



FCC Test Report

Equipment : AC1750 Wireless Dual Band Gigabit Router
Brand Name : tp-link
Model No. : Archer C7 , Archer A7
FCC ID : TE7C7V5
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China
Manufacturer : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China

The product sample received on Oct. 02, 2017 and completely tested on Oct. 25, 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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PHOTOGRAPHS OF EUT V01



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



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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



1.1.2 Antenna Information

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	TP-LINK	3101501493	Dipole Antenna	I-PEX	3	5
2	TP-LINK	3101501495	Dipole Antenna	I-PEX	3	5
3	TP-LINK	3101501496	Dipole Antenna	I-PEX	3	5

Note1: The EUT has three antennas.

For 2.4GHz function:

For IEEE 802.11b/g/n mode (3TX/3RX)

Ant. 1 (port 1), Ant. 2 (port 2) and Ant. 3 (port 3) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac mode (3TX/3RX)

Ant. 1 (port 1), Ant. 2 (port 2) and Ant. 3 (port 3) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b	0.996	0.017
802.11g	0.979	0.092
802.11n HT20	0.974	0.114
802.11n HT40	0.963	0.164

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
Test Software Version	Cart.exe		

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
AC1750 Wireless Dual Band Gigabit Router	Archer C7	All the models are identical, the different model names served as marketing strategy.
	Archer A7	

From the above models, model: Archer C7 was selected as representative model for the test and its data was recorded in this report.



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
RF Conducted	TH01-CB	Owen Hsu & Serway Li	22°C / 54%	Oct. 17, 2017 ~ Oct. 25, 2017
Radiated	03CH01-CB	Welson Chen & Joy Tseng	22°C / 54%	Oct. 13, 2017 ~ Oct. 25, 2017
AC Conduction	CO01-CB	Tony Chang	23°C / 60%	Oct. 18, 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 x10 ⁻⁸	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_3TX	-
2412MHz	17
2437MHz	25
2462MHz	17.5
802.11g_Nss1,(6Mbps)_3TX	-
2412MHz	13
2437MHz	20.5
2462MHz	13
802.11n HT20_Nss1,(MCS0)_3TX	-
2412MHz	13
2437MHz	19.5
2462MHz	12
802.11n HT40_Nss1,(MCS0)_3TX	-
2422MHz	8.5
2437MHz	13
2452MHz	8.5

2.2 The Worst Case Measurement Configuration

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Y axis
2	EUT in Z axis
Mode 2 generated the worst test result, so it was recorded in this report.	
Operating Mode > 1GHz	CTX The EUT was performed at 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.
1	EUT in Y axis

Note: For band-edge emissions, the worst case of the antenna polarization is judged at first, and the worst case is found in vertical.

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT in Y axis - WLAN 2.4GHz +WLAN 5GHz
2	EUT in Z axis - WLAN 2.4GHz +WLAN 5GHz
Mode 1 generated the worst test result, so it was recorded in this report.	
Refer to Appendix G for Radiated Emission Co-location.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA792923 for Co-location RF Exposure Evaluation.	

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			
Equipment Name	Brand Name	Model Name	Rating
Adapter	tp-link	T120150-2B1	INPUT: 100-240V, ~ 50/60Hz, 0.6A 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*4	DELL	E6430	DoC
2	Flash disk3.0	Transcend	JetFlash-700	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	Flash disk3.0	Transcend	JetFlash-700	DoC

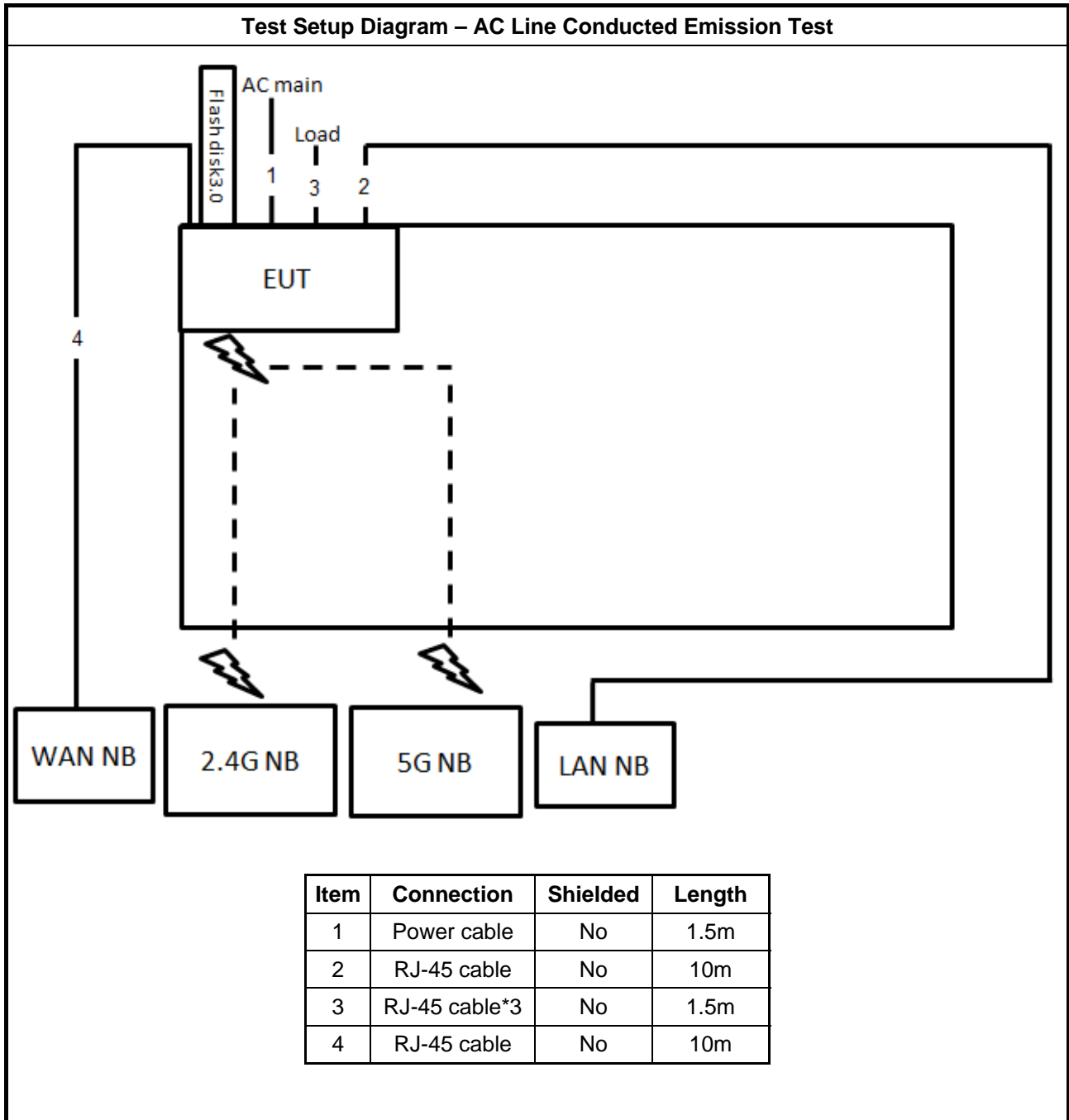
For Test Site No: 03CH01-CB (above 1GHz)

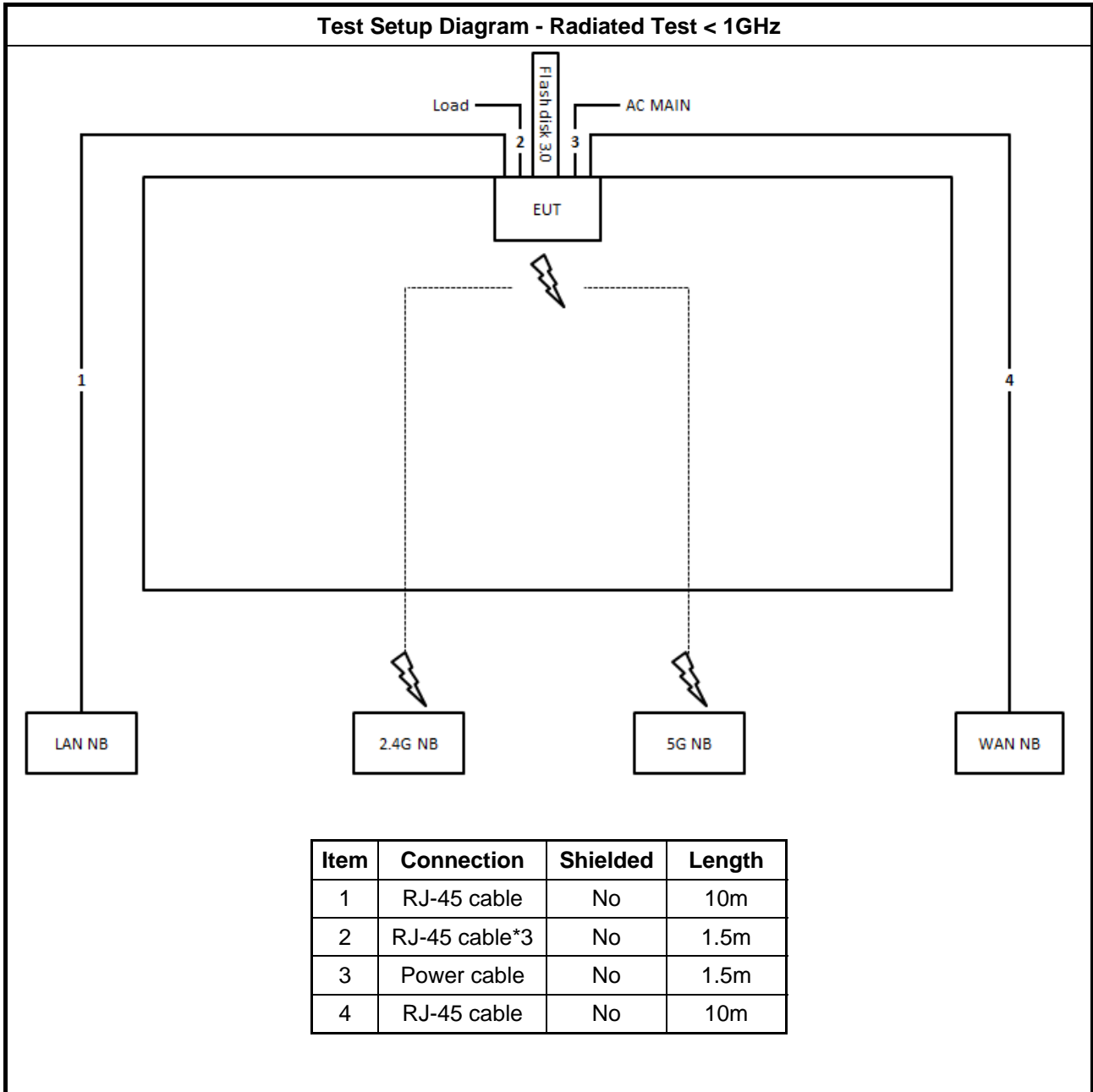
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

For Test Site No: TH01-CB

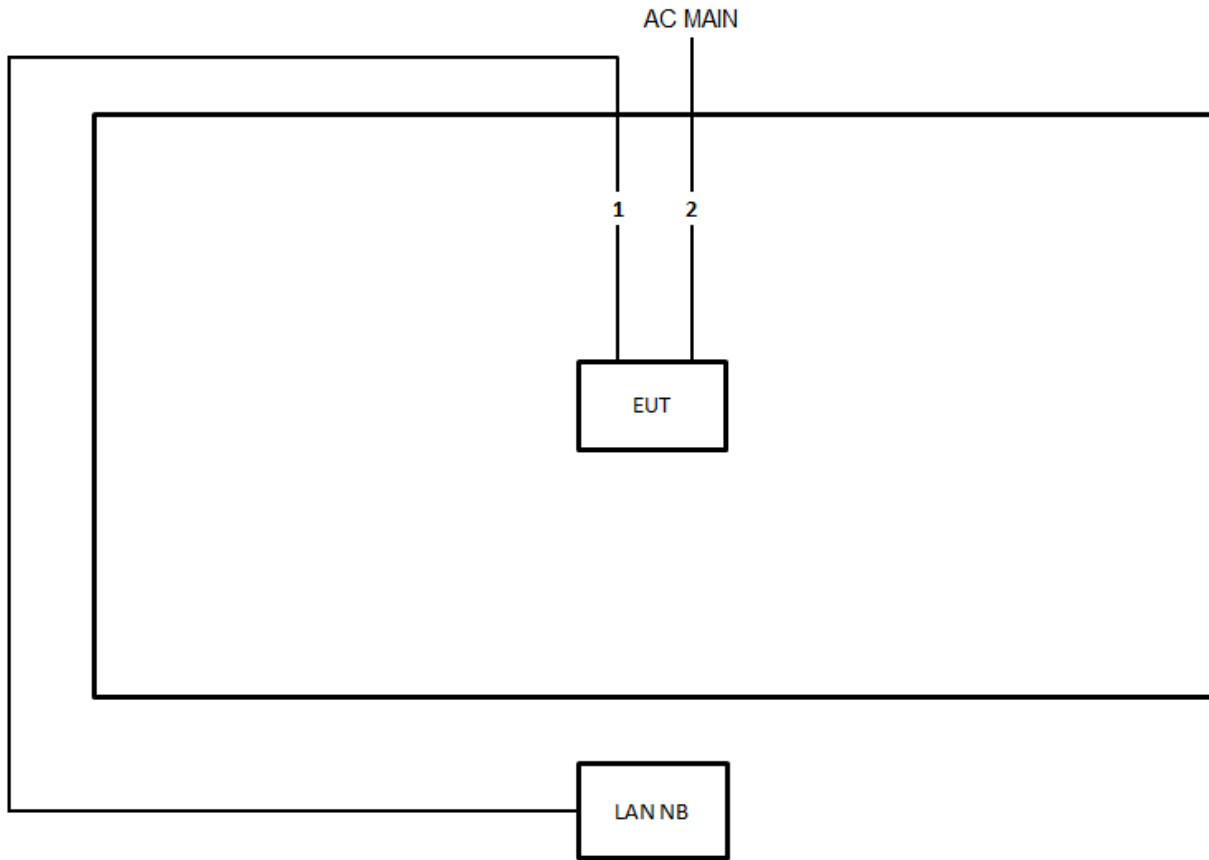
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram





Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

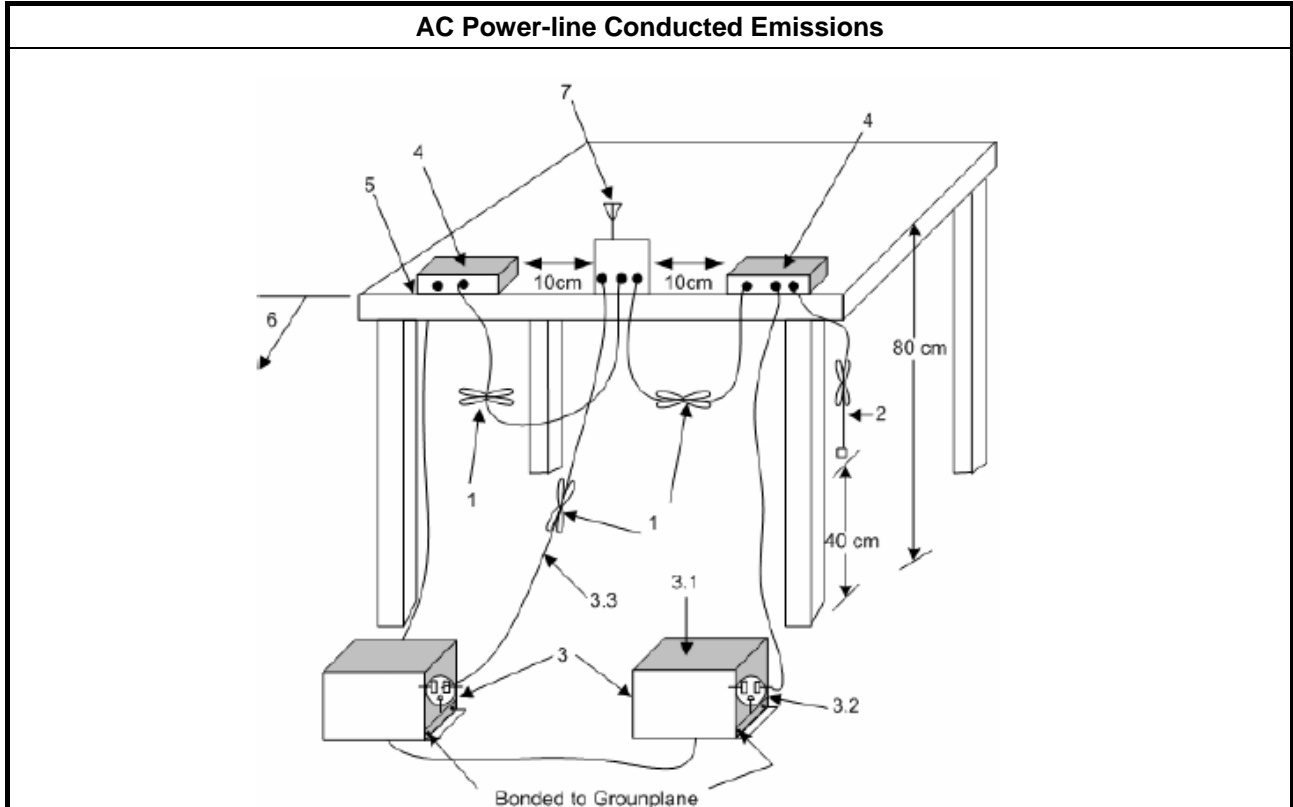
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<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 A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

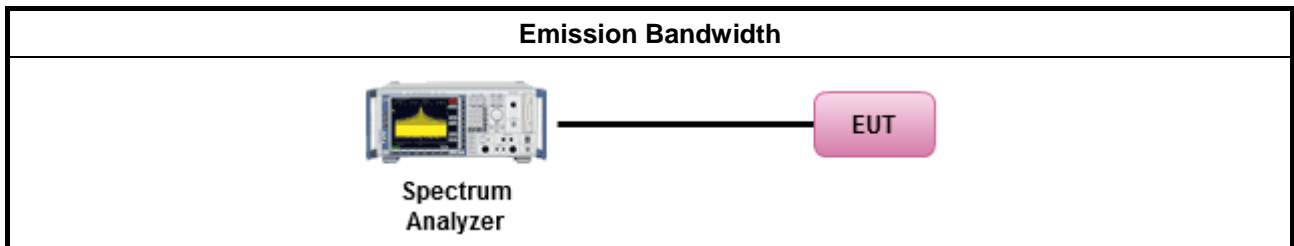
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> 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	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS): <ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

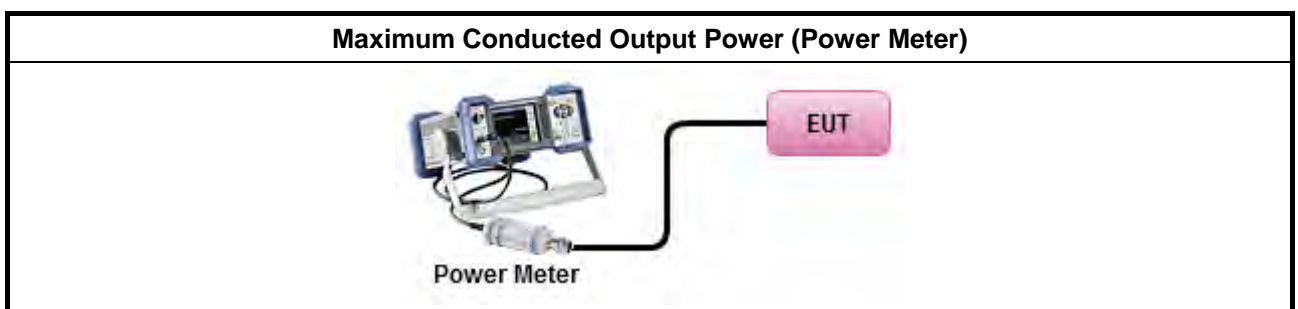
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPMM-G (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) \leq 8 dBm/3kHz

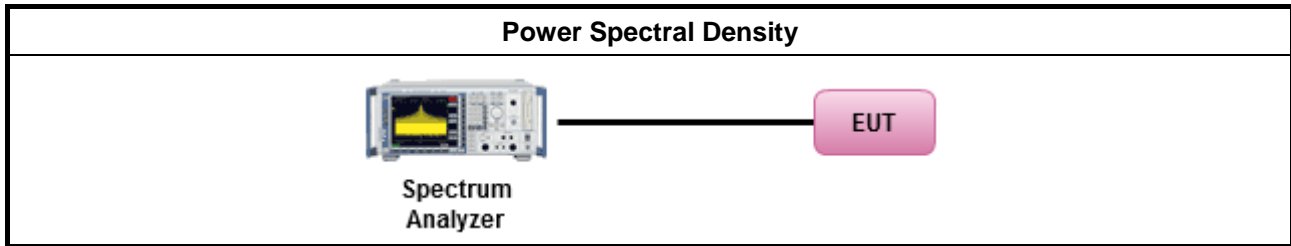
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ 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).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle \geq 98% or external video / power trigger]
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).
<input type="checkbox"/> 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
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement.
<ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 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. <input type="checkbox"/> 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, <input type="checkbox"/> 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.

