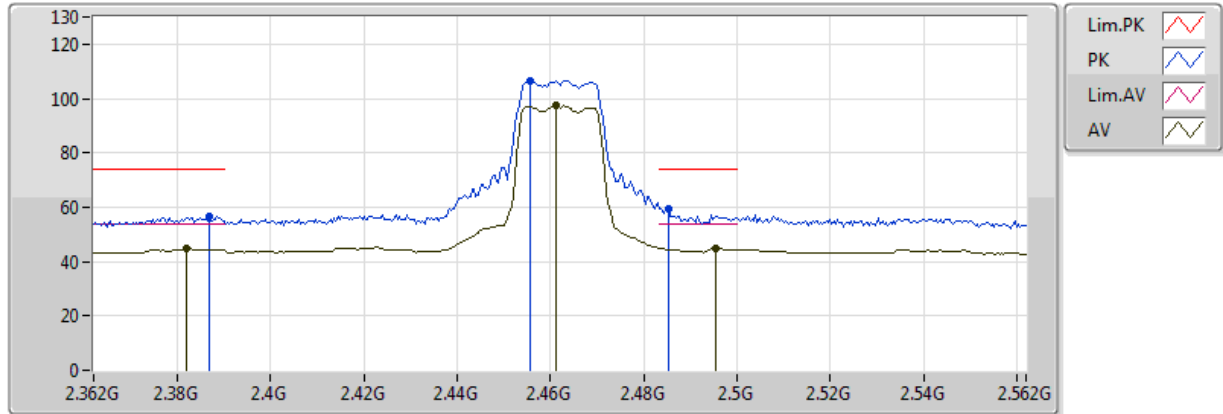


20170623
EUT_X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	44.64	54.00	-9.36	31.04	3	V	20	1.08	-
AV	2.4556G	101.17	Inf	-Inf	30.95	3	V	20	1.08	-
AV	2.4956G	47.29	54.00	-6.71	30.91	3	V	20	1.08	-
PK	2.3896G	56.82	74.00	-17.18	31.04	3	V	20	1.08	-
PK	2.4556G	111.00	Inf	-Inf	30.95	3	V	20	1.08	-
PK	2.4852G	62.21	74.00	-11.79	30.92	3	V	20	1.08	-

802.11g_(6Mbps)_2TX

2462MHz_TX

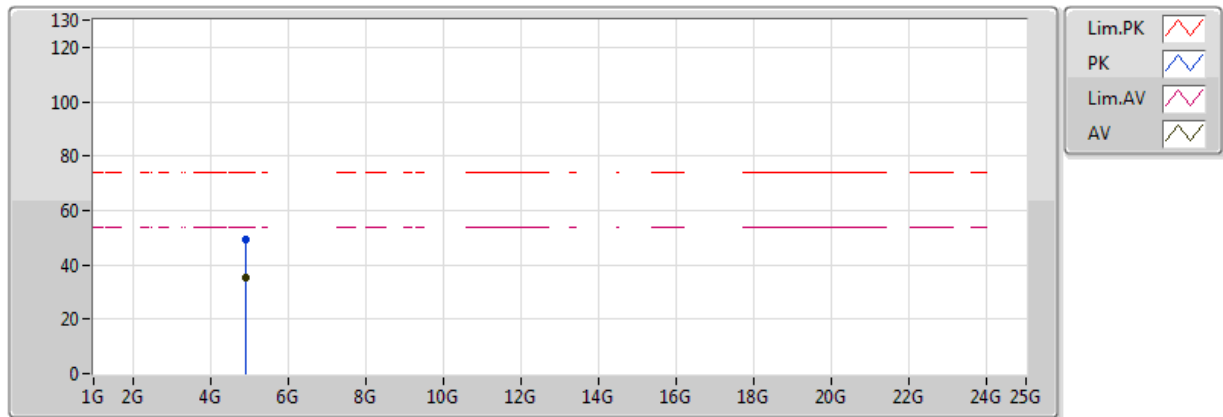


20170623
EUT_X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.382G	44.81	54.00	-9.19	31.05	3	H	291	1.09	-
AV	2.4612G	97.38	Inf	-Inf	30.95	3	H	291	1.09	-
AV	2.4956G	44.95	54.00	-9.05	30.91	3	H	291	1.09	-
PK	2.3868G	56.61	74.00	-17.39	31.04	3	H	291	1.09	-
PK	2.4556G	106.71	Inf	-Inf	30.95	3	H	291	1.09	-
PK	2.4852G	59.25	74.00	-14.75	30.92	3	H	291	1.09	-

802.11g_(6Mbps)_2TX

2462MHz_TX

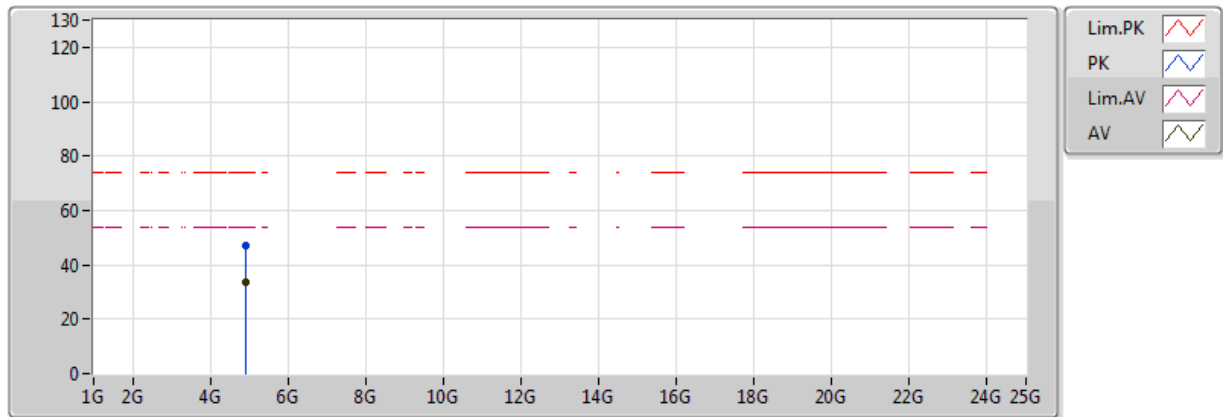


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92414G	35.52	54.00	-18.48	3.70	3	V	50	2.19	-
PK	4.92488G	49.48	74.00	-24.52	3.70	3	V	50	2.19	-

802.11g_(6Mbps)_2TX

2462MHz_TX

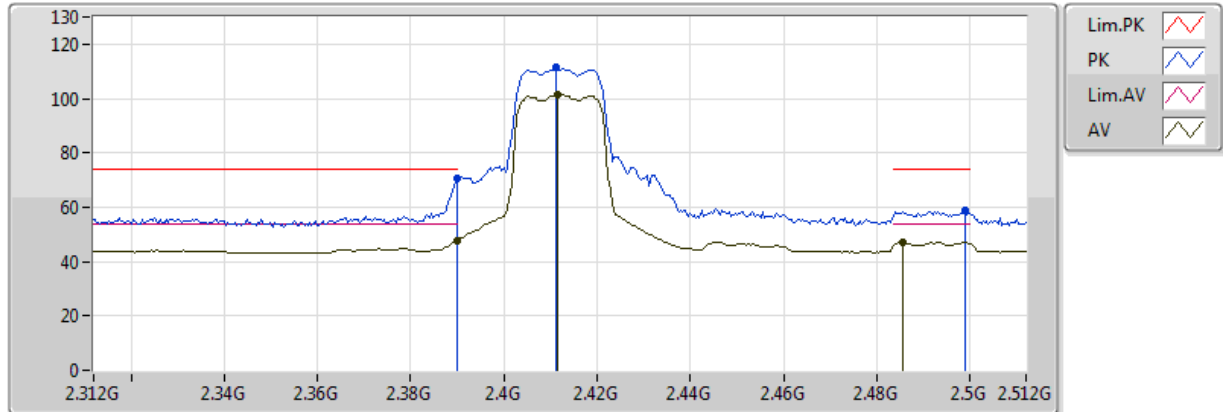


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	33.45	54.00	-20.55	3.70	3	H	312	2.25	-
PK	4.92454G	47.24	74.00	-26.76	3.70	3	H	312	2.25	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

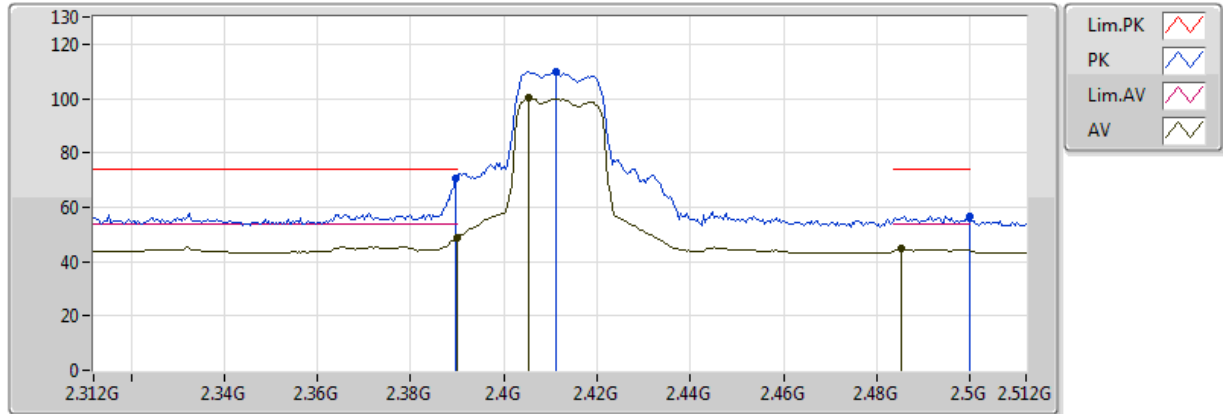


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	47.66	54.00	-6.34	31.04	3	V	17	1.28	-
AV	2.4116G	101.51	Inf	-Inf	31.01	3	V	17	1.28	-
AV	2.4856G	47.09	54.00	-6.91	30.92	3	V	17	1.28	-
PK	2.389998G	70.35	74.00	-3.65	31.04	3	V	17	1.28	-
PK	2.4112G	111.26	Inf	-Inf	31.01	3	V	17	1.28	-
PK	2.4988G	58.74	74.00	-15.26	30.90	3	V	17	1.28	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

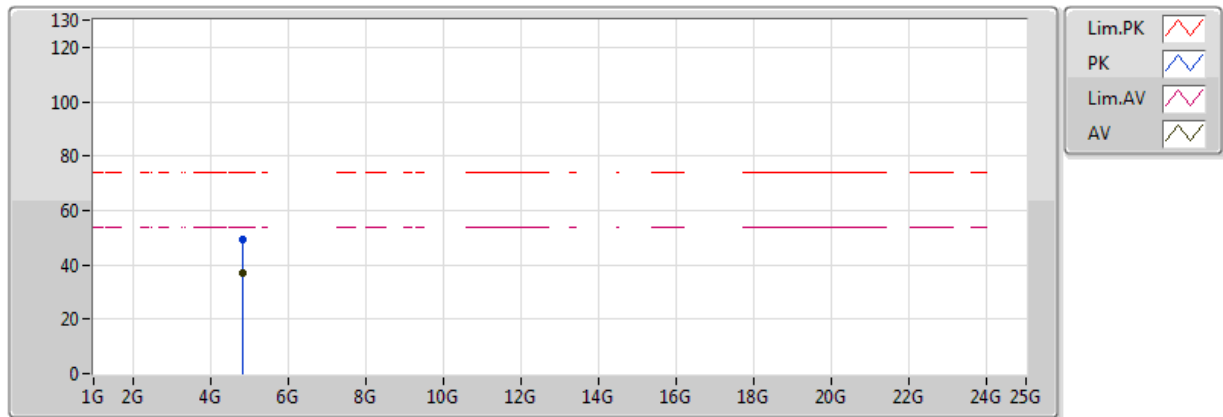


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.71	54.00	-5.29	31.04	3	H	312	1.44	-
AV	2.4052G	100.22	Inf	-Inf	31.01	3	H	312	1.44	-
AV	2.4852G	44.55	54.00	-9.45	30.92	3	H	312	1.44	-
PK	2.3896G	70.58	74.00	-3.42	31.04	3	H	312	1.44	-
PK	2.4112G	109.77	Inf	-Inf	31.01	3	H	312	1.44	-
PK	2.499998G	56.82	74.00	-17.18	30.90	3	H	312	1.44	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

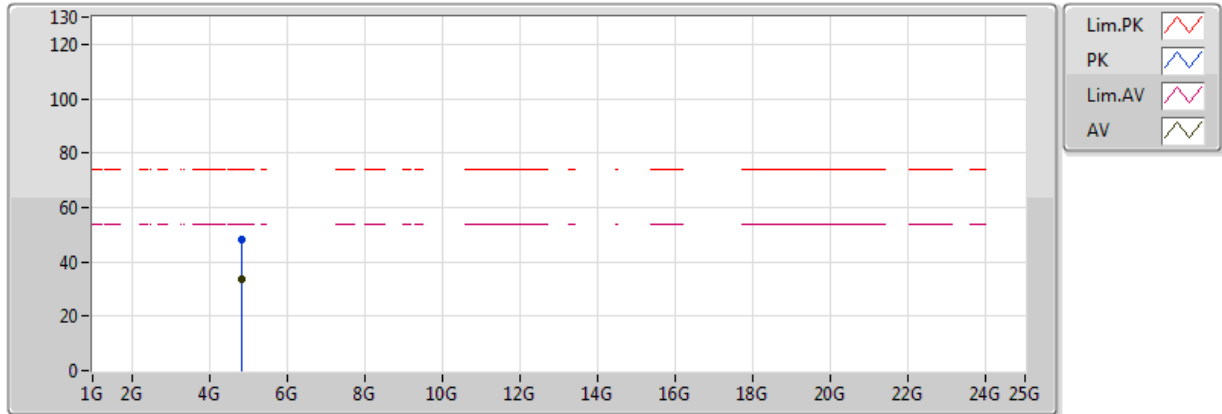


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	36.77	54.00	-17.23	3.40	3	V	348	2.10	-
PK	4.8221G	49.59	74.00	-24.41	3.40	3	V	348	2.10	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