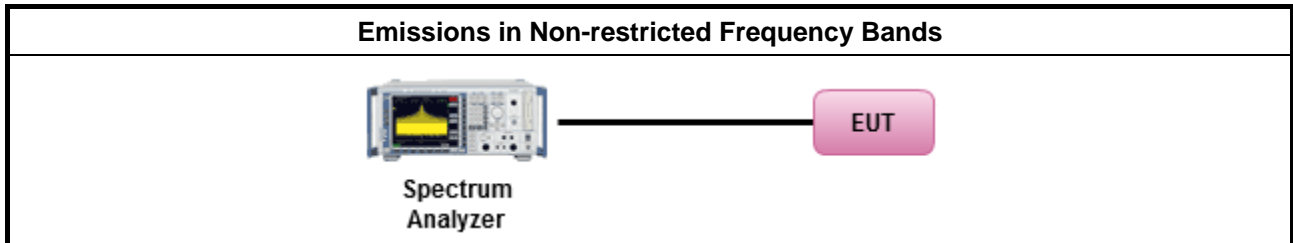
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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.

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

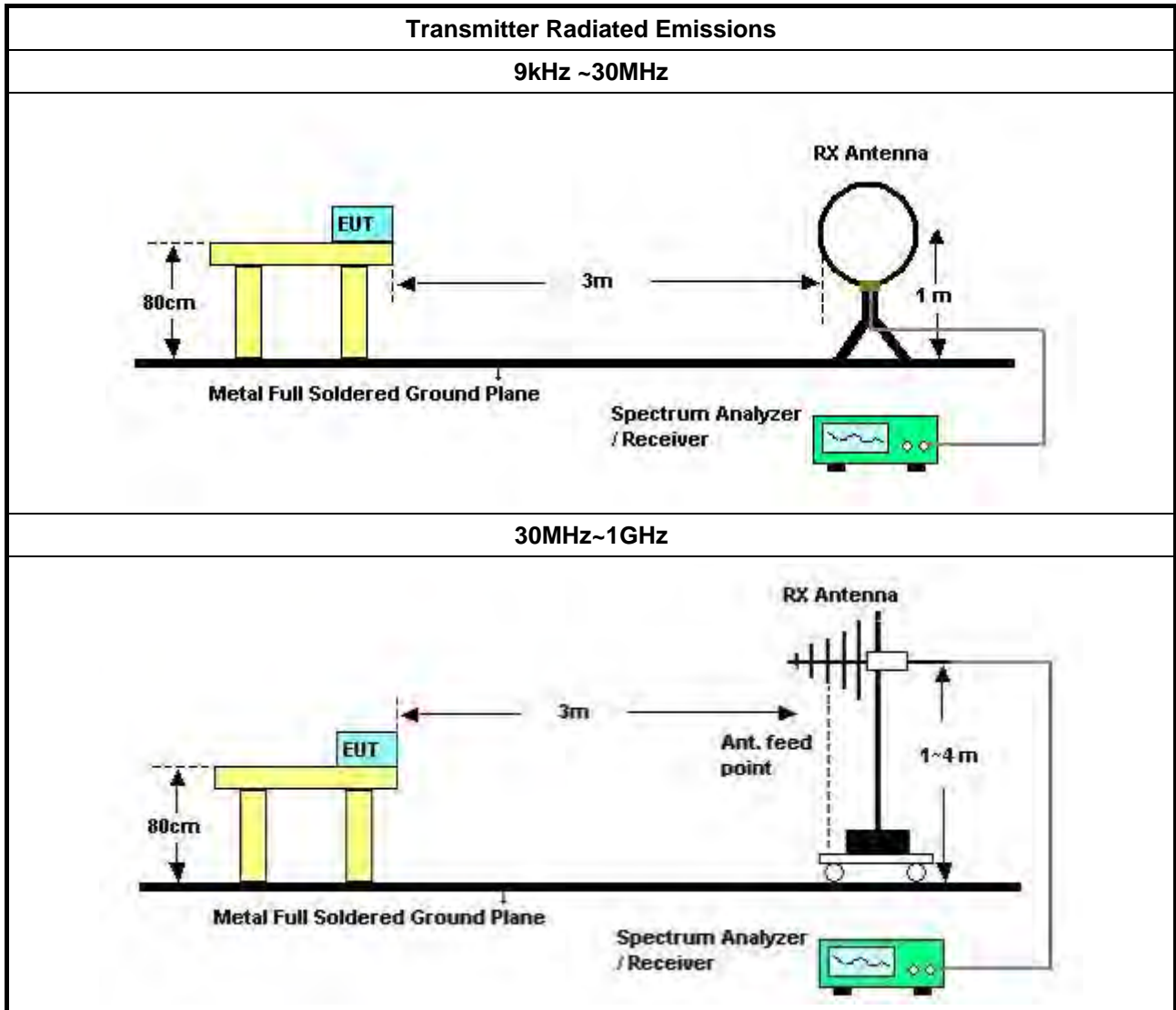
3.6.2 Measuring Instruments

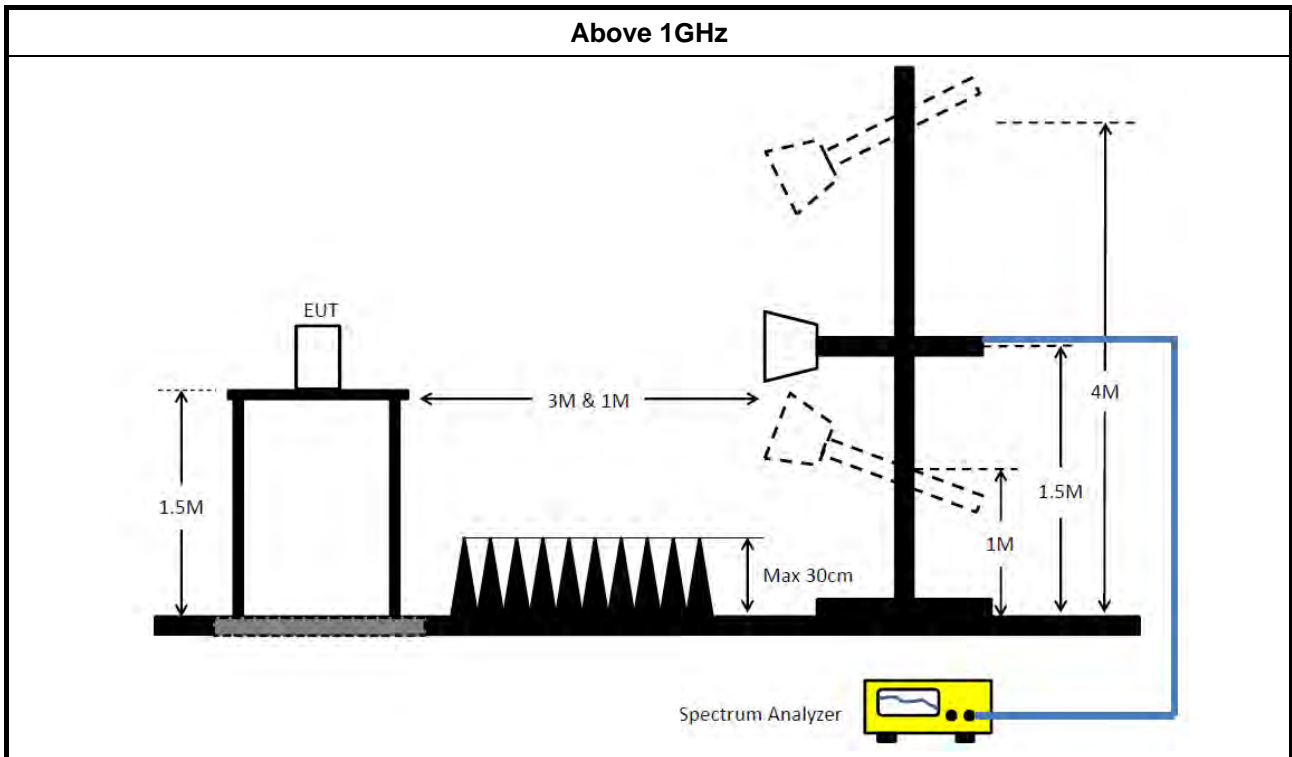
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
<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.

3.6.4 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	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-50-1 6-2	04083	150kHz~ 00MHz	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 & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 10, 2016	Nov. 09, 2017	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)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	N/A	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

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

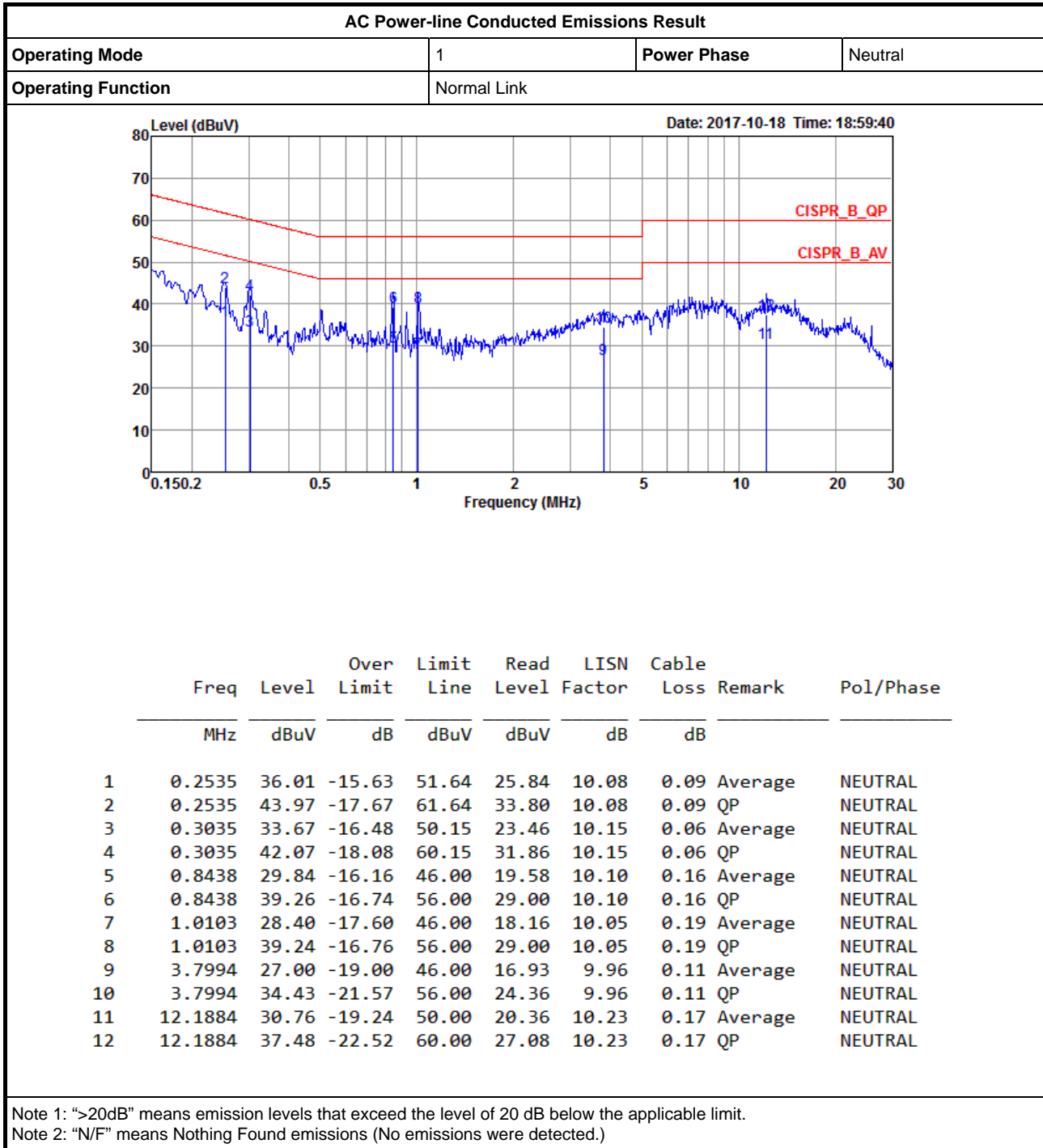
“*” Calibration Interval of instruments listed above is two years.

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



AC Power-line Conducted Emissions Result

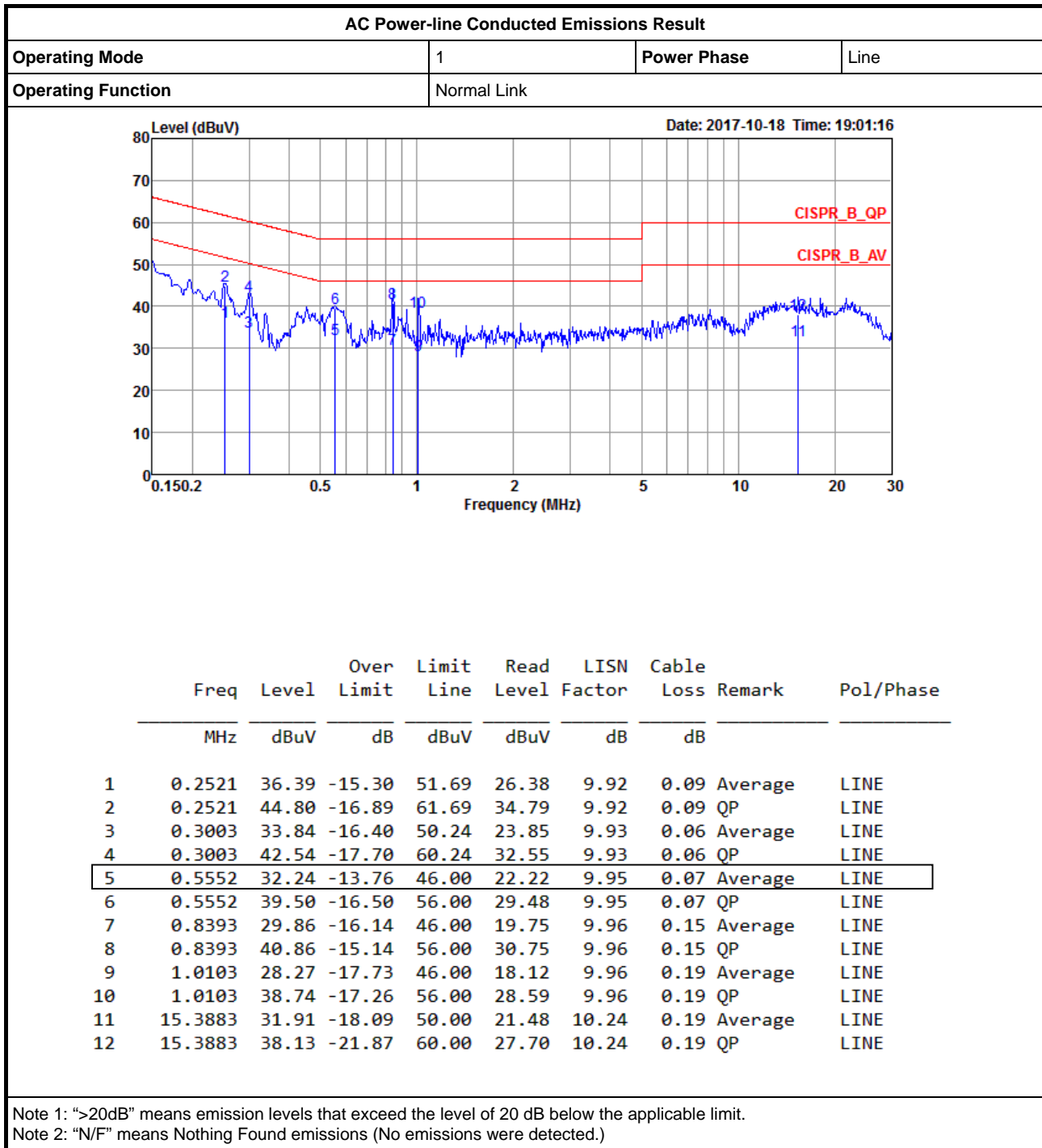
Appendix A





AC Power-line Conducted Emissions Result

Appendix A





Summary

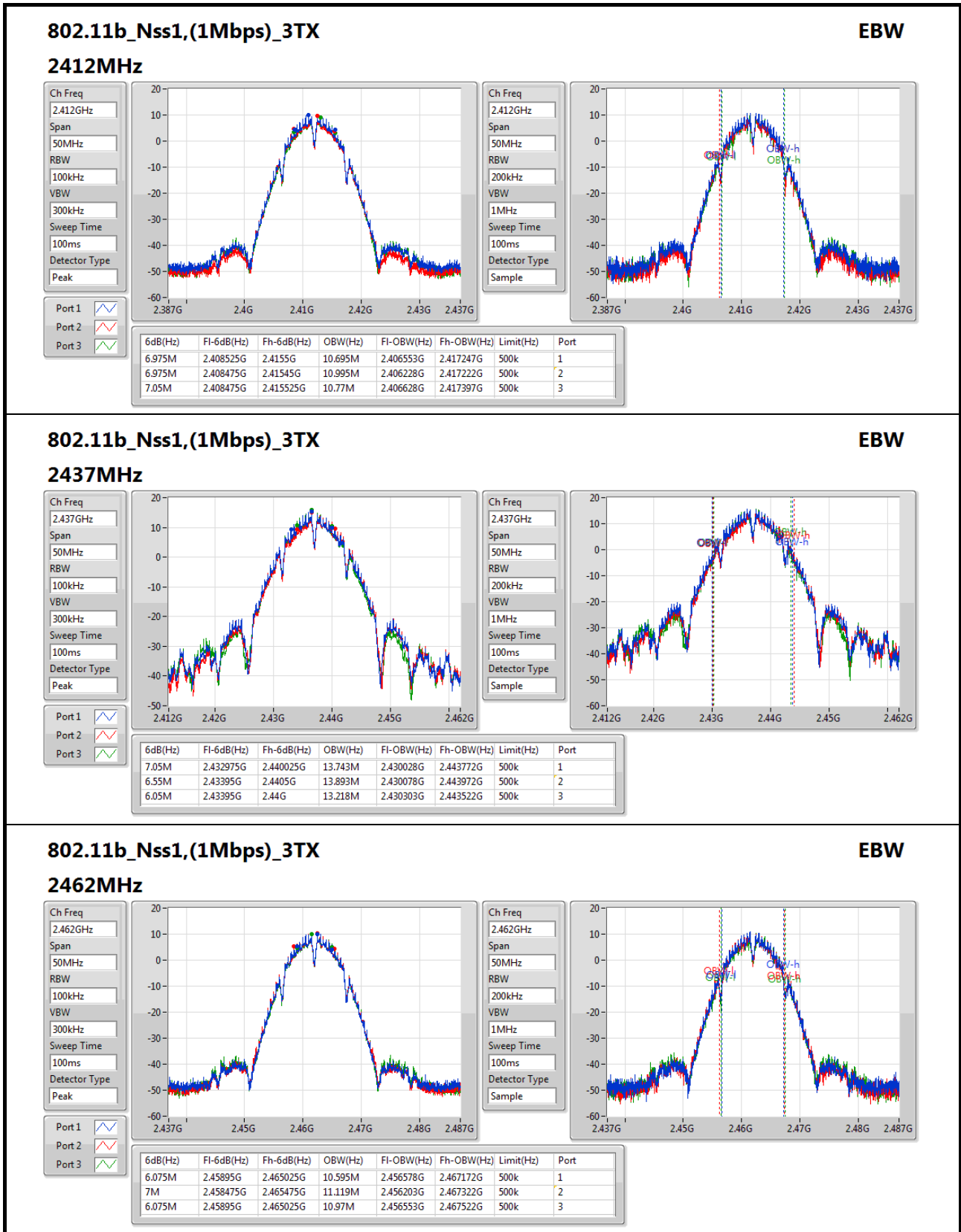
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	7.075M	13.893M	13M9G1D	6.05M	10.52M
802.11g_Nss1,(6Mbps)_3TX	15.475M	16.492M	16M5D1D	14.675M	16.217M
802.11n HT20_Nss1,(MCS0)_3TX	15.675M	17.466M	17M5D1D	14.95M	17.341M
802.11n HT40_Nss1,(MCS0)_3TX	35M	35.832M	35M8D1D	27.55M	35.632M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	6.975M	10.695M	6.975M	10.995M	7.05M	10.77M
2437MHz	Pass	500k	7.05M	13.743M	6.55M	13.893M	6.05M	13.218M
2462MHz	Pass	500k	6.075M	10.595M	7M	11.119M	6.075M	10.97M
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	14.675M	16.217M	15.475M	16.242M	15.075M	16.292M
2437MHz	Pass	500k	14.975M	16.392M	15.05M	16.492M	15.075M	16.342M
2462MHz	Pass	500k	15.025M	16.242M	15.025M	16.242M	15.4M	16.242M
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	14.975M	17.366M	14.95M	17.366M	15.025M	17.341M
2437MHz	Pass	500k	15.075M	17.466M	15.1M	17.466M	15.025M	17.416M
2462MHz	Pass	500k	15.225M	17.366M	15.05M	17.391M	15.025M	17.416M
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35M	35.782M	30.05M	35.682M	31.25M	35.632M
2437MHz	Pass	500k	33.75M	35.682M	31.35M	35.832M	27.55M	35.732M
2452MHz	Pass	500k	35M	35.782M	33.75M	35.832M	32.5M	35.732M