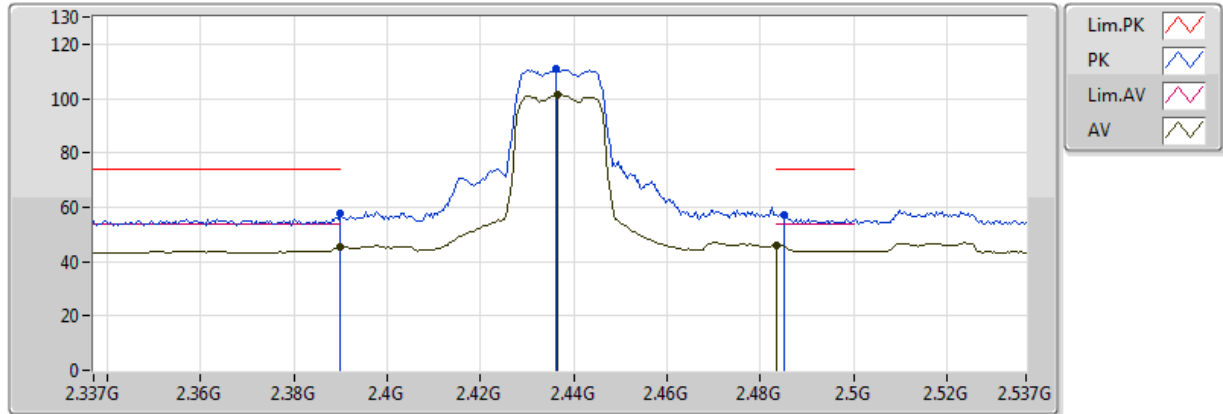


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82436G	33.87	54.00	-20.13	3.40	3	H	221	2.39	-
PK	4.82607G	48.19	74.00	-25.81	3.41	3	H	221	2.39	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

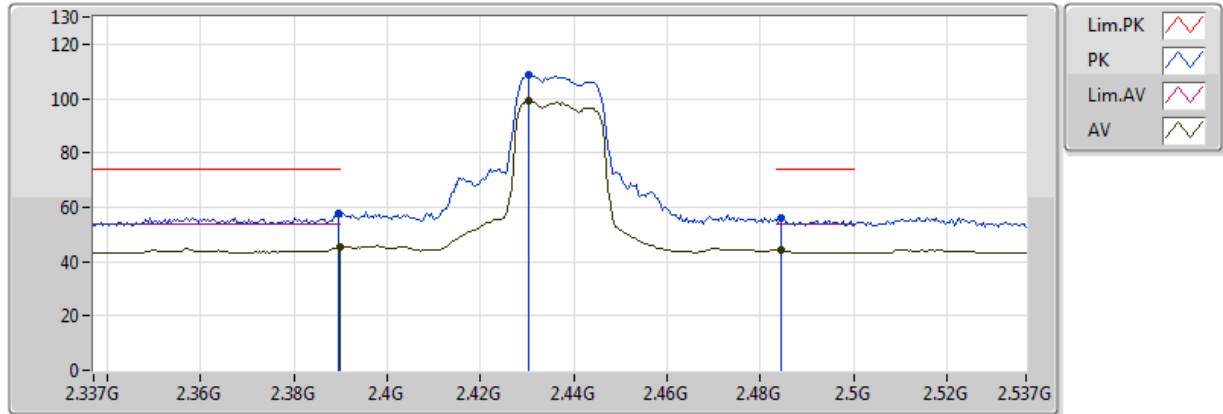


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	45.14	54.00	-8.86	31.04	3	V	17	1.01	-
AV	2.4366G	101.31	Inf	-Inf	30.98	3	V	17	1.01	-
AV	2.483502G	45.88	54.00	-8.12	30.92	3	V	17	1.01	-
PK	2.3898G	57.62	74.00	-16.38	31.04	3	V	17	1.01	-
PK	2.4362G	111.07	Inf	-Inf	30.98	3	V	17	1.01	-
PK	2.485G	57.14	74.00	-16.86	30.92	3	V	17	1.01	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

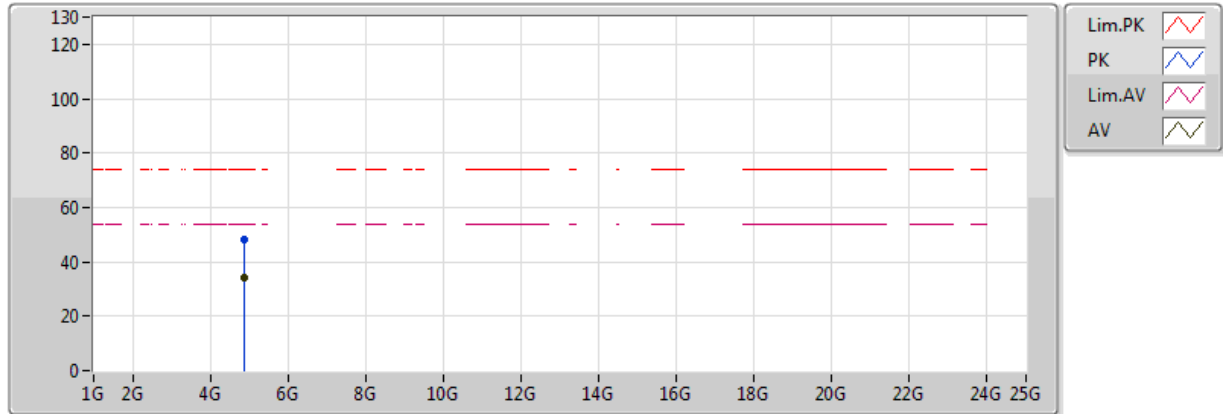


20170623
EUT_X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	45.51	54.00	-8.49	31.04	3	H	305	1.41	-
AV	2.4302G	99.05	Inf	-Inf	30.98	3	H	305	1.41	-
AV	2.4846G	44.11	54.00	-9.89	30.92	3	H	305	1.41	-
PK	2.3894G	57.72	74.00	-16.28	31.04	3	H	305	1.41	-
PK	2.4302G	108.58	Inf	-Inf	30.98	3	H	305	1.41	-
PK	2.4846G	56.23	74.00	-17.77	30.92	3	H	305	1.41	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

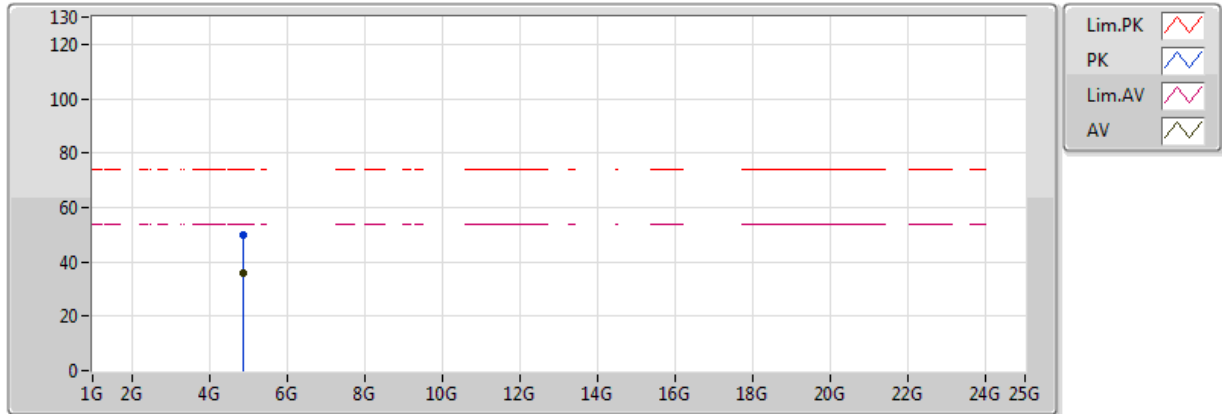


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87477G	33.91	54.00	-20.09	3.55	3	V	2	2.16	-
PK	4.87193G	48.36	74.00	-25.64	3.55	3	V	2	2.16	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

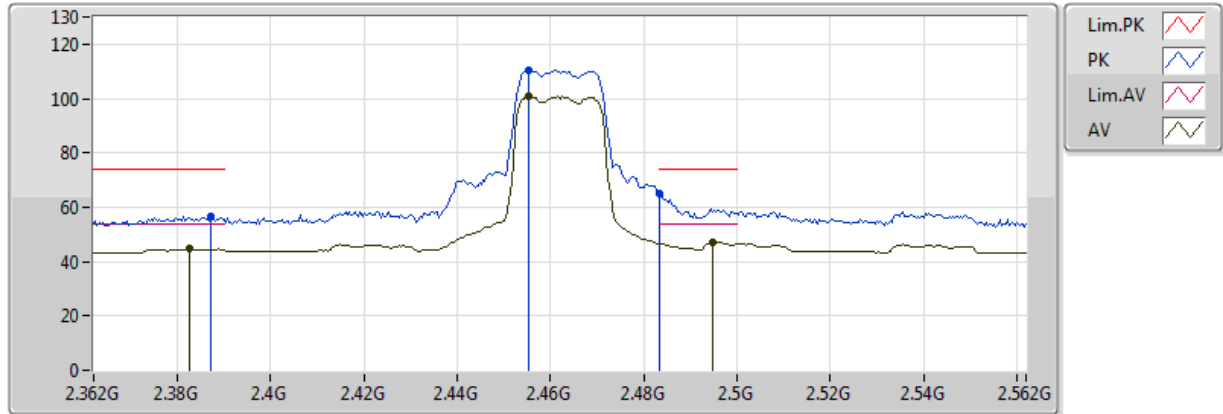


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87409G	35.78	54.00	-18.22	3.55	3	H	207	2.07	-
PK	4.87221G	50.02	74.00	-23.98	3.55	3	H	207	2.07	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

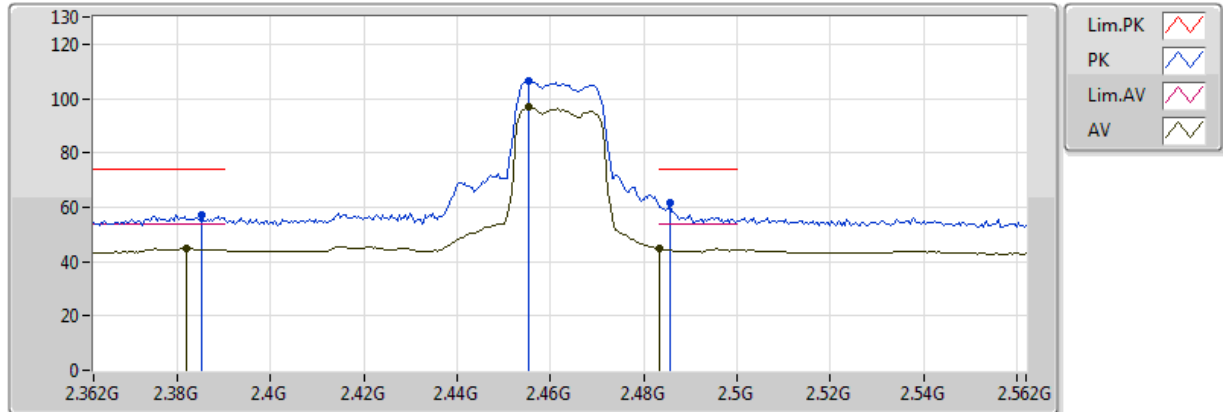


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3824G	44.59	54.00	-9.41	31.05	3	V	18	1.08	-
AV	2.4552G	100.92	Inf	-Inf	30.95	3	V	18	1.08	-
AV	2.4948G	47.24	54.00	-6.76	30.91	3	V	18	1.08	-
PK	2.3872G	56.44	74.00	-17.56	31.04	3	V	18	1.08	-
PK	2.4552G	110.54	Inf	-Inf	30.95	3	V	18	1.08	-
PK	2.483502G	65.00	74.00	-9.00	30.92	3	V	18	1.08	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