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

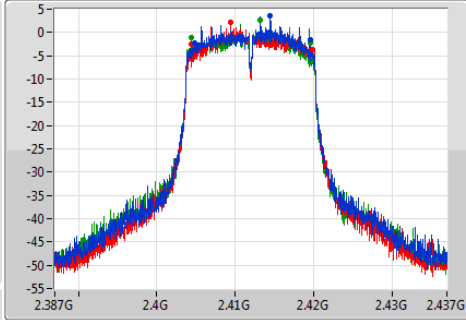


802.11g_Nss1,(6Mbps)_3TX

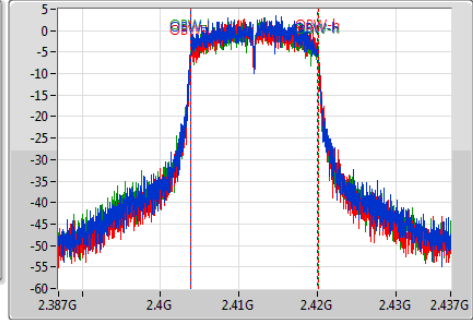
EBW

2412MHz

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



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



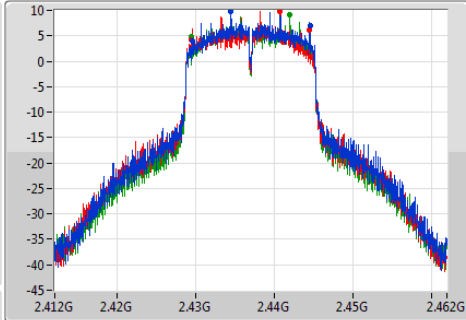
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.675M	2.40485G	2.419525G	16.217M	2.403854G	2.420071G	500k	1
15.475M	2.404425G	2.4199G	16.242M	2.403879G	2.420121G	500k	2
15.075M	2.40445G	2.419525G	16.292M	2.403804G	2.420096G	500k	3

802.11g_Nss1,(6Mbps)_3TX

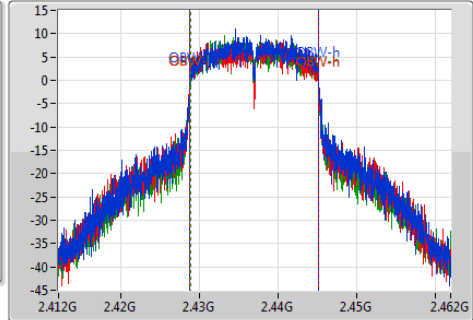
EBW

2437MHz

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



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



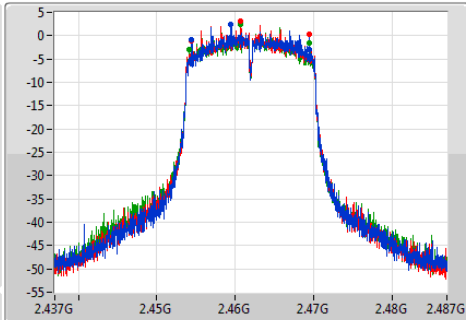
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.975M	2.42955G	2.444525G	16.392M	2.428779G	2.445171G	500k	1
15.05M	2.4294G	2.44445G	16.492M	2.428704G	2.445196G	500k	2
15.075M	2.429425G	2.4445G	16.342M	2.428804G	2.445146G	500k	3

802.11g_Nss1,(6Mbps)_3TX

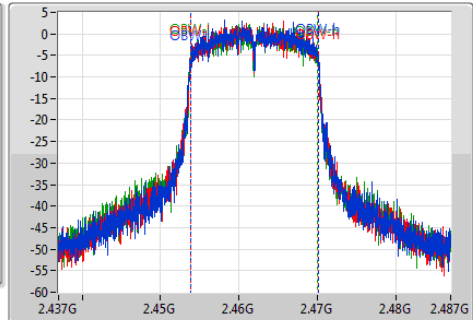
EBW

2462MHz

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



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



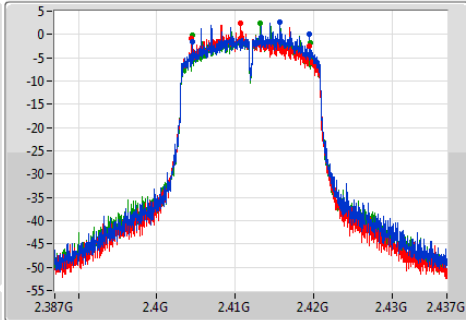
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	2.454475G	2.4695G	16.242M	2.453854G	2.470096G	500k	1
15.025M	2.45445G	2.469475G	16.242M	2.453854G	2.470096G	500k	2
15.4M	2.4541G	2.4695G	16.242M	2.453829G	2.470071G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX

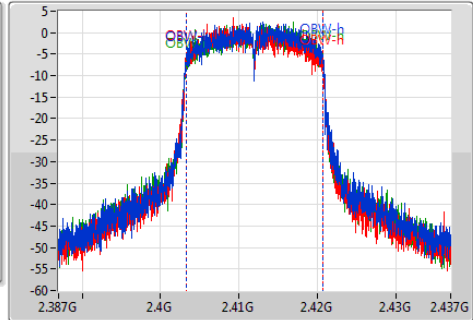
EBW

2412MHz

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



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



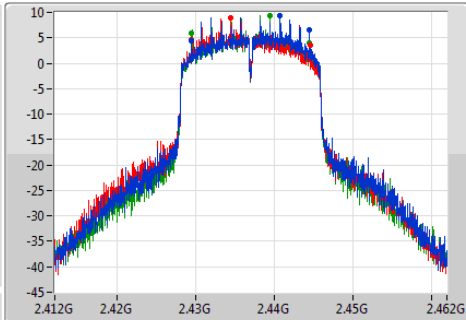
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.975M	2.404525G	2.4195G	17.366M	2.403304G	2.420671G	500k	1
14.95M	2.404475G	2.419425G	17.366M	2.403279G	2.420646G	500k	2
15.025M	2.4045G	2.419525G	17.341M	2.403304G	2.420646G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX

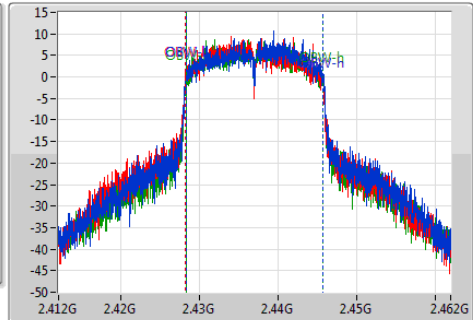
EBW

2437MHz

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



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



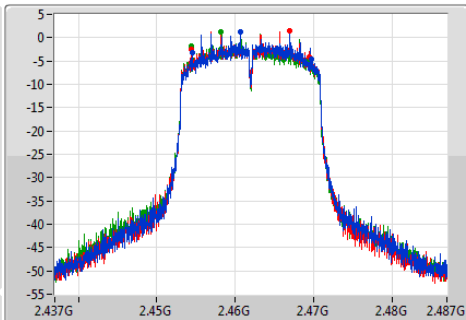
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.429425G	2.4445G	17.466M	2.428254G	2.445721G	500k	1
15.1M	2.42945G	2.44455G	17.466M	2.428204G	2.445671G	500k	2
15.025M	2.42945G	2.444475G	17.416M	2.428254G	2.445671G	500k	3

802.11n HT20_Nss1,(MCS0)_3TX

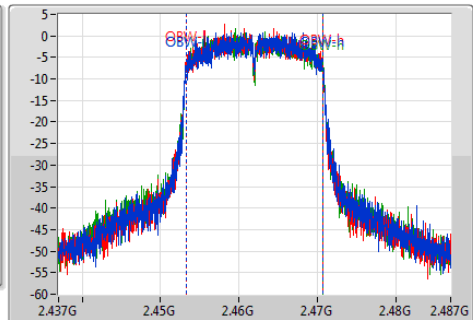
EBW

2462MHz

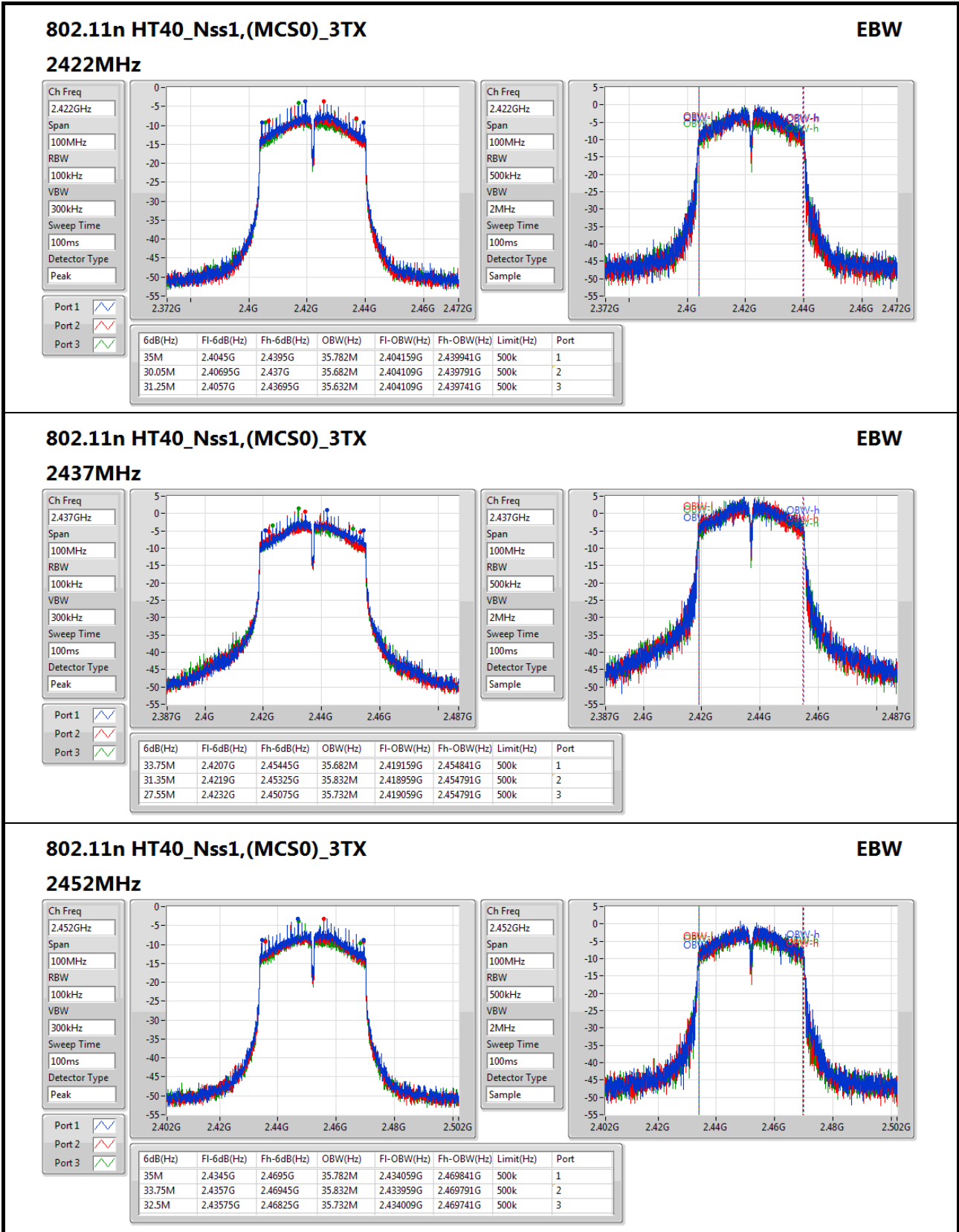
Ch Freq
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.225M	2.4545G	2.469725G	17.366M	2.453279G	2.470646G	500k	1
15.05M	2.454425G	2.469475G	17.391M	2.453254G	2.470646G	500k	2
15.025M	2.454475G	2.4695G	17.416M	2.453254G	2.470671G	500k	3





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_3TX	28.25	0.66834
802.11g_Nss1,(6Mbps)_3TX	25.55	0.35892
802.11n HT20_Nss1,(MCS0)_3TX	24.75	0.29854
802.11n HT40_Nss1,(MCS0)_3TX	18.88	0.07727

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.00	18.47	17.92	18.14	22.95	30.00
2437MHz	Pass	3.00	23.66	23.16	23.60	28.25	30.00
2462MHz	Pass	3.00	18.30	18.21	18.06	22.96	30.00
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.00	14.65	14.28	14.56	19.27	30.00
2437MHz	Pass	3.00	21.03	20.59	20.70	25.55	30.00
2462MHz	Pass	3.00	14.04	14.14	13.94	18.81	30.00
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	3.00	14.35	14.13	14.18	18.99	30.00
2437MHz	Pass	3.00	20.31	19.72	19.87	24.75	30.00
2462MHz	Pass	3.00	13.12	13.23	13.25	17.97	30.00
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	3.00	10.26	9.49	9.34	14.49	30.00
2437MHz	Pass	3.00	14.43	14.05	13.82	18.88	30.00
2452MHz	Pass	3.00	10.27	9.72	9.24	14.53	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_3TX	4.61
802.11g_Nss1,(6Mbps)_3TX	-1.18
802.11n HT20_Nss1,(MCS0)_3TX	-2.34
802.11n HT40_Nss1,(MCS0)_3TX	-10.86

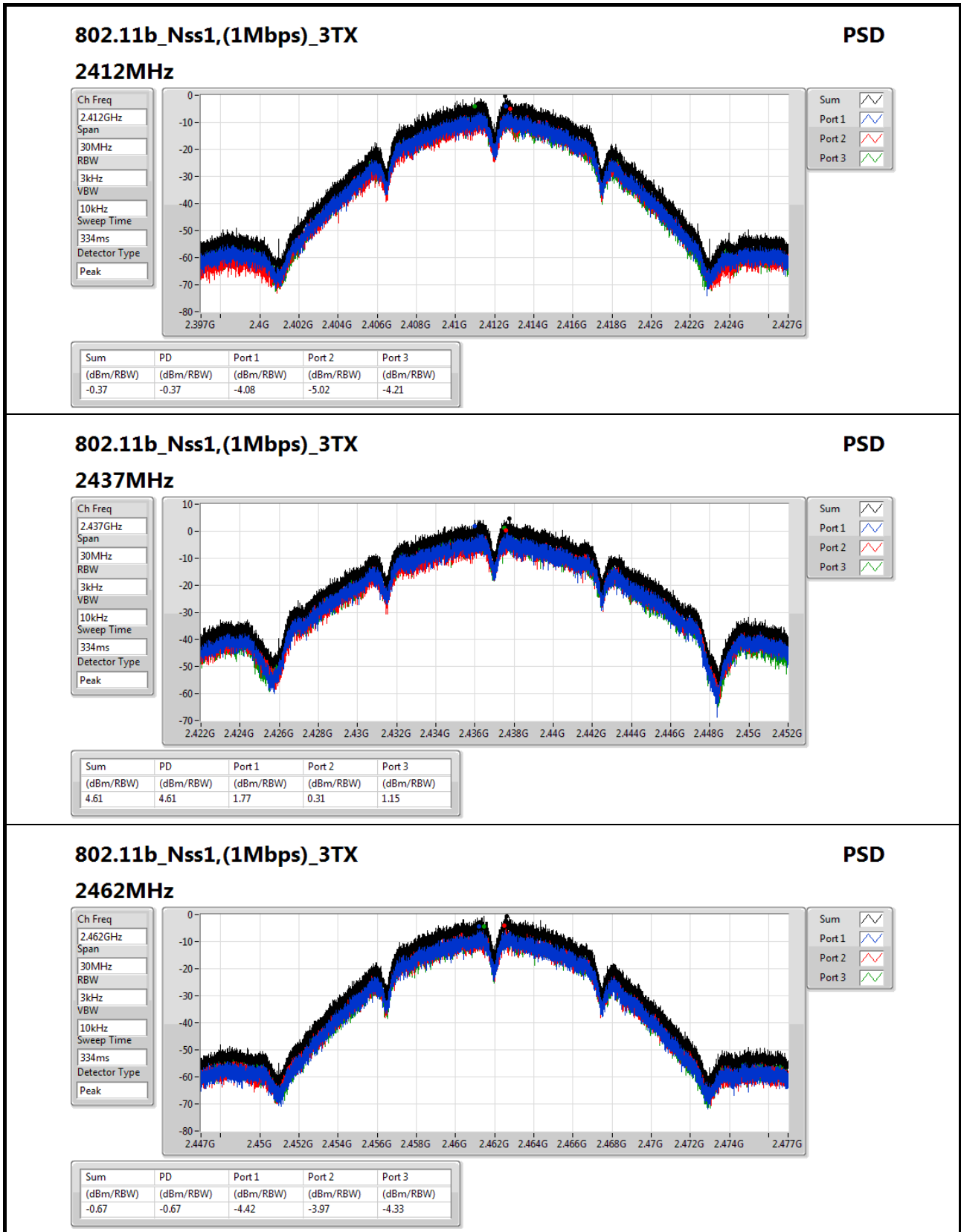
RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-4.08	-5.02	-4.21	-0.37	6.23
2437MHz	Pass	7.77	1.77	0.31	1.15	4.61	6.23
2462MHz	Pass	7.77	-4.42	-3.97	-4.33	-0.67	6.23
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-10.33	-11.15	-10.29	-8.85	6.23
2437MHz	Pass	7.77	-3.59	-4.54	-4.29	-1.18	6.23
2462MHz	Pass	7.77	-11.18	-11.29	-11.84	-7.74	6.23
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2412MHz	Pass	7.77	-10.59	-11.50	-11.55	-8.43	6.23
2437MHz	Pass	7.77	-5.30	-5.68	-6.58	-2.34	6.23
2462MHz	Pass	7.77	-11.81	-12.54	-11.65	-8.92	6.23
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-
2422MHz	Pass	7.77	-18.40	-17.81	-17.78	-14.40	6.23
2437MHz	Pass	7.77	-12.70	-13.80	-12.52	-10.86	6.23
2452MHz	Pass	7.77	-17.10	-18.09	-17.86	-13.98	6.23

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_Nss1,(1Mbps)_3TX
PSD

2462MHz

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

Detector Type
Peak



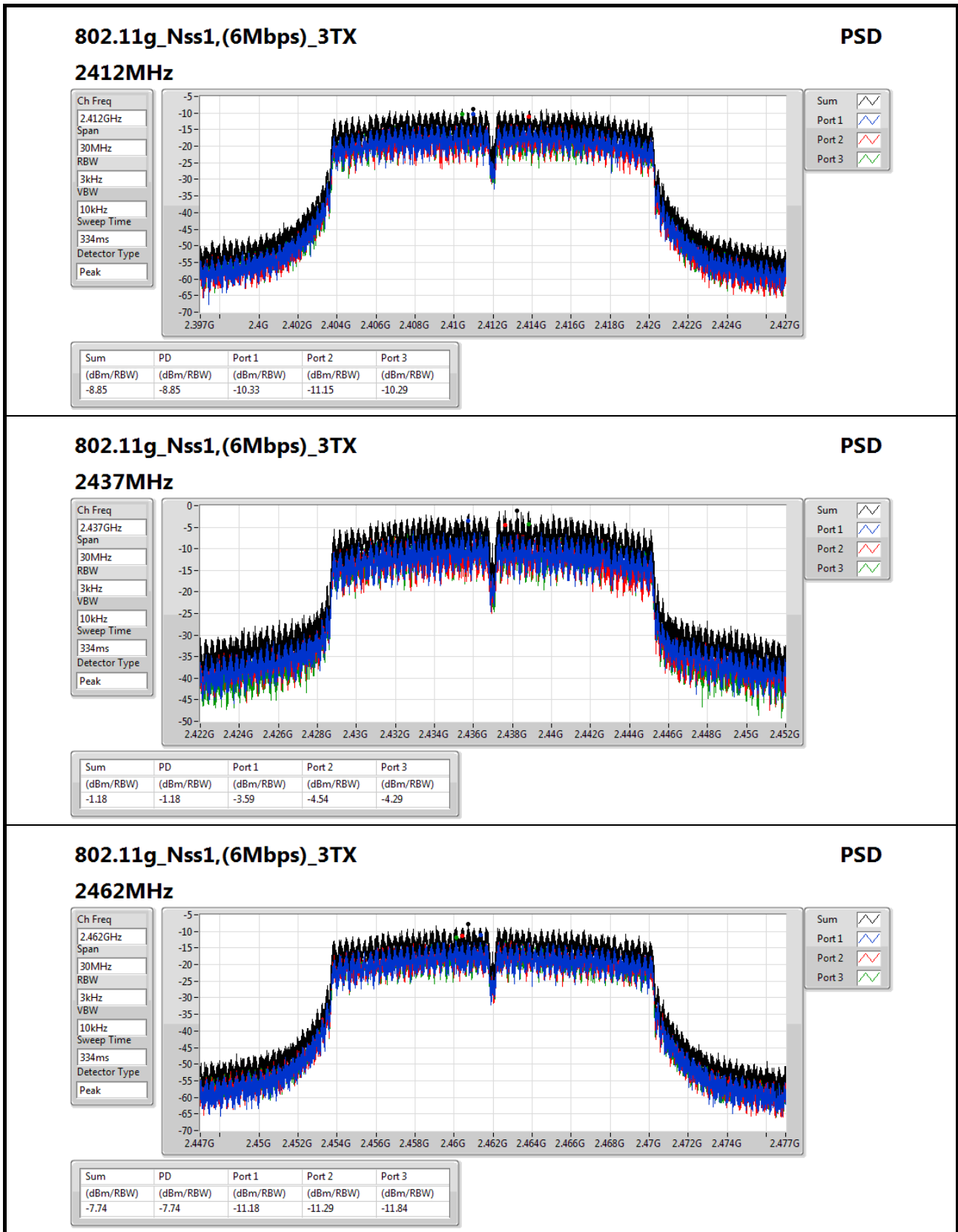
Sum

Port 1

Port 2

Port 3

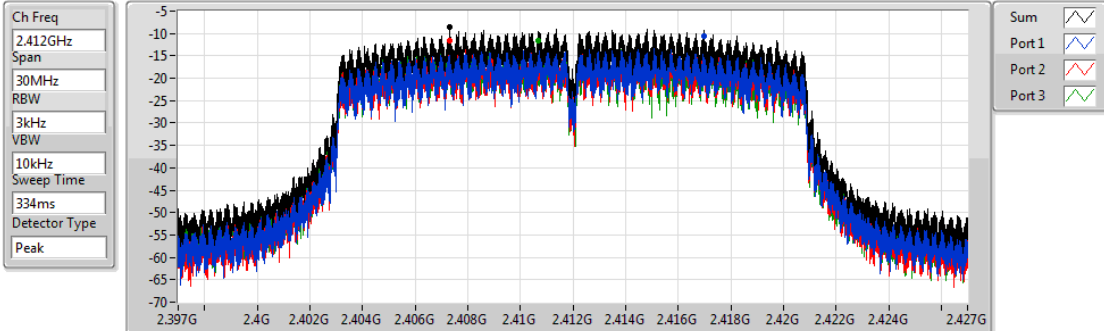
Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.67	-0.67	-4.42	-3.97	-4.33



802.11n HT20_Nss1,(MCS0)_3TX

PSD

2412MHz

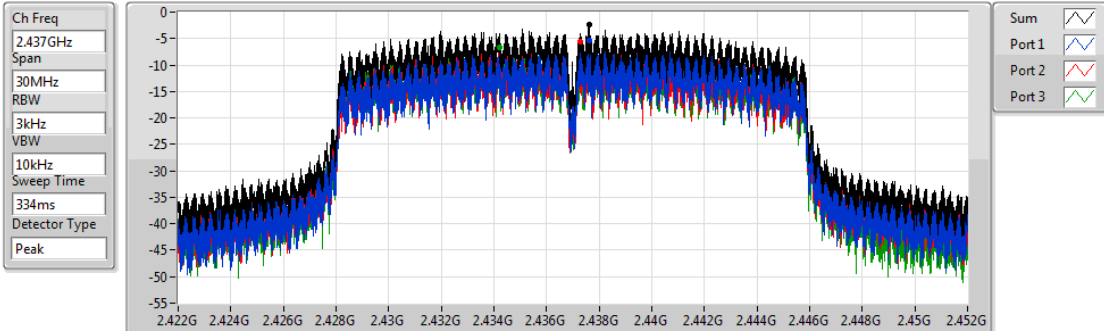


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.43	-8.43	-10.59	-11.50	-11.55

802.11n HT20_Nss1,(MCS0)_3TX

PSD

2437MHz

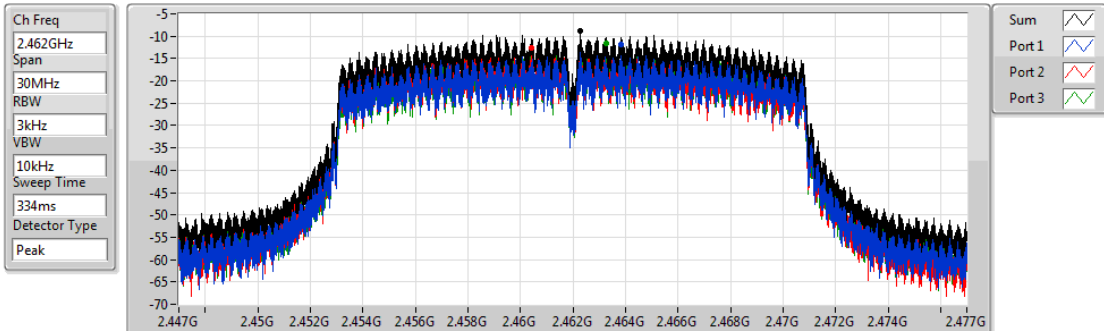


Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.34	-2.34	-5.30	-5.68	-6.58

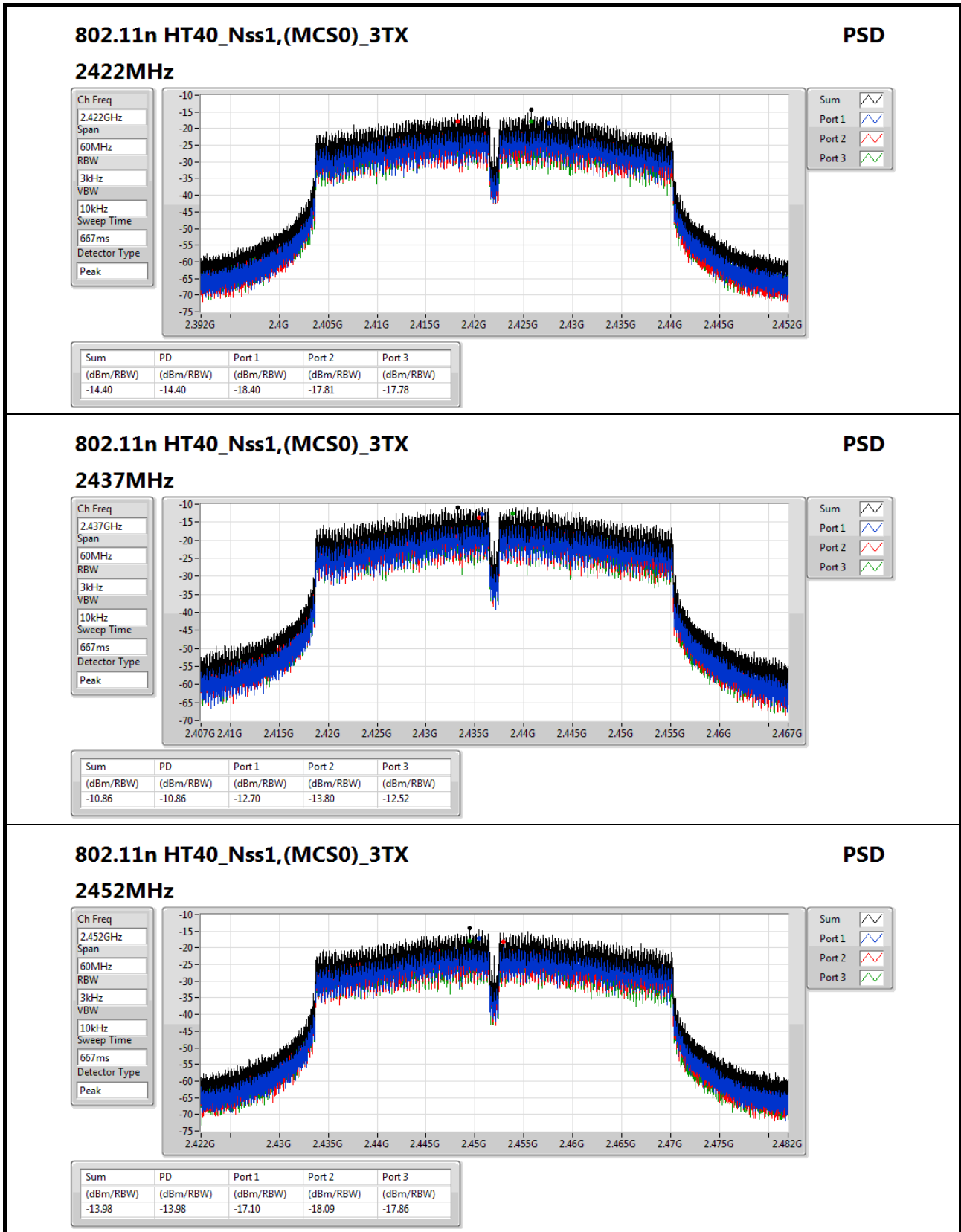
802.11n HT20_Nss1,(MCS0)_3TX

PSD

2462MHz



Sum	PD	Port 1	Port 2	Port 3
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.92	-8.92	-11.81	-12.54	-11.65





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_3TX	Pass	2.436406G	14.76	-15.24	649.78M	-41.78	2.39904G	-39.35	2.4899G	-39.55	7.235136G	-37.58	1
802.11g_Nss1,(6Mbps)_3TX	Pass	2.439412G	9.26	-20.74	2.305245G	-57.64	2.39912G	-33.99	2.48598G	-55.27	7.232327G	-48.58	3
802.11n HT20_Nss1,(MCS0)_3TX	Pass	2.435738G	9.52	-20.48	1.96856G	-58.75	2.3996G	-32.64	2.49998G	-53.89	7.240755G	-47.36	3
802.11n HT40_Nss1,(MCS0)_3TX	Pass	2.431897G	1.01	-28.99	2.309695G	-59.34	2.39984G	-39.38	2.49998G	-55.54	16.432062G	-51.77	3

Result

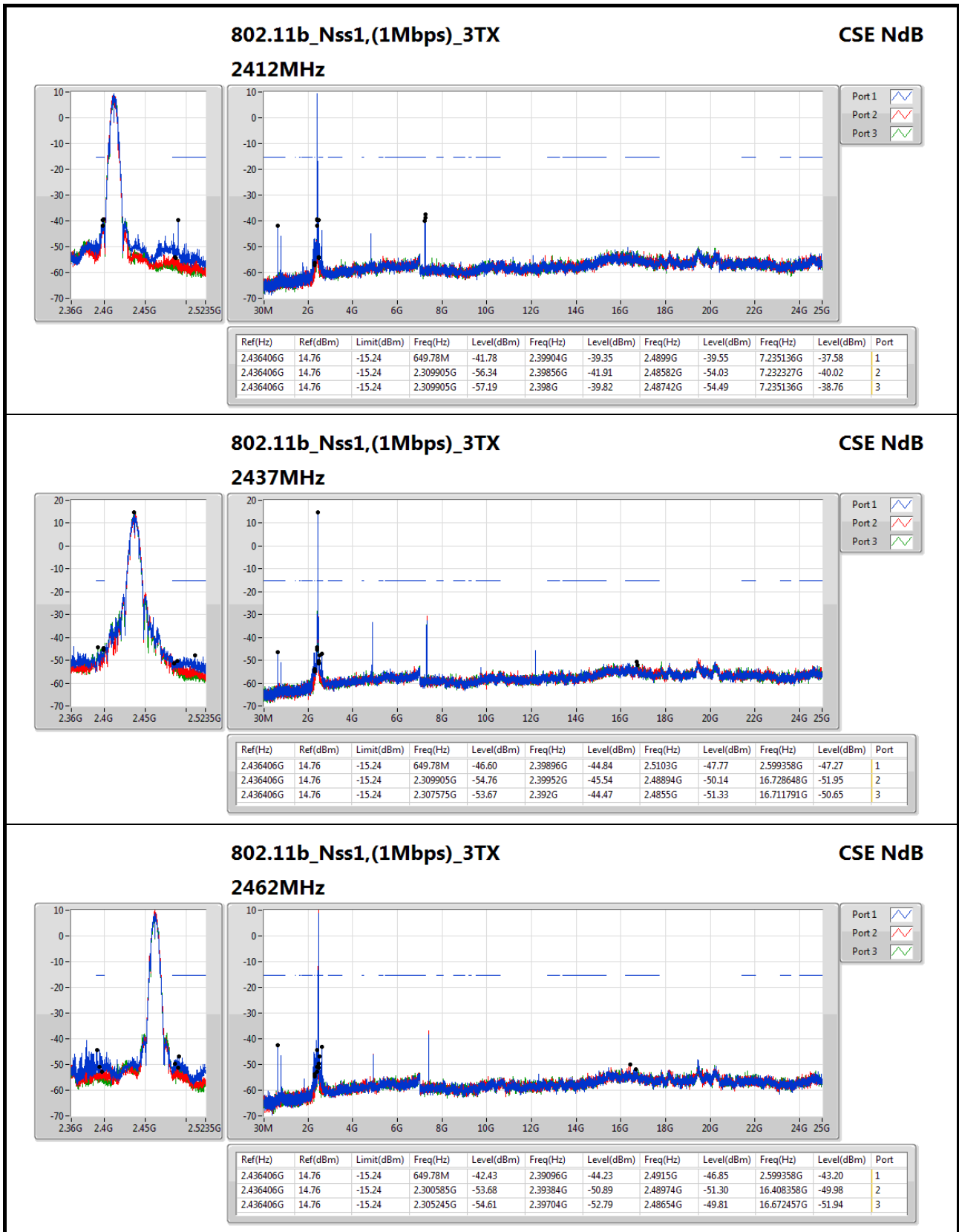
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.436406G	14.76	-15.24	649.78M	-41.78	2.39904G	-39.35	2.4899G	-39.55	7.235136G	-37.58	1
2412MHz	Pass	2.436406G	14.76	-15.24	2.309905G	-56.34	2.39856G	-41.91	2.48582G	-54.03	7.232327G	-40.02	2
2412MHz	Pass	2.436406G	14.76	-15.24	2.309905G	-57.19	2.398G	-39.82	2.48742G	-54.49	7.235136G	-38.76	3
2437MHz	Pass	2.436406G	14.76	-15.24	649.78M	-46.60	2.39896G	-44.84	2.5103G	-47.77	2.599358G	-47.27	1
2437MHz	Pass	2.436406G	14.76	-15.24	2.309905G	-54.76	2.39952G	-45.54	2.48894G	-50.14	16.728648G	-51.95	2
2437MHz	Pass	2.436406G	14.76	-15.24	2.307575G	-53.67	2.392G	-44.47	2.4855G	-51.33	16.711791G	-50.65	3
2462MHz	Pass	2.436406G	14.76	-15.24	649.78M	-42.43	2.39096G	-44.23	2.4915G	-46.85	2.599358G	-43.20	1
2462MHz	Pass	2.436406G	14.76	-15.24	2.300585G	-53.68	2.39384G	-50.89	2.48974G	-51.30	16.408358G	-49.98	2
2462MHz	Pass	2.436406G	14.76	-15.24	2.305245G	-54.61	2.39704G	-52.79	2.48654G	-49.81	16.672457G	-51.94	3
802.11g_Nss1,(6Mbps)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.439412G	9.26	-20.74	649.78M	-40.98	2.39952G	-34.25	2.50182G	-48.94	2.599358G	-44.06	1
2412MHz	Pass	2.439412G	9.26	-20.74	2.307575G	-58.37	2.39992G	-35.21	2.48558G	-52.23	7.235136G	-46.73	2
2412MHz	Pass	2.439412G	9.26	-20.74	2.305245G	-57.64	2.39912G	-33.99	2.48598G	-55.27	7.232327G	-48.58	3
2437MHz	Pass	2.439412G	9.26	-20.74	649.78M	-43.09	2.39888G	-40.94	2.4863G	-44.16	2.599358G	-44.82	1
2437MHz	Pass	2.439412G	9.26	-20.74	2.30874G	-51.72	2.39888G	-42.67	2.49566G	-44.85	24.511136G	-51.54	2
2437MHz	Pass	2.439412G	9.26	-20.74	2.309905G	-54.87	2.39952G	-41.18	2.48542G	-45.30	6.95699G	-51.71	3
2462MHz	Pass	2.439412G	9.26	-20.74	649.78M	-41.27	2.39136G	-50.40	2.4879G	-46.02	2.599358G	-43.26	1
2462MHz	Pass	2.439412G	9.26	-20.74	2.305245G	-57.59	2.39248G	-53.12	2.49038G	-47.72	16.326881G	-51.23	2
2462MHz	Pass	2.439412G	9.26	-20.74	2.305245G	-57.69	2.39768G	-54.22	2.4843G	-47.30	16.3325G	-51.72	3
802.11n HT20_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	9.52	-20.48	649.78M	-41.22	2.39952G	-35.73	2.50382G	-49.37	2.599358G	-43.93	1
2412MHz	Pass	2.435738G	9.52	-20.48	774.435M	-57.80	2.39976G	-34.31	2.48718G	-53.56	7.232327G	-47.47	2
2412MHz	Pass	2.435738G	9.52	-20.48	1.96856G	-58.75	2.3996G	-32.64	2.49998G	-53.89	7.240755G	-47.36	3
2437MHz	Pass	2.435738G	9.52	-20.48	649.78M	-42.44	2.3992G	-43.15	2.48966G	-45.50	2.599358G	-44.53	1
2437MHz	Pass	2.435738G	9.52	-20.48	2.30408G	-53.54	2.39888G	-44.90	2.48406G	-44.76	16.416787G	-52.16	2
2437MHz	Pass	2.435738G	9.52	-20.48	2.307575G	-54.32	2.39976G	-41.97	2.48414G	-47.56	16.236975G	-51.49	3
2462MHz	Pass	2.435738G	9.52	-20.48	649.78M	-40.90	2.3912G	-51.27	2.48526G	-45.65	2.599358G	-45.56	1
2462MHz	Pass	2.435738G	9.52	-20.48	2.30175G	-57.89	2.39912G	-53.11	2.4879G	-46.30	6.993514G	-50.95	2
2462MHz	Pass	2.435738G	9.52	-20.48	2.309905G	-57.34	2.39584G	-54.32	2.48422G	-48.60	16.380262G	-51.69	3
802.11n HT40_Nss1,(MCS0)_3TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.431897G	1.01	-28.99	649.445M	-40.67	2.39968G	-39.85	2.49998G	-53.70	2.599959G	-43.01	1
2422MHz	Pass	2.431897G	1.01	-28.99	649.445M	-57.51	2.39952G	-40.26	2.50286G	-56.89	15.237318G	-52.05	2
2422MHz	Pass	2.431897G	1.01	-28.99	2.309695G	-59.34	2.39984G	-39.38	2.49998G	-55.54	16.432062G	-51.77	3
2437MHz	Pass	2.431897G	1.01	-28.99	649.445M	-40.50	2.39952G	-42.07	2.4859G	-49.79	2.599959G	-43.06	1
2437MHz	Pass	2.431897G	1.01	-28.99	2.30626G	-56.41	2.39952G	-41.47	2.49854G	-53.42	15.220491G	-51.96	2
2437MHz	Pass	2.431897G	1.01	-28.99	2.30855G	-56.44	2.39824G	-43.42	2.48382G	-52.48	16.7013G	-51.59	3
2452MHz	Pass	2.431897G	1.01	-28.99	649.445M	-40.26	2.39312G	-53.23	2.48574G	-49.81	2.599959G	-42.96	1
2452MHz	Pass	2.431897G	1.01	-28.99	649.445M	-57.14	2.39072G	-54.75	2.48622G	-51.08	16.342316G	-51.24	2