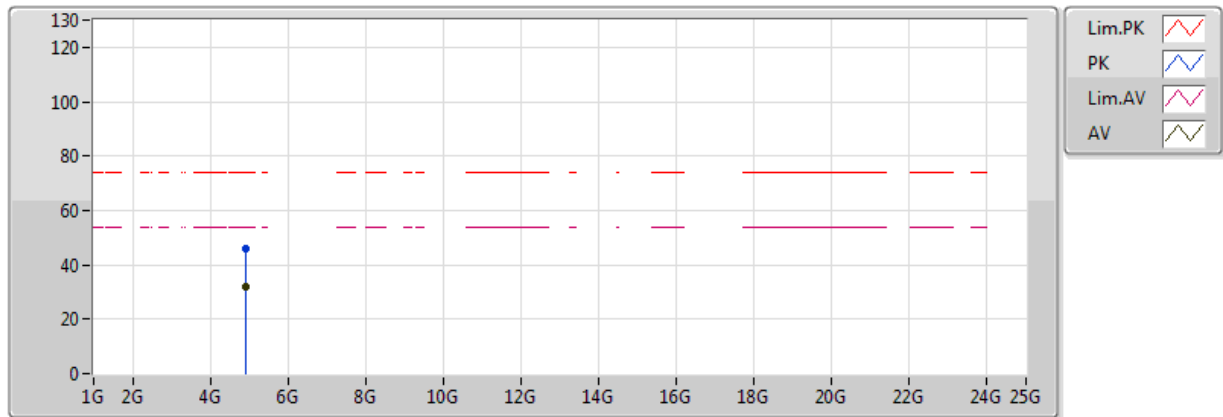


20170623
EUT_X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.382G	45.04	54.00	-8.96	31.05	3	H	309	1.35	-
AV	2.4552G	96.97	Inf	-Inf	30.95	3	H	309	1.35	-
AV	2.483502G	44.67	54.00	-9.33	30.92	3	H	309	1.35	-
PK	2.3852G	57.36	74.00	-16.64	31.04	3	H	309	1.35	-
PK	2.4552G	106.47	Inf	-Inf	30.95	3	H	309	1.35	-
PK	2.4856G	61.71	74.00	-12.29	30.92	3	H	309	1.35	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

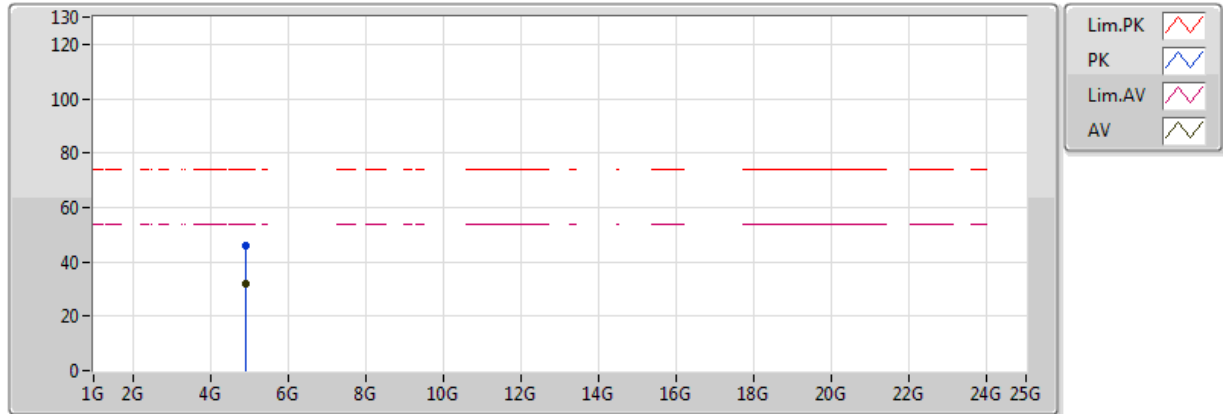


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92166G	32.04	54.00	-21.96	3.69	3	V	220	2.27	-
PK	4.92381G	45.93	74.00	-28.07	3.70	3	V	220	2.27	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

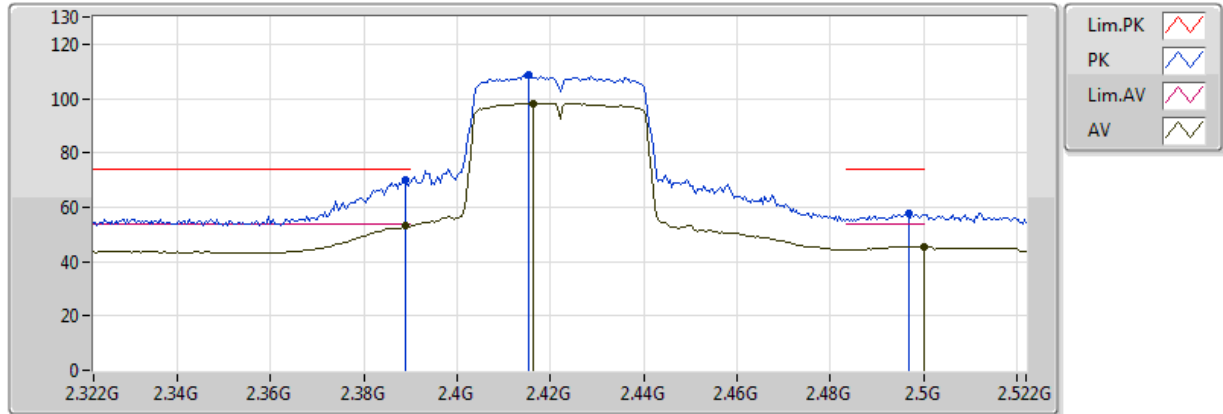


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92194G	31.98	54.00	-22.02	3.69	3	H	90	2.36	-
PK	4.92186G	46.01	74.00	-27.99	3.69	3	H	90	2.36	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

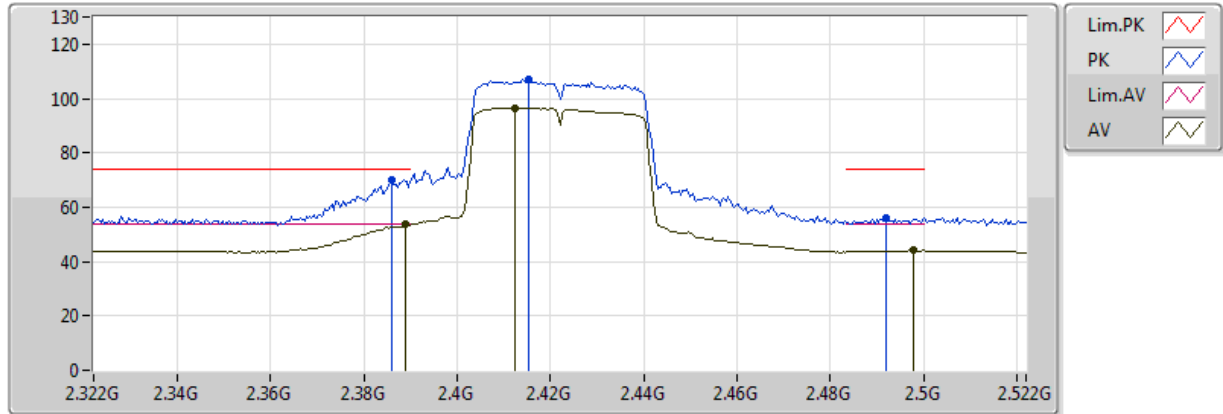


20170623
EUT_X_2TX
Setting 46/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	53.05	54.00	-0.95	31.04	3	V	19	1.09	-
AV	2.4164G	98.25	Inf	-Inf	31.00	3	V	19	1.09	-
AV	2.499998G	45.65	54.00	-8.35	30.90	3	V	19	1.09	-
PK	2.3888G	69.92	74.00	-4.08	31.04	3	V	19	1.09	-
PK	2.4152G	108.74	Inf	-Inf	31.00	3	V	19	1.09	-
PK	2.4968G	57.56	74.00	-16.44	30.90	3	V	19	1.09	-