CSE Non-restricted Band Result

Appendix E

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2452MHz	Pass	2.431897G	1.01	-28.99	2.300535G	-58.50	2.39248G	-54.41	2.48446G	-48.92	16.718127G	-51.62	3

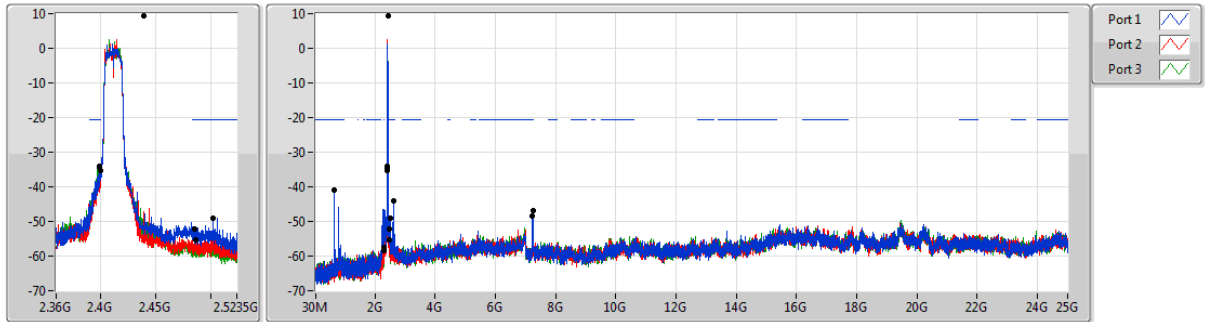




802.11g_Nss1,(6Mbps)_3TX

CSE NdB

2412MHz

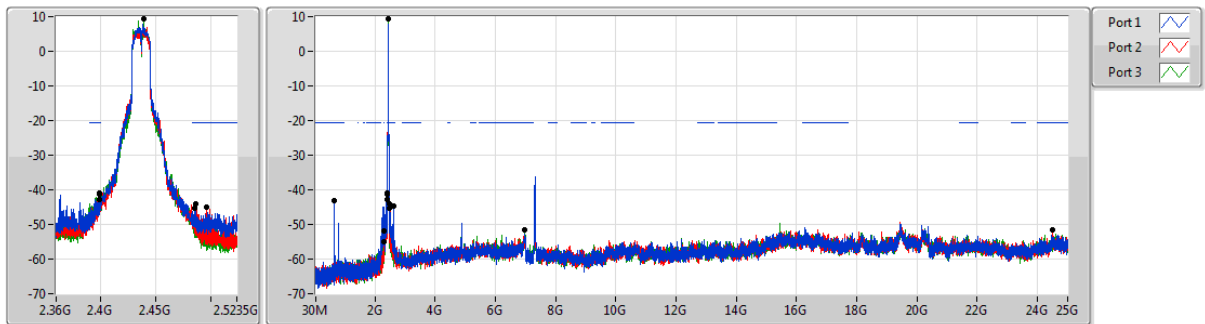


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	9.26	-20.74	649.78M	-40.98	2.39952G	-34.25	2.50182G	-48.94	2.599358G	-44.06	1
2.439412G	9.26	-20.74	2.307575G	-58.37	2.39992G	-35.21	2.48558G	-52.23	7.235136G	-46.73	2
2.439412G	9.26	-20.74	2.305245G	-57.64	2.39912G	-33.99	2.48598G	-55.27	7.232327G	-48.58	3

802.11g_Nss1,(6Mbps)_3TX

CSE NdB

2437MHz

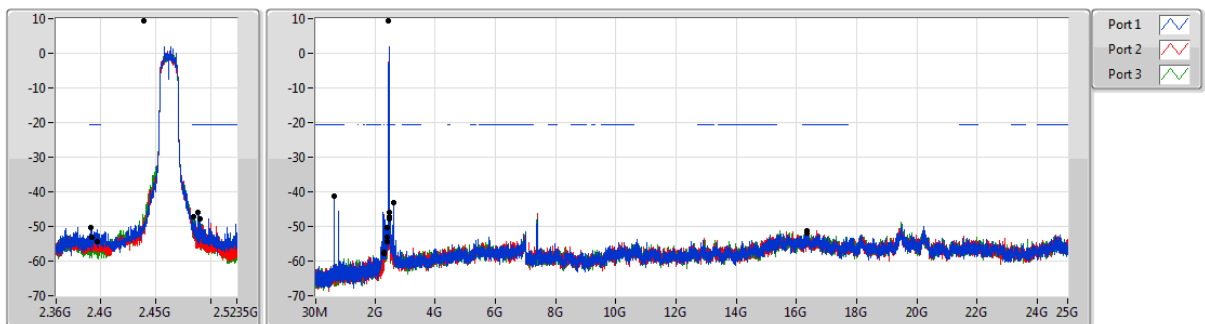


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	9.26	-20.74	649.78M	-43.09	2.39888G	-40.94	2.4863G	-44.16	2.599358G	-44.82	1
2.439412G	9.26	-20.74	2.30874G	-51.72	2.39888G	-42.67	2.49566G	-44.85	24.511136G	-51.54	2
2.439412G	9.26	-20.74	2.309905G	-54.87	2.39952G	-41.18	2.48542G	-45.30	6.95699G	-51.71	3

802.11g_Nss1,(6Mbps)_3TX

CSE NdB

2462MHz

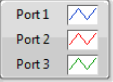
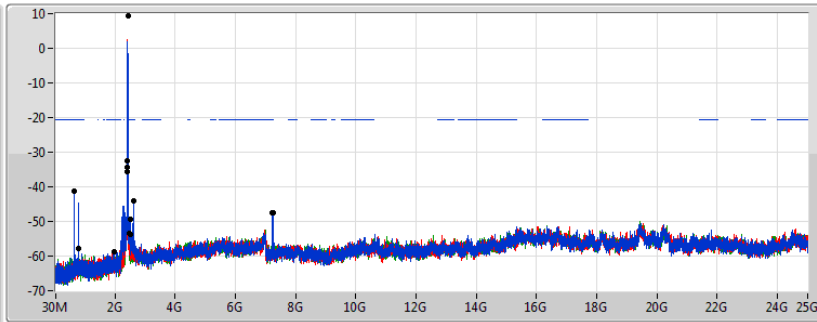
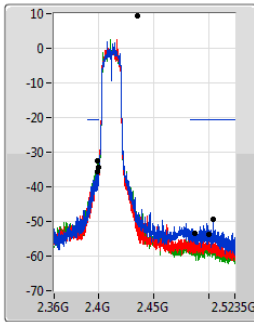


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	9.26	-20.74	649.78M	-41.27	2.39136G	-50.40	2.4879G	-46.02	2.599358G	-43.26	1
2.439412G	9.26	-20.74	2.305245G	-57.59	2.39248G	-53.12	2.49038G	-47.72	16.326881G	-51.23	2
2.439412G	9.26	-20.74	2.305245G	-57.69	2.39768G	-54.22	2.4843G	-47.30	16.3325G	-51.72	3

802.11n HT20_Nss1,(MCS0)_3TX

CSE NdB

2412MHz

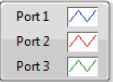
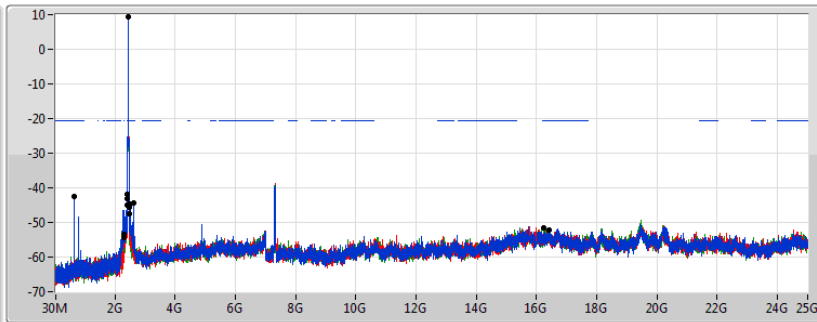
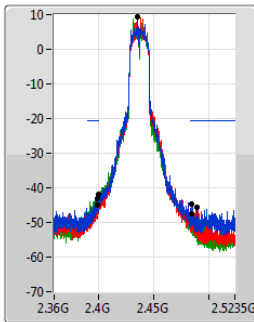


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	9.52	-20.48	649.78M	-41.22	2.39952G	-35.73	2.50382G	-49.37	2.599358G	-43.93	1
2.435738G	9.52	-20.48	774.435M	-57.80	2.39976G	-34.31	2.48718G	-53.56	7.232327G	-47.47	2
2.435738G	9.52	-20.48	1.96856G	-58.75	2.3996G	-32.64	2.49998G	-53.89	7.240755G	-47.36	3

802.11n HT20_Nss1,(MCS0)_3TX

CSE NdB

2437MHz

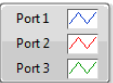
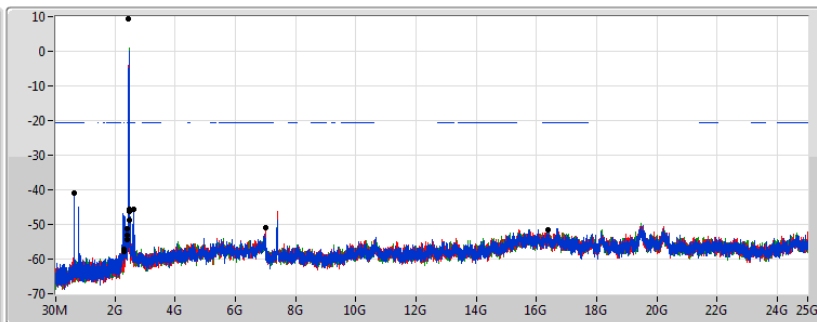
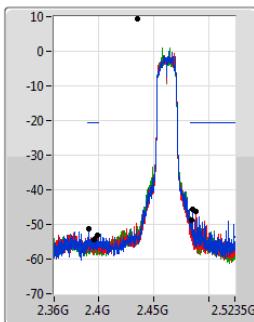


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	9.52	-20.48	649.78M	-42.44	2.3992G	-43.15	2.48966G	-45.50	2.599358G	-44.53	1
2.435738G	9.52	-20.48	2.30408G	-53.54	2.39888G	-44.90	2.48406G	-44.76	16.416787G	-52.16	2
2.435738G	9.52	-20.48	2.307575G	-54.32	2.39976G	-41.97	2.48414G	-47.56	16.236975G	-51.49	3

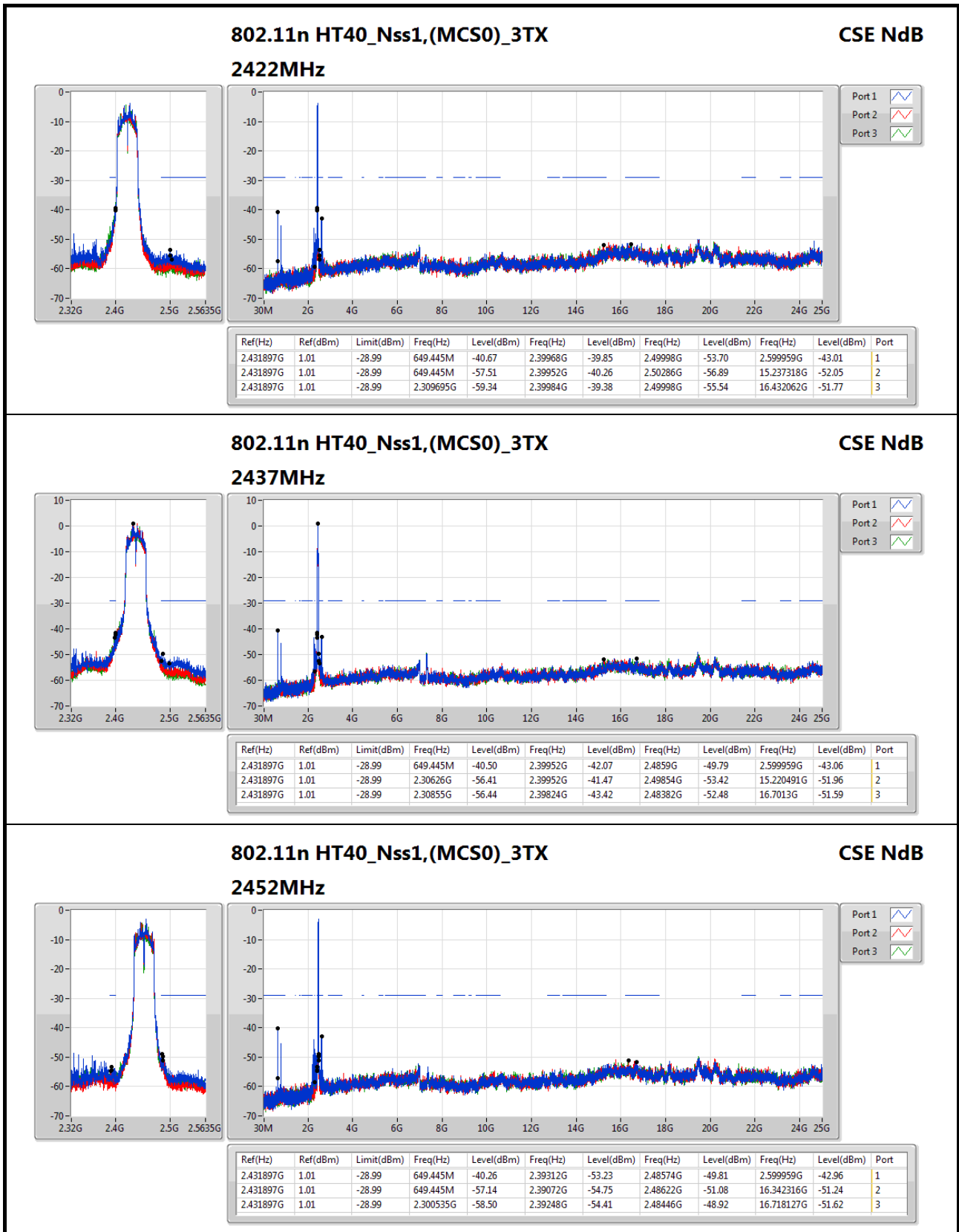
802.11n HT20_Nss1,(MCS0)_3TX

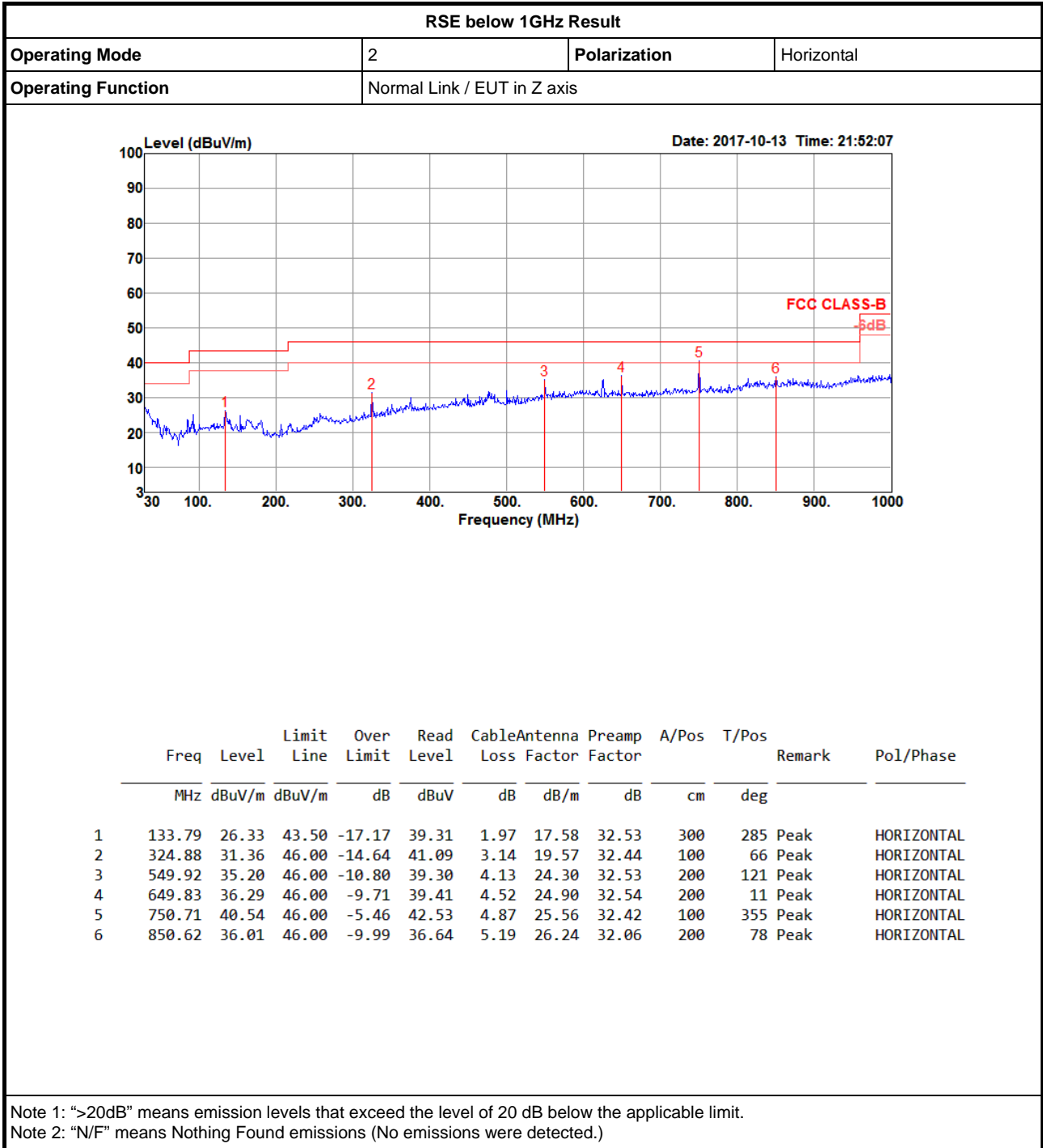
CSE NdB

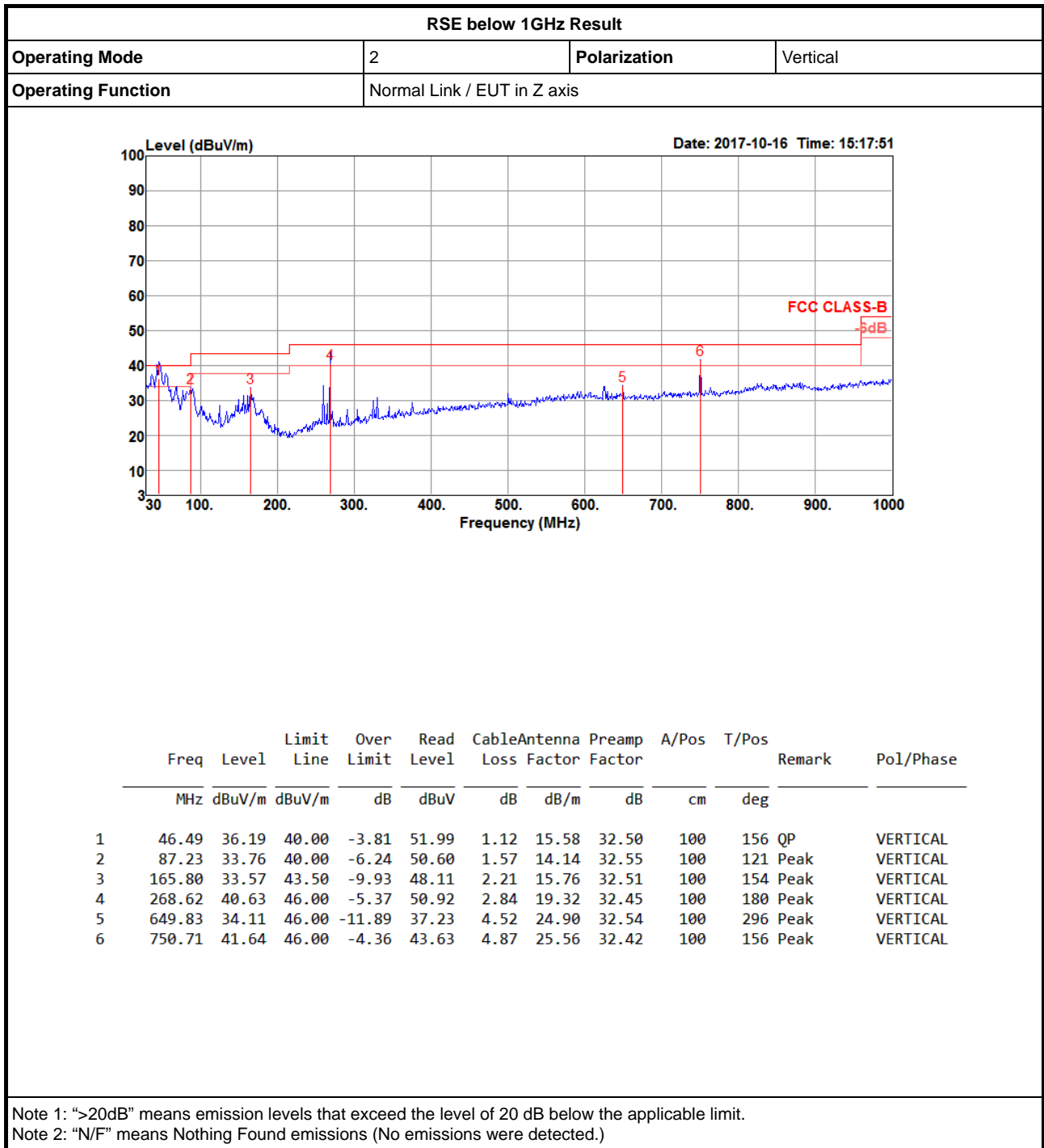
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	9.52	-20.48	649.78M	-40.90	2.3912G	-51.27	2.48526G	-45.65	2.599358G	-45.56	1
2.435738G	9.52	-20.48	2.30175G	-57.89	2.39912G	-53.11	2.4879G	-46.30	6.993514G	-50.95	2
2.435738G	9.52	-20.48	2.309905G	-57.34	2.39584G	-54.32	2.48422G	-48.60	16.380262G	-51.69	3