802.11n HT40_Nss1,(MCS0)_2TX

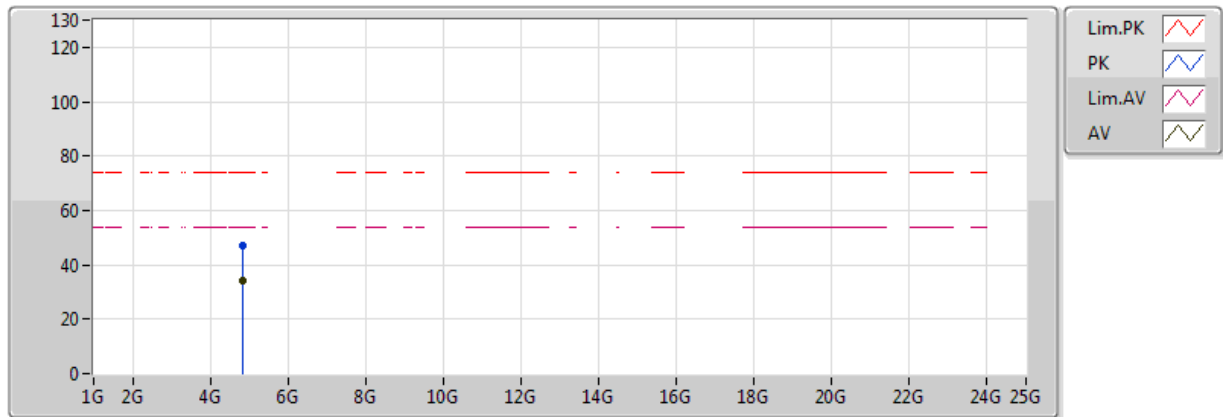
2422MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	53.56	54.00	-0.44	31.04	3	H	303	1.00	-
AV	2.4124G	96.55	Inf	-Inf	31.01	3	H	303	1.00	-
AV	2.498G	44.05	54.00	-9.95	30.90	3	H	303	1.00	-
PK	2.386G	69.91	74.00	-4.09	31.04	3	H	303	1.00	-
PK	2.4152G	107.13	Inf	-Inf	31.00	3	H	303	1.00	-
PK	2.492G	56.09	74.00	-17.91	30.91	3	H	303	1.00	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

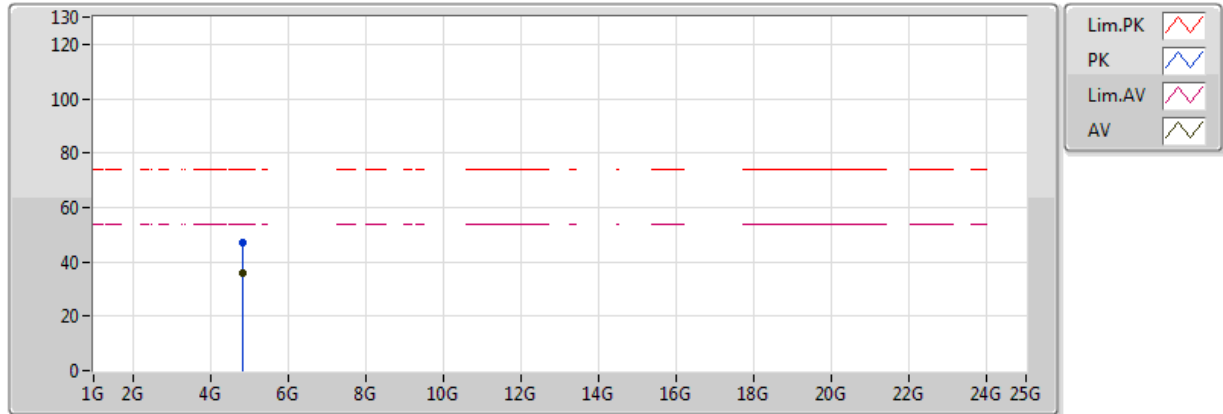


20170623
EUT X_2TX
Setting 46/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.84397G	34.45	54.00	-19.55	3.46	3	V	228	2.07	-
PK	4.84304G	47.30	74.00	-26.70	3.46	3	V	228	2.07	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

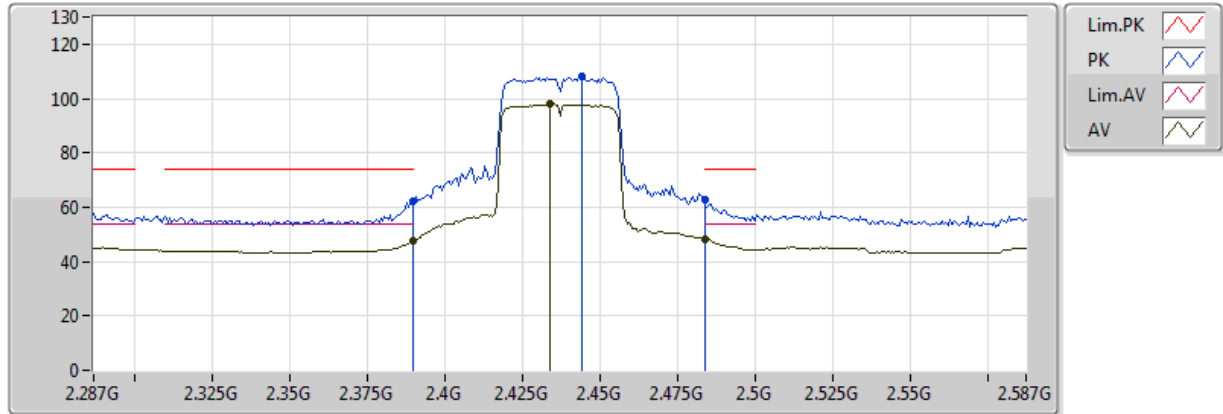


20170623
EUT X_2TX
Setting 46/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.84407G	35.68	54.00	-18.32	3.46	3	H	283	1.34	-
PK	4.84422G	46.98	74.00	-27.02	3.46	3	H	283	1.34	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