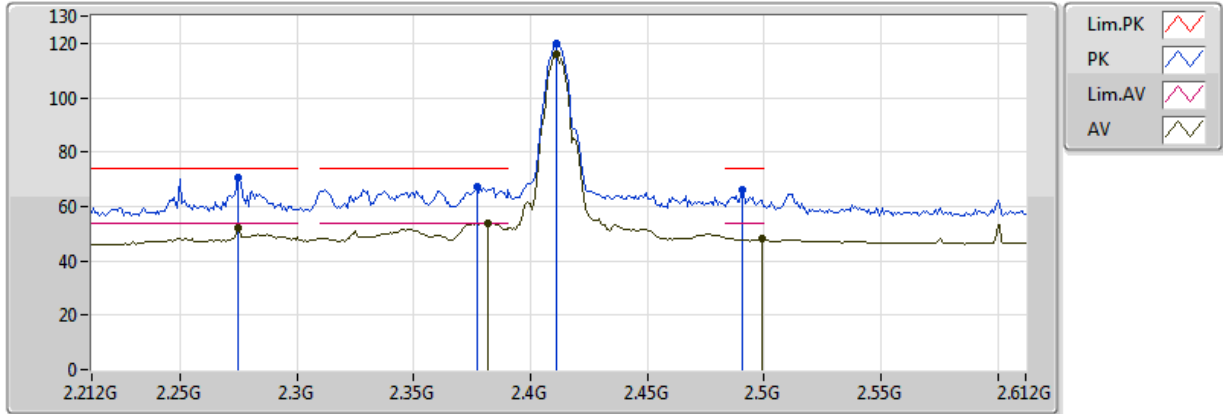


Summary

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)_3TX	Pass	AV	2.4836G	53.98	54.00	-0.02	32.32	3	Vertical	0	2.22	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

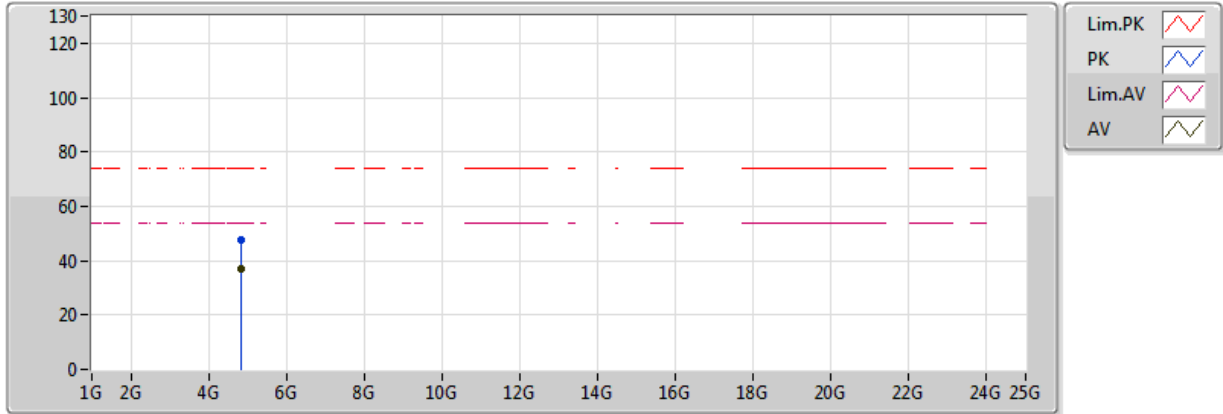


20171023
 EUT Y_3TX_Dipole
 Setting 17
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2744G	52.20	54.00	-1.80	33.20	3	Vertical	176	1.50	-
AV	2.3816G	53.89	54.00	-0.11	33.15	3	Vertical	176	1.50	-
AV	2.4112G	116.24	Inf	-Inf	33.15	3	Vertical	176	1.50	-
AV	2.4992G	48.25	54.00	-5.75	33.20	3	Vertical	176	1.50	-
PK	2.2744G	70.66	74.00	-3.34	33.20	3	Vertical	176	1.50	-
PK	2.3768G	67.14	74.00	-6.86	33.15	3	Vertical	176	1.50	-
PK	2.4112G	120.12	Inf	-Inf	33.15	3	Vertical	176	1.50	-
PK	2.4904G	66.34	74.00	-7.66	33.19	3	Vertical	176	1.50	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

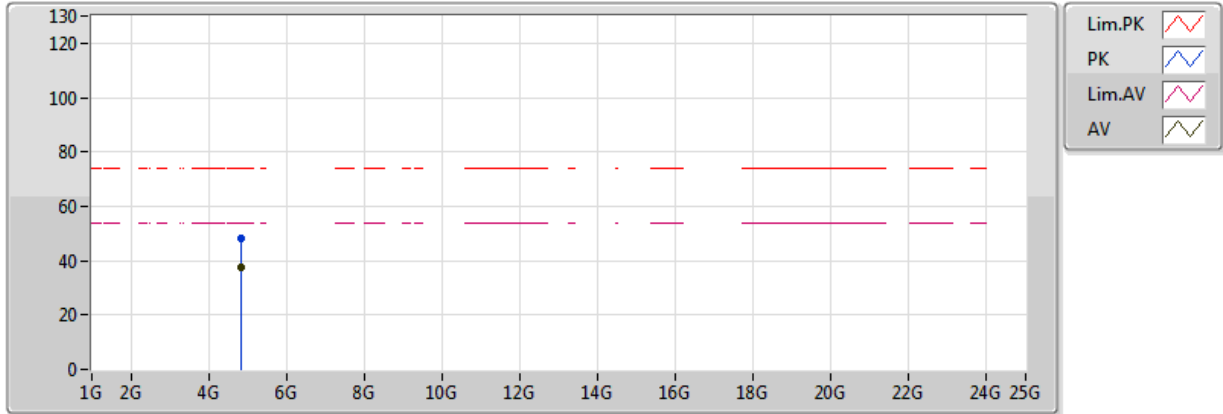


20171023
 EUT Y_3TX_Dipole
 Setting 17
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.823994G	36.77	54.00	-17.23	4.18	3	Vertical	196	1.01	-
PK	4.823846G	47.66	74.00	-26.34	4.18	3	Vertical	196	1.01	-

802.11b_Nss1,(1Mbps)_3TX

2412MHz_TX

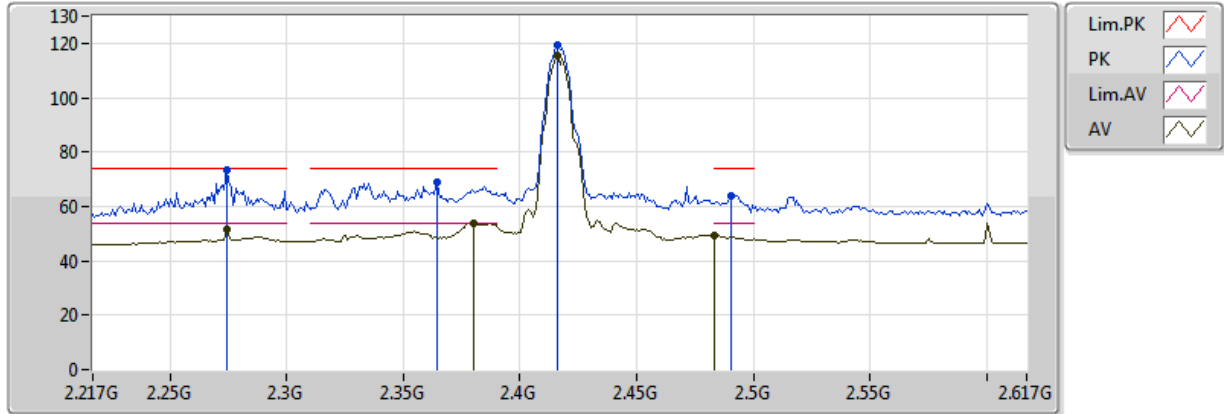


20171023
 EUT Y_3TX_Dipole
 Setting 17
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82398G	37.51	54.00	-16.49	4.18	3	Horizontal	125	2.99	-
PK	4.824062G	48.44	74.00	-25.56	4.18	3	Horizontal	125	2.99	-

802.11b_Nss1,(1Mbps)_3TX

2417MHz_TX

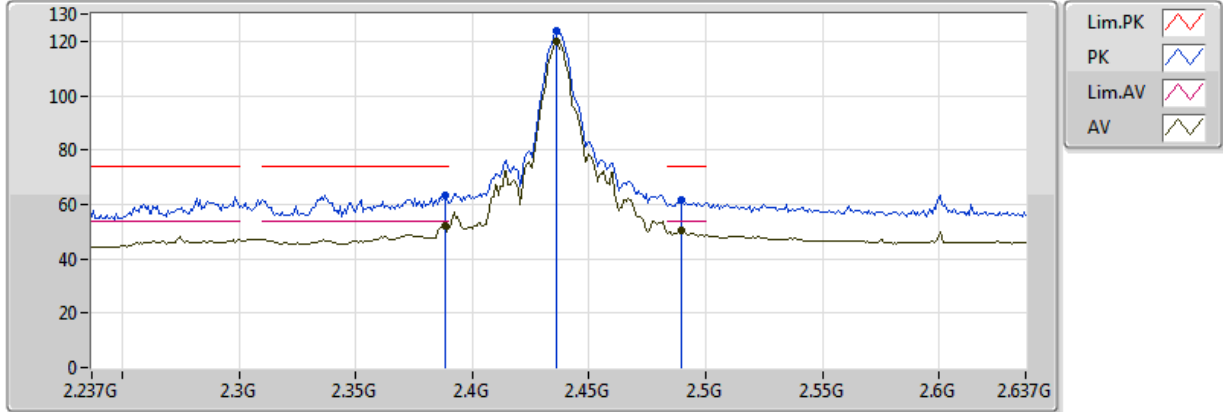


20171023
 EUT Y_3TX_Dipole
 Setting 15.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2746G	51.46	54.00	-2.54	33.20	3	Vertical	356	1.62	-
AV	2.3802G	53.88	54.00	-0.12	33.15	3	Vertical	356	1.62	-
AV	2.4162G	115.50	Inf	-Inf	33.15	3	Vertical	356	1.62	-
AV	2.483502G	49.35	54.00	-4.65	33.19	3	Vertical	356	1.62	-
PK	2.2746G	73.67	74.00	-0.33	33.20	3	Vertical	356	1.62	-
PK	2.3642G	68.74	74.00	-5.26	33.16	3	Vertical	356	1.62	-
PK	2.4162G	119.31	Inf	-Inf	33.15	3	Vertical	356	1.62	-
PK	2.4906G	64.08	74.00	-9.92	33.19	3	Vertical	356	1.62	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX



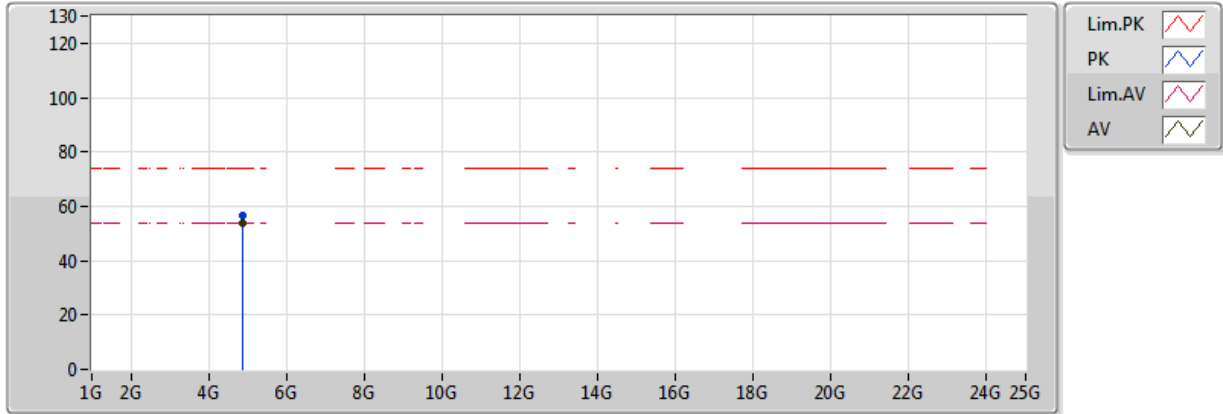
20171024
 EUT Y_3TX_Dipole
 Setting 25
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3882G	52.15	54.00	-1.85	31.90	3	Vertical	359	1.63	-
AV	2.4362G	119.93	Inf	-Inf	32.11	3	Vertical	359	1.63	-
AV	2.4898G	50.16	54.00	-3.84	32.35	3	Vertical	359	1.63	-
PK	2.3882G	63.41	74.00	-10.59	31.90	3	Vertical	359	1.63	-
PK	2.4362G	123.65	Inf	-Inf	32.11	3	Vertical	359	1.63	-
PK	2.4898G	61.59	74.00	-12.41	32.35	3	Vertical	359	1.63	-



802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

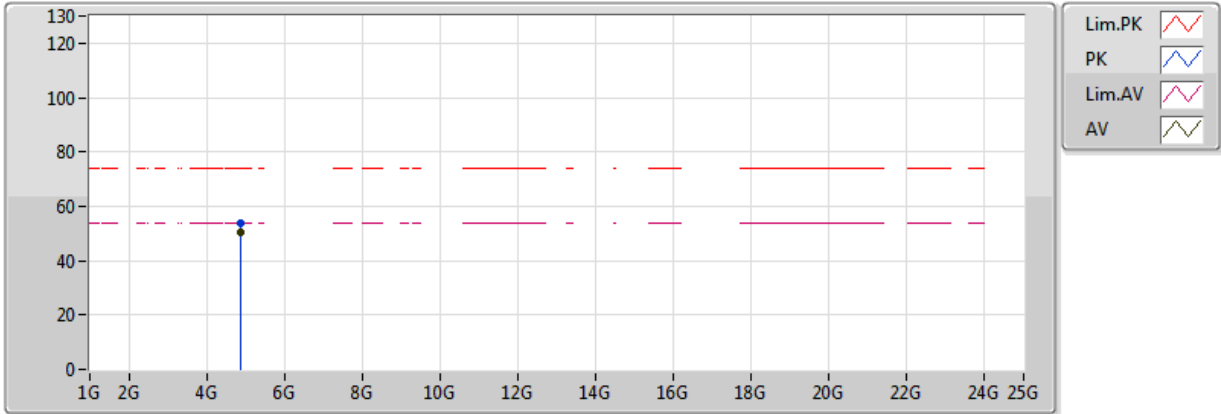


20171024
 EUT Y_3TX_Dipole
 Setting 25
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.873956G	53.94	54.00	-0.06	2.54	3	Vertical	185	1.25	-
PK	4.873944G	56.85	74.00	-17.15	2.54	3	Vertical	185	1.25	-

802.11b_Nss1,(1Mbps)_3TX

2437MHz_TX

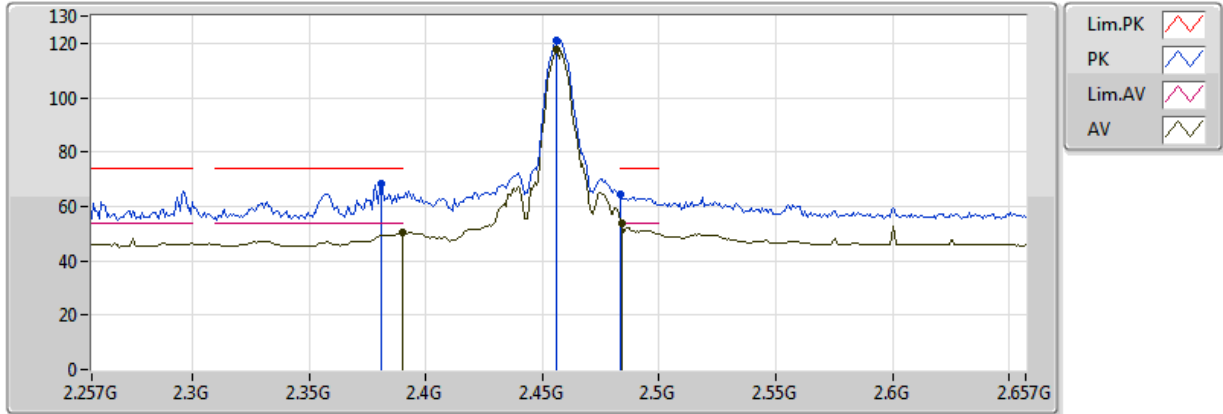


20171024
 EUT Y_3TX_Dipole
 Setting 25
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.873932G	50.27	54.00	-3.73	2.54	3	Horizontal	136	2.99	-
PK	4.873896G	53.70	74.00	-20.30	2.54	3	Horizontal	136	2.99	-

802.11b_Nss1,(1Mbps)_3TX

2457MHz_TX

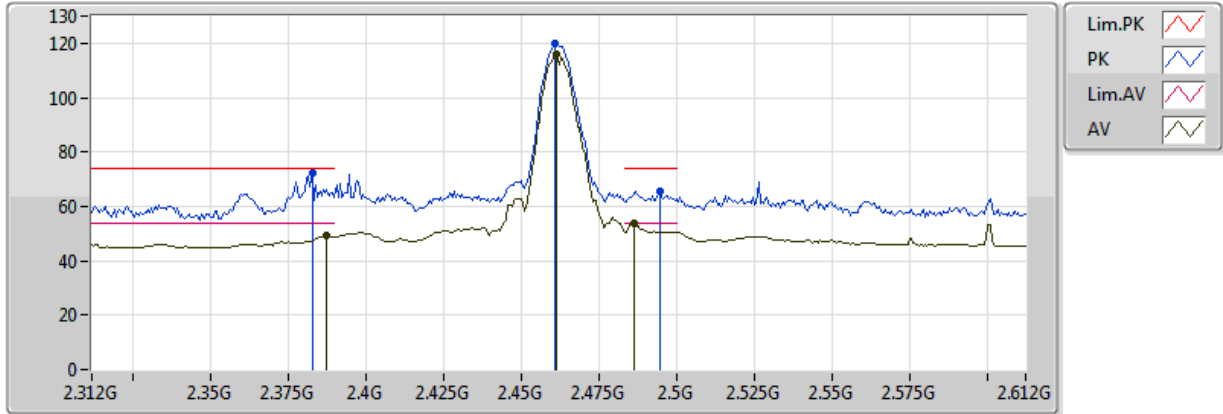


20171024
 EUT Y_3TX_Dipole
 Setting 21
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	50.17	54.00	-3.83	31.90	3	Vertical	185	1.82	-
AV	2.4562G	117.61	Inf	-Inf	32.20	3	Vertical	185	1.82	-
AV	2.4842G	53.80	54.00	-0.20	32.33	3	Vertical	185	1.82	-
PK	2.381G	68.57	74.00	-5.43	31.87	3	Vertical	185	1.82	-
PK	2.4562G	121.19	Inf	-Inf	32.20	3	Vertical	185	1.82	-
PK	2.483502G	64.60	74.00	-9.40	32.32	3	Vertical	185	1.82	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

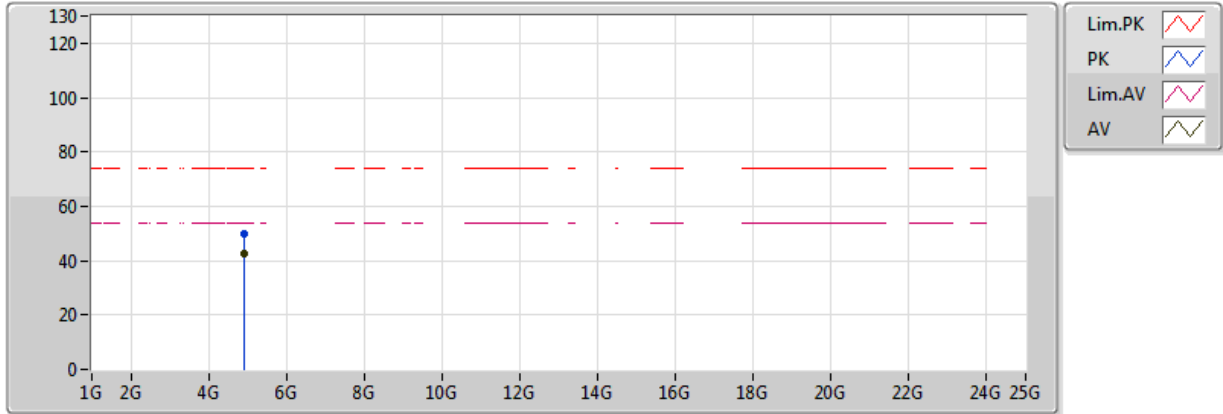


20171024
 EUT Y_3TX_Dipole
 Setting 17.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3876G	49.10	54.00	-4.90	31.89	3	Vertical	0	2.18	-
AV	2.4614G	115.89	Inf	-Inf	32.22	3	Vertical	0	2.18	-
AV	2.486G	53.94	54.00	-0.06	32.34	3	Vertical	0	2.18	-
PK	2.3828G	72.09	74.00	-1.91	31.87	3	Vertical	0	2.18	-
PK	2.4608G	119.74	Inf	-Inf	32.22	3	Vertical	0	2.18	-
PK	2.4944G	65.51	74.00	-8.49	32.37	3	Vertical	0	2.18	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

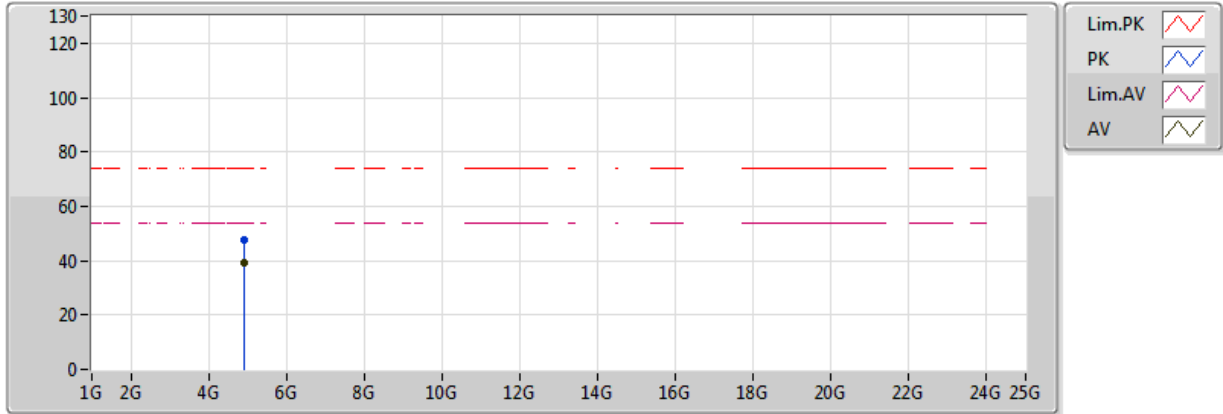


20171024
 EUT Y_3TX_Dipole
 Setting 17.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.923944G	42.59	54.00	-11.41	2.69	3	Vertical	169	1.37	-
PK	4.92385G	49.93	74.00	-24.07	2.69	3	Vertical	169	1.37	-

802.11b_Nss1,(1Mbps)_3TX

2462MHz_TX

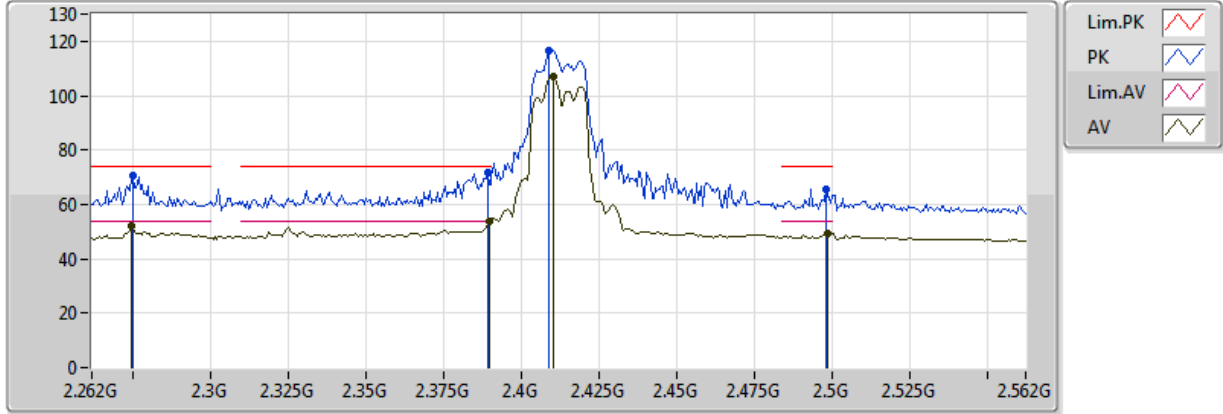


20171024
 EUT Y_3TX_Dipole
 Setting 17.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.923942G	39.30	54.00	-14.70	2.69	3	Horizontal	140	2.97	-
PK	4.923764G	47.86	74.00	-26.14	2.69	3	Horizontal	140	2.97	-

802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX



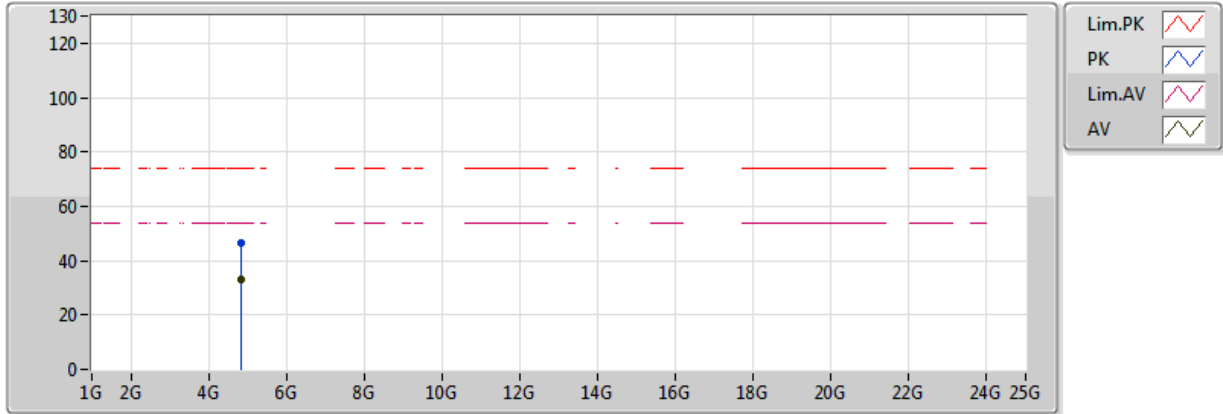
20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2746G	51.85	54.00	-2.15	33.20	3	Vertical	179	1.48	-
AV	2.3898G	53.90	54.00	-0.10	33.15	3	Vertical	179	1.48	-
AV	2.4102G	106.96	Inf	-Inf	33.15	3	Vertical	179	1.48	-
AV	2.4984G	49.30	54.00	-4.70	33.20	3	Vertical	179	1.48	-
PK	2.2752G	70.67	74.00	-3.33	33.20	3	Vertical	179	1.48	-
PK	2.3892G	71.91	74.00	-2.09	33.15	3	Vertical	179	1.48	-
PK	2.409G	116.57	Inf	-Inf	33.15	3	Vertical	179	1.48	-
PK	2.4978G	65.64	74.00	-8.36	33.20	3	Vertical	179	1.48	-



802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX



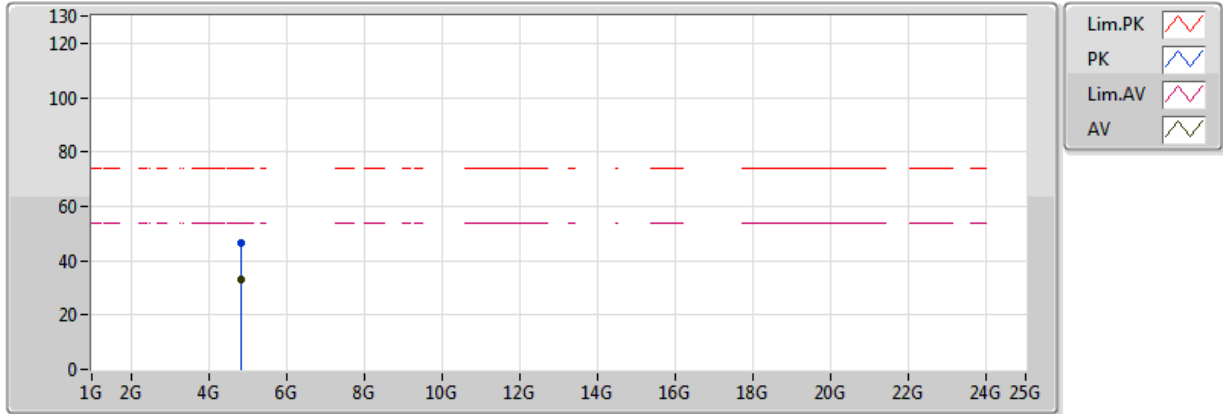
20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82164G	33.09	54.00	-20.91	4.18	3	Vertical	324	2.19	-
PK	4.82153G	46.26	74.00	-27.74	4.18	3	Vertical	324	2.19	-



802.11g_Nss1,(6Mbps)_3TX

2412MHz_TX

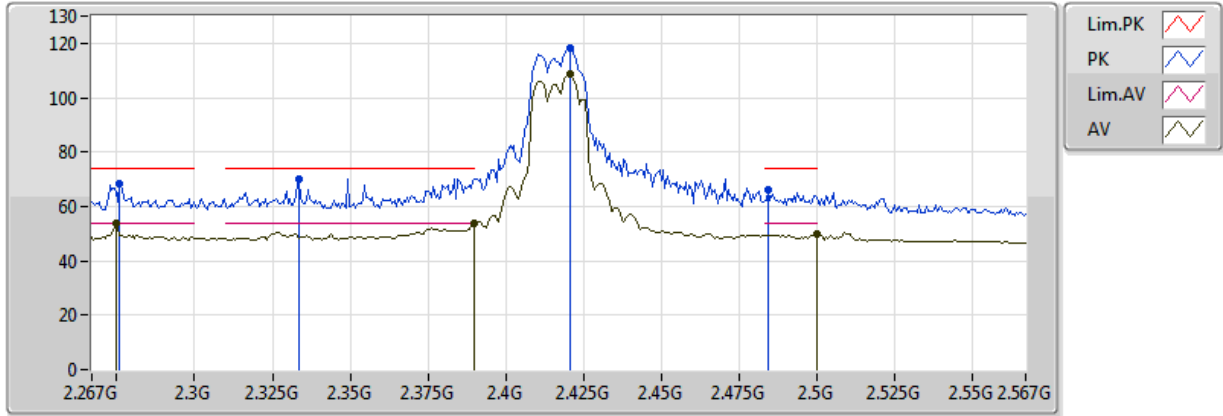


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82526G	32.87	54.00	-21.13	4.19	3	Horizontal	20	1.10	-
PK	4.82644G	46.57	74.00	-27.43	4.19	3	Horizontal	20	1.10	-

802.11g_Nss1,(6Mbps)_3TX

2417MHz_TX

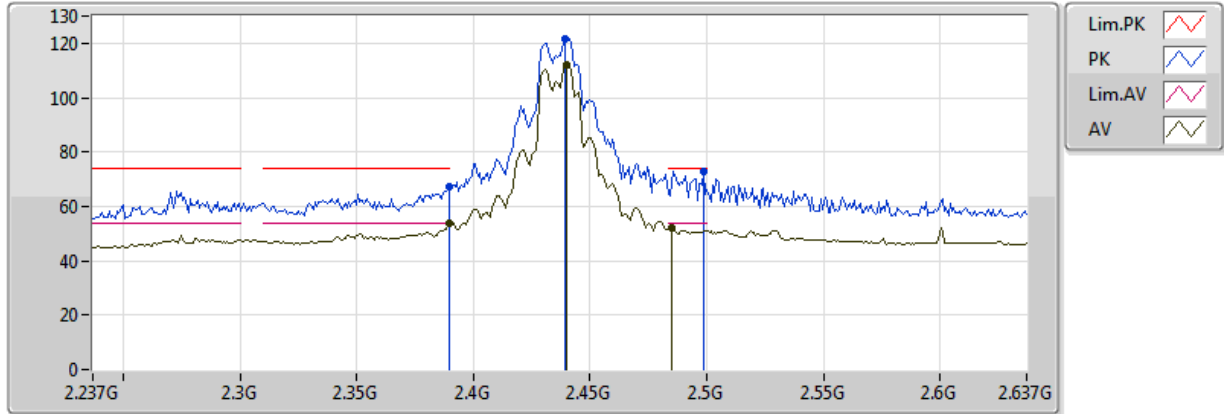


20171023
 EUT Y_3TX_Dipole
 Setting 14.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2748G	53.93	54.00	-0.07	33.20	3	Vertical	0	1.62	-
AV	2.389998G	53.97	54.00	-0.03	33.15	3	Vertical	0	1.62	-
AV	2.4206G	108.52	Inf	-Inf	33.15	3	Vertical	0	1.62	-
AV	2.499998G	50.00	54.00	-4.00	33.20	3	Vertical	0	1.62	-
PK	2.276G	68.17	74.00	-5.83	33.20	3	Vertical	0	1.62	-
PK	2.3336G	70.31	74.00	-3.69	33.17	3	Vertical	0	1.62	-
PK	2.4206G	118.33	Inf	-Inf	33.15	3	Vertical	0	1.62	-
PK	2.4842G	66.00	74.00	-8.00	33.19	3	Vertical	0	1.62	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

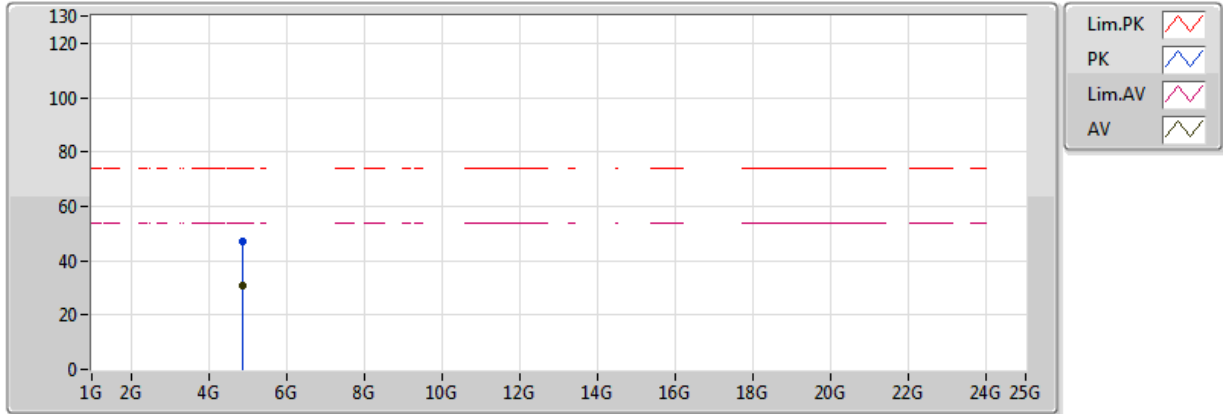


20171024
 EUT Y_3TX_Dipole
 Setting 20.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	53.96	54.00	-0.04	31.90	3	Vertical	2	1.50	-
AV	2.4402G	112.15	Inf	-Inf	32.12	3	Vertical	2	1.50	-
AV	2.485G	52.26	54.00	-1.74	32.33	3	Vertical	2	1.50	-
PK	2.389998G	67.51	74.00	-6.49	31.90	3	Vertical	2	1.50	-
PK	2.4394G	121.77	Inf	-Inf	32.12	3	Vertical	2	1.50	-
PK	2.4986G	72.88	74.00	-1.12	32.39	3	Vertical	2	1.50	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

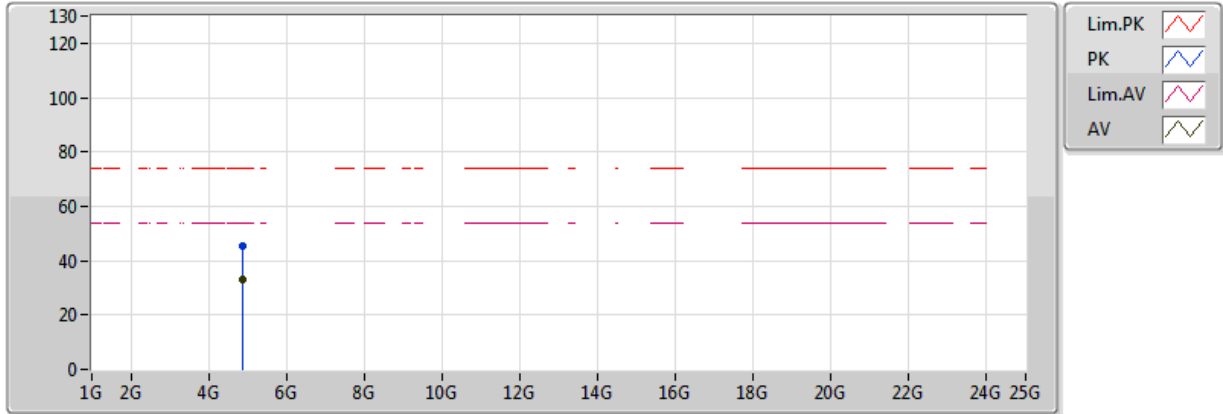


20171024
 EUT Y_3TX_Dipole
 Setting 20.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874992G	30.84	54.00	-23.16	2.54	3	Vertical	38	1.37	-
PK	4.874736G	46.79	74.00	-27.21	2.54	3	Vertical	38	1.37	-