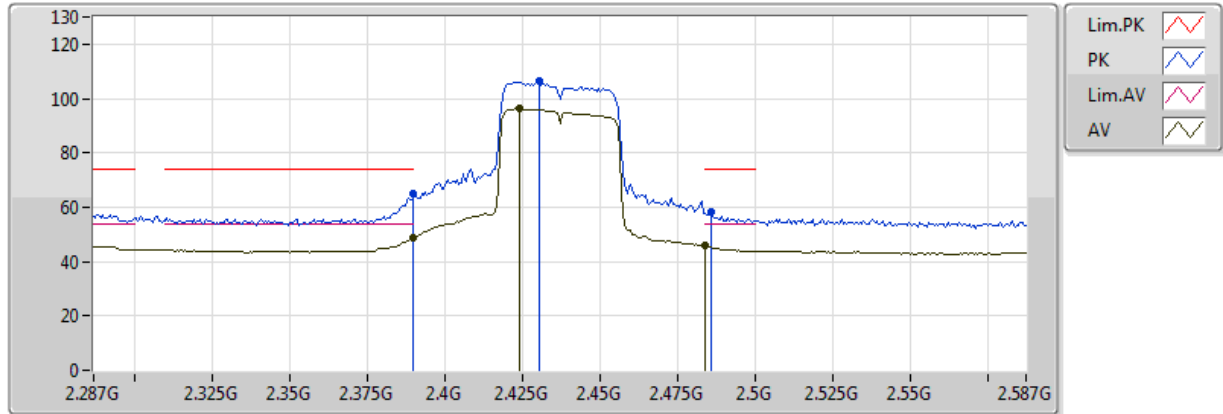


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	47.67	54.00	-6.33	31.04	3	V	19	1.01	-
AV	2.434G	97.92	Inf	-Inf	30.98	3	V	19	1.01	-
AV	2.483502G	48.15	54.00	-5.85	30.92	3	V	19	1.01	-
PK	2.389998G	62.12	74.00	-11.88	31.04	3	V	19	1.01	-
PK	2.4442G	108.02	Inf	-Inf	30.97	3	V	19	1.01	-
PK	2.483502G	62.66	74.00	-11.34	30.92	3	V	19	1.01	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

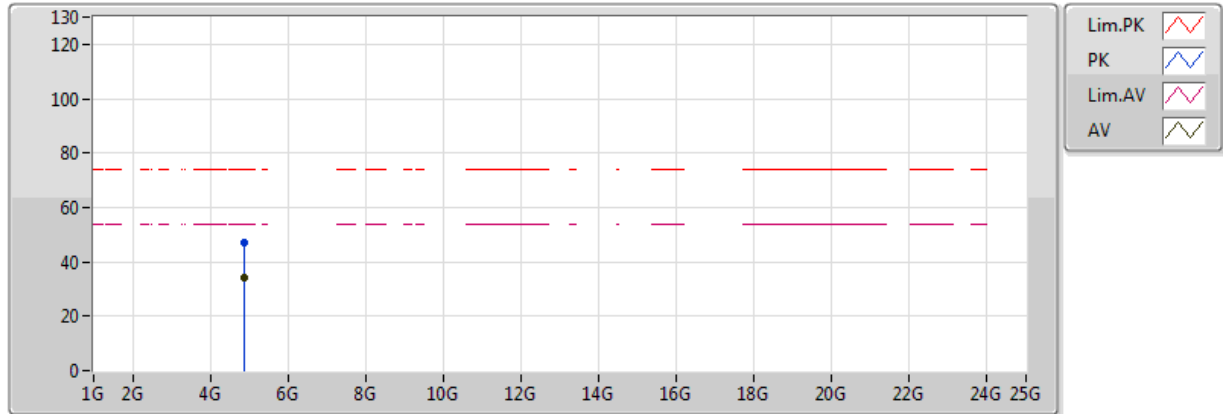


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.70	54.00	-5.30	31.04	3	H	307	1.20	-
AV	2.4238G	96.32	Inf	-Inf	30.99	3	H	307	1.20	-
AV	2.4838G	45.91	54.00	-8.09	30.92	3	H	307	1.20	-
PK	2.389998G	64.85	74.00	-9.15	31.04	3	H	307	1.20	-
PK	2.4304G	106.36	Inf	-Inf	30.98	3	H	307	1.20	-
PK	2.4856G	58.34	74.00	-15.66	30.92	3	H	307	1.20	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

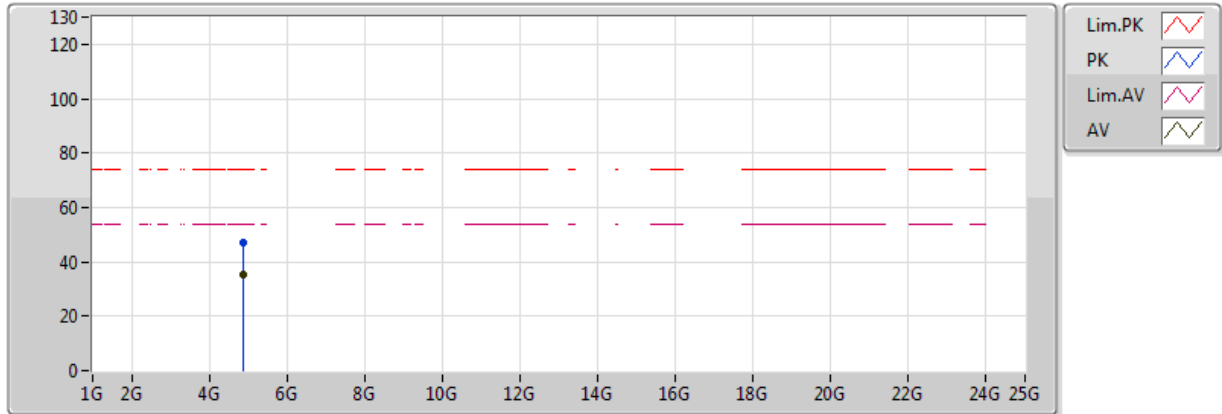


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87428G	34.30	54.00	-19.70	3.55	3	V	73	2.11	-
PK	4.8719G	46.86	74.00	-27.14	3.55	3	V	73	2.11	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

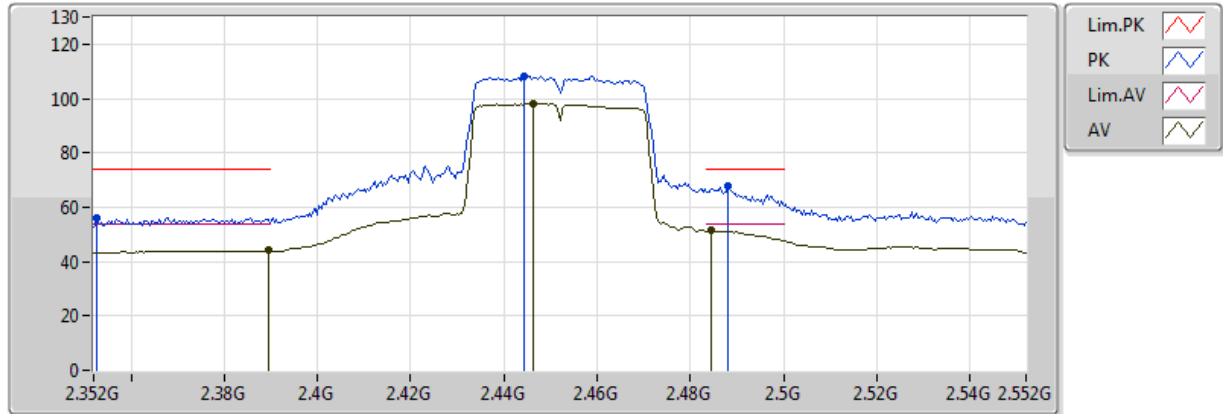


20170623
EUT X_2TX
Setting 47/46
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87424G	35.17	54.00	-18.83	3.55	3	H	253	2.45	-
PK	4.87288G	46.96	74.00	-27.04	3.55	3	H	253	2.45	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