802.11g_Nss1,(6Mbps)_3TX

2437MHz_TX

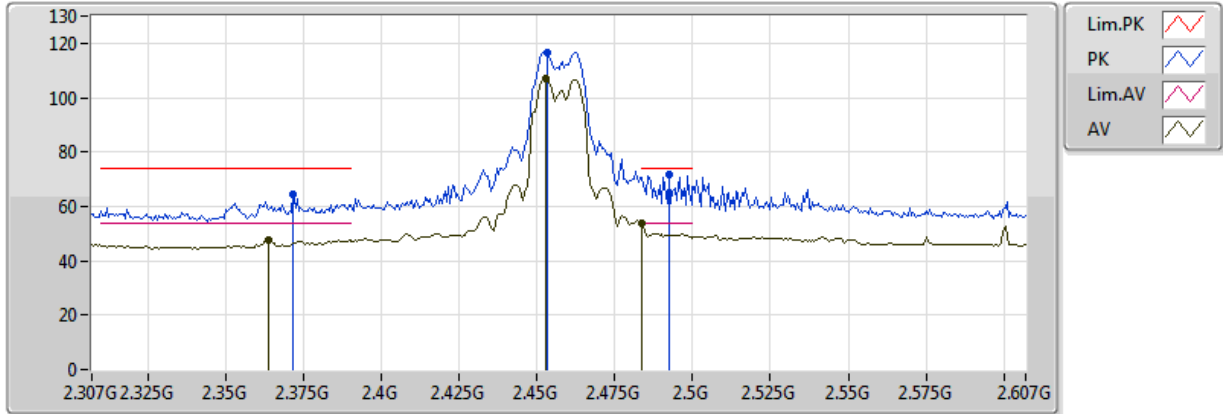


20171024
 EUT Y_3TX_Dipole
 Setting 20.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874964G	32.80	54.00	-21.20	2.54	3	Horizontal	203	1.98	-
PK	4.874368G	45.20	74.00	-28.80	2.54	3	Horizontal	203	1.98	-

802.11g_Nss1,(6Mbps)_3TX

2457MHz_TX

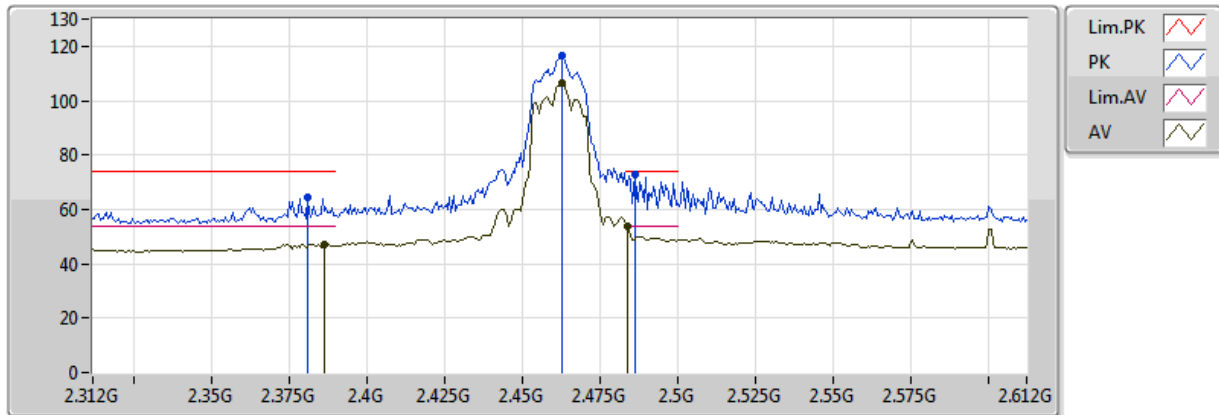


20171024
 EUT Y_3TX_Dipole
 Setting 15
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.364G	47.70	54.00	-6.30	31.80	3	Vertical	0	2.21	-
AV	2.4528G	106.86	Inf	-Inf	32.18	3	Vertical	0	2.21	-
AV	2.483502G	53.79	54.00	-0.21	32.32	3	Vertical	0	2.21	-
PK	2.3718G	64.31	74.00	-9.69	31.83	3	Vertical	0	2.21	-
PK	2.4534G	116.51	Inf	-Inf	32.19	3	Vertical	0	2.21	-
PK	2.4924G	71.55	74.00	-2.45	32.37	3	Vertical	0	2.21	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

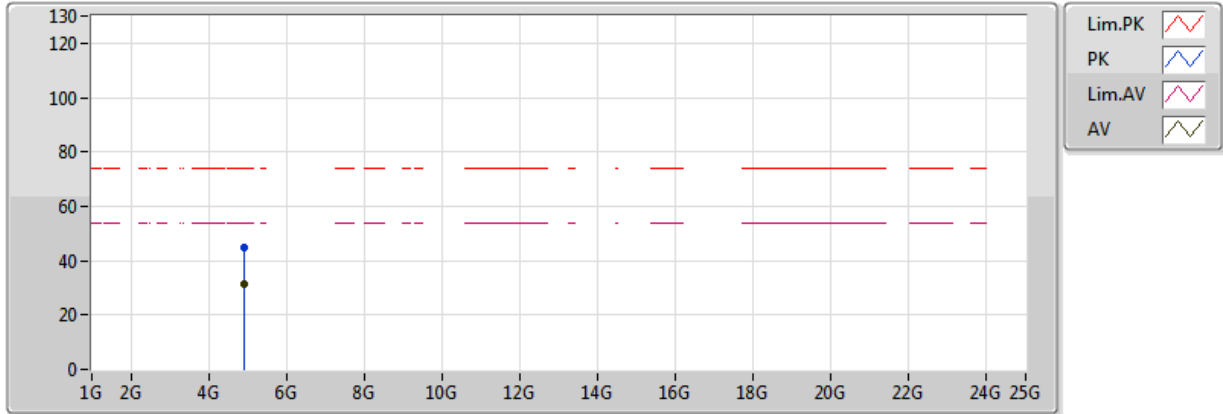


20171024
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3864G	47.19	54.00	-6.81	31.89	3	Vertical	0	2.22	-
AV	2.4626G	106.54	Inf	-Inf	32.23	3	Vertical	0	2.22	-
AV	2.4836G	53.98	54.00	-0.02	32.32	3	Vertical	0	2.22	-
PK	2.381G	64.32	74.00	-9.68	31.87	3	Vertical	0	2.22	-
PK	2.4626G	116.75	Inf	-Inf	32.23	3	Vertical	0	2.22	-
PK	2.486G	73.01	74.00	-0.99	32.34	3	Vertical	0	2.22	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

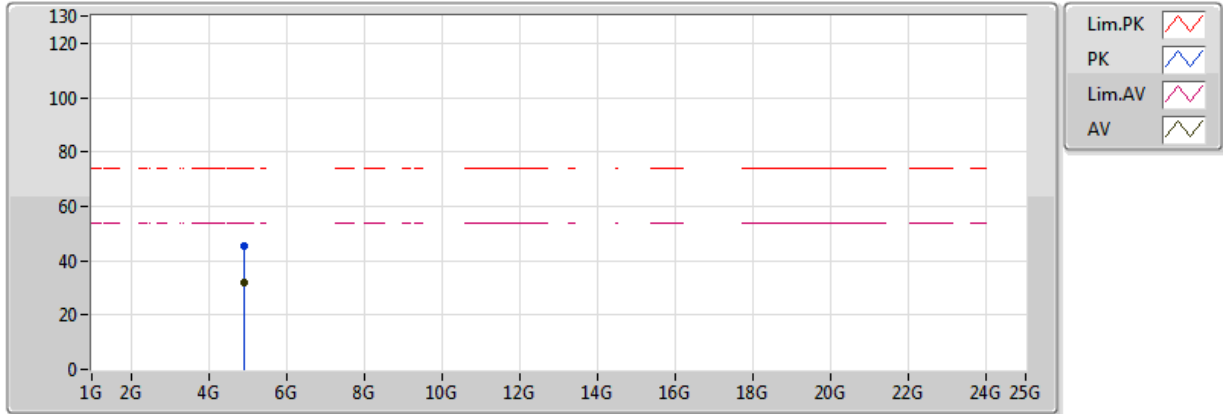


20171024
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.922536G	31.51	54.00	-22.49	2.69	3	Vertical	72	2.47	-
PK	4.924966G	45.03	74.00	-28.97	2.70	3	Vertical	72	2.47	-

802.11g_Nss1,(6Mbps)_3TX

2462MHz_TX

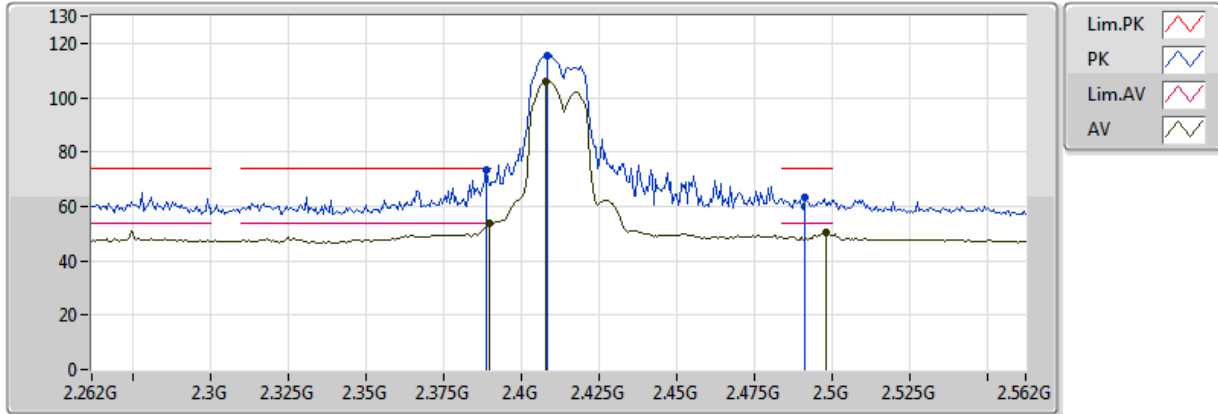


20171024
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.922842G	31.75	54.00	-22.25	2.69	3	Horizontal	162	1.31	-
PK	4.923238G	45.23	74.00	-28.77	2.69	3	Horizontal	162	1.31	-

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX

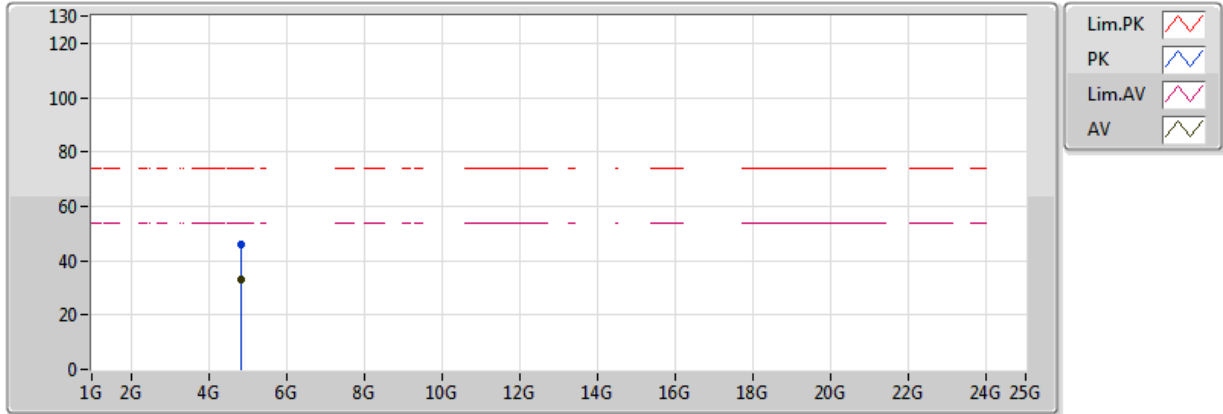


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	53.64	54.00	-0.36	33.15	3	Vertical	177	2.22	-
AV	2.4078G	106.02	Inf	-Inf	33.14	3	Vertical	177	2.22	-
AV	2.4978G	50.30	54.00	-3.70	33.20	3	Vertical	177	2.22	-
PK	2.3886G	73.14	74.00	-0.86	33.15	3	Vertical	177	2.22	-
PK	2.4084G	115.70	Inf	-Inf	33.15	3	Vertical	177	2.22	-
PK	2.4912G	63.32	74.00	-10.68	33.19	3	Vertical	177	2.22	-

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX

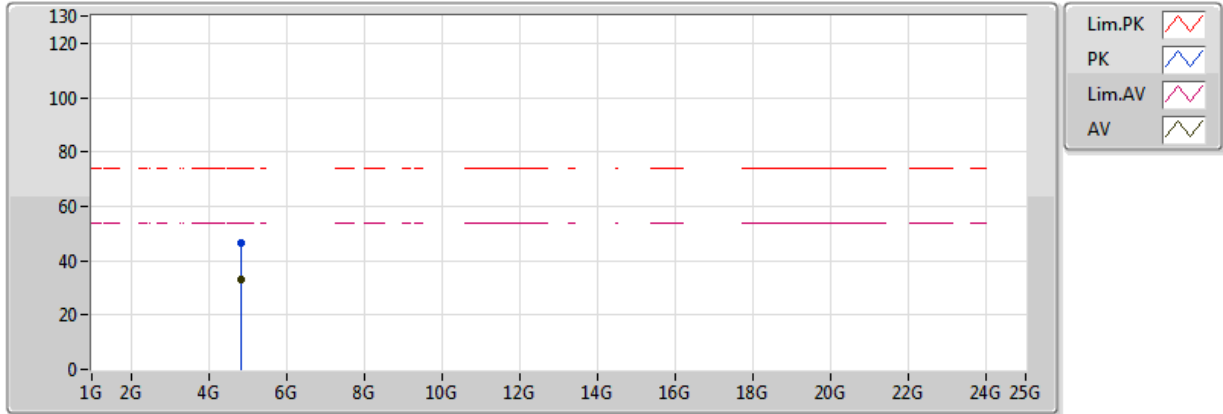


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824978G	33.21	54.00	-20.79	4.19	3	Vertical	1	1.81	-
PK	4.824498G	46.13	74.00	-27.87	4.19	3	Vertical	1	1.81	-

802.11n HT20_Nss1,(MCS0)_3TX

2412MHz_TX

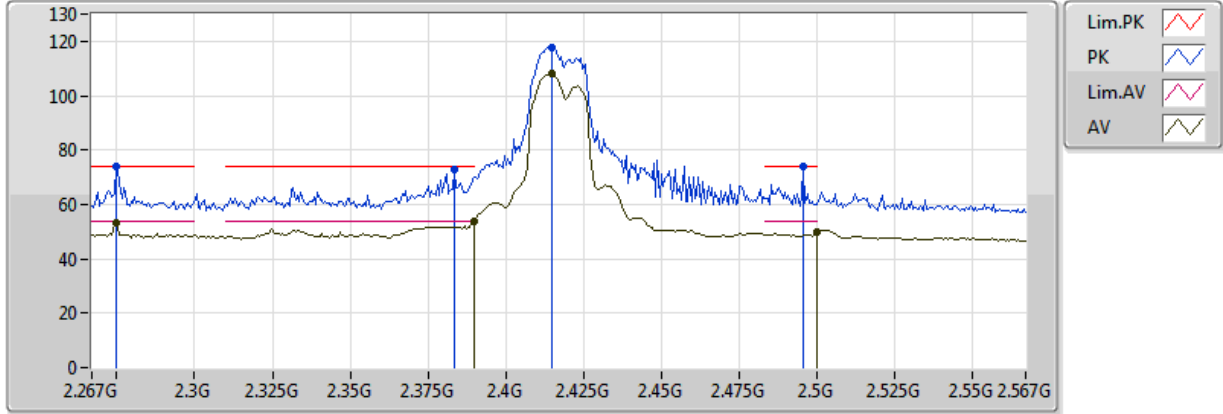


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.825302G	33.09	54.00	-20.91	4.19	3	Horizontal	314	1.21	-
PK	4.823994G	46.41	74.00	-27.59	4.18	3	Horizontal	314	1.21	-

802.11n HT20_Nss1,(MCS0)_3TX

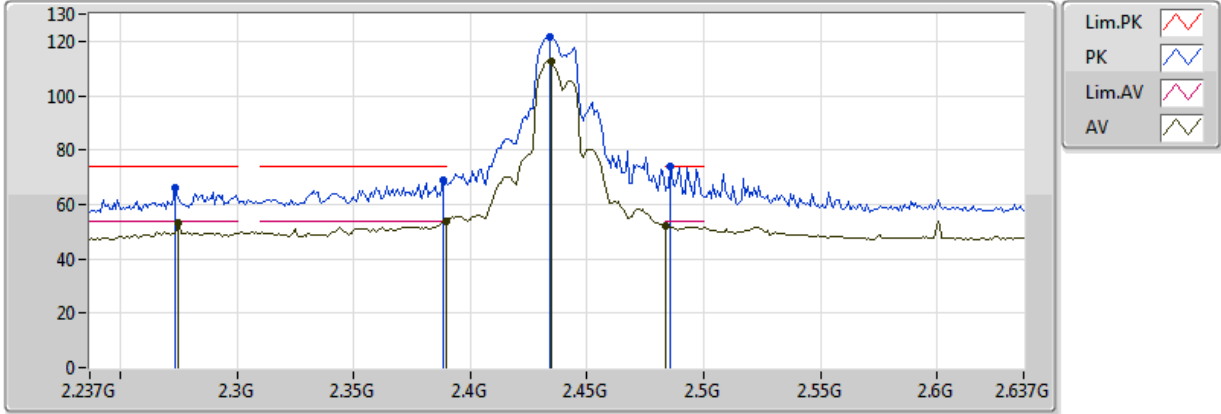
2417MHz_TX



20171023
 EUT Y_3TX_Dipole
 Setting 15
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2748G	53.03	54.00	-0.97	33.20	3	Vertical	357	1.65	-
AV	2.389998G	53.98	54.00	-0.02	33.15	3	Vertical	357	1.65	-
AV	2.4146G	108.16	Inf	-Inf	33.15	3	Vertical	357	1.65	-
AV	2.499998G	49.62	54.00	-4.38	33.20	3	Vertical	357	1.65	-
PK	2.2748G	73.94	74.00	-0.06	33.20	3	Vertical	357	1.65	-
PK	2.3834G	72.64	74.00	-1.36	33.15	3	Vertical	357	1.65	-
PK	2.4146G	117.87	Inf	-Inf	33.15	3	Vertical	357	1.65	-
PK	2.4956G	73.83	74.00	-0.17	33.20	3	Vertical	357	1.65	-

**802.11n HT20_Nss1,(MCS0)_3TX
2437MHz_TX**

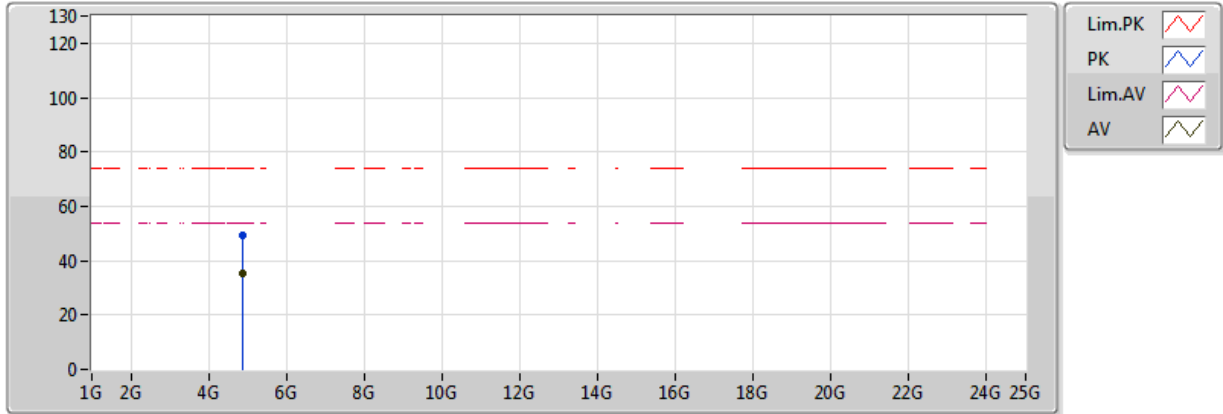


20171023
EUT Y_3TX_Dipole
Setting 19.5
04-W-3
FSP(100142)
Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2746G	53.21	54.00	-0.79	33.20	3	Vertical	355	1.50	-
AV	2.3898G	53.95	54.00	-0.05	33.15	3	Vertical	355	1.50	-
AV	2.4346G	112.52	Inf