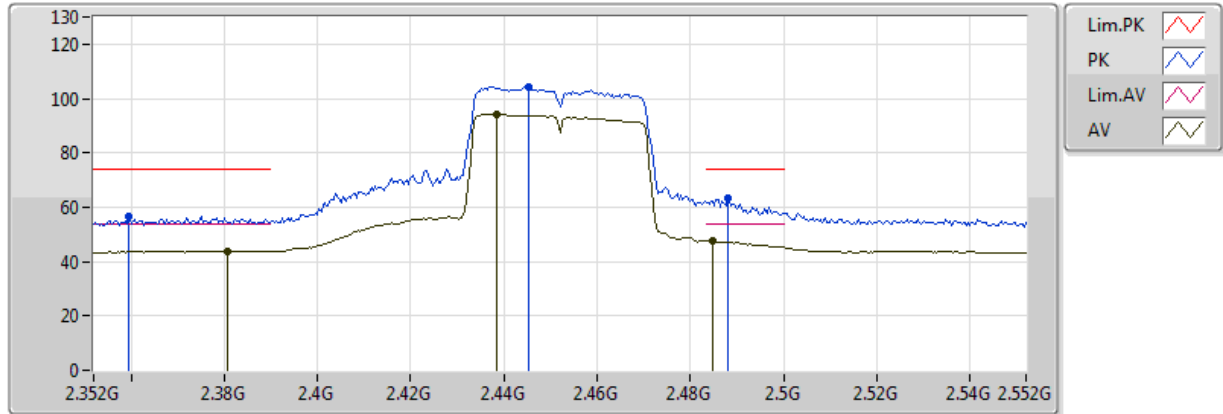


20170623
EUT_X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	44.01	54.00	-9.99	31.04	3	V	16	1.02	-
AV	2.4464G	98.05	Inf	-Inf	30.96	3	V	16	1.02	-
AV	2.4844G	51.64	54.00	-2.36	30.92	3	V	16	1.02	-
PK	2.3528G	56.14	74.00	-17.86	31.09	3	V	16	1.02	-
PK	2.4444G	108.39	Inf	-Inf	30.97	3	V	16	1.02	-
PK	2.488G	68.00	74.00	-6.00	30.91	3	V	16	1.02	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

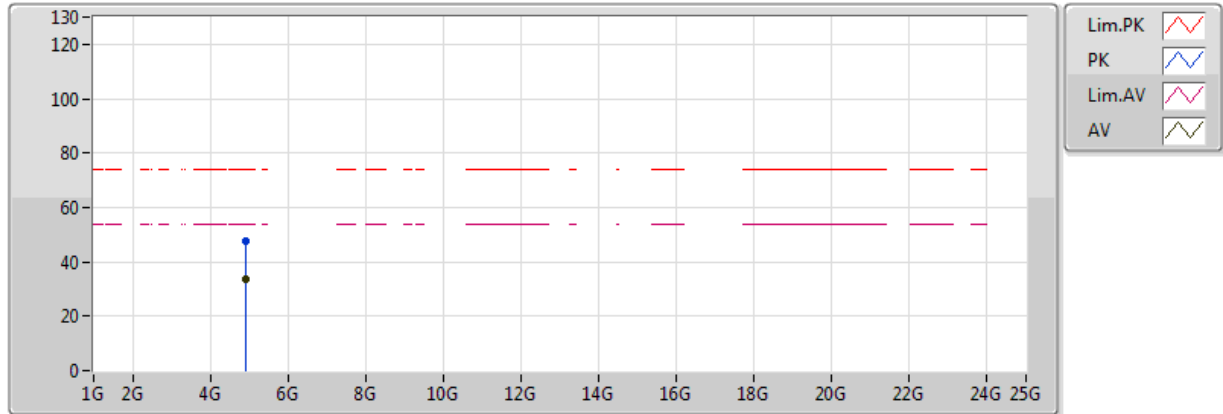


20170623
EUT_X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3808G	43.84	54.00	-10.16	31.05	3	H	286	1.36	-
AV	2.4384G	94.21	Inf	-Inf	30.97	3	H	286	1.36	-
AV	2.4848G	47.55	54.00	-6.45	30.92	3	H	286	1.36	-
PK	2.3596G	56.56	74.00	-17.44	31.08	3	H	286	1.36	-
PK	2.4452G	104.36	Inf	-Inf	30.97	3	H	286	1.36	-
PK	2.488G	63.54	74.00	-10.46	30.91	3	H	286	1.36	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

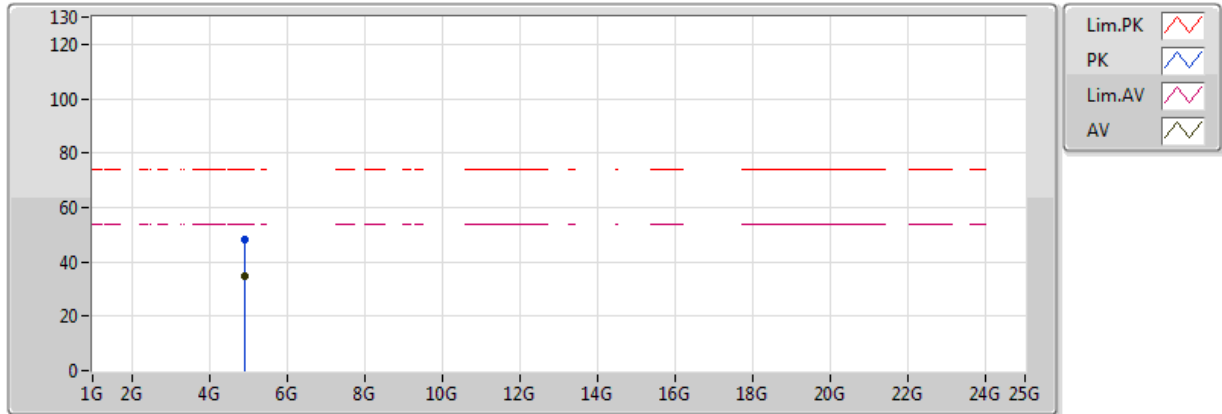


20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9042G	33.50	54.00	-20.50	3.64	3	V	136	1.41	-
PK	4.90328G	47.39	74.00	-26.61	3.64	3	V	136	1.41	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX



20170623
EUT X_2TX
Setting 48/47
01-W-3
FSP(100056)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.90399G	34.69	54.00	-19.31	3.64	3	H	299	2.24	-
PK	4.90525G	48.32	74.00	-25.68	3.65	3	H	299	2.24	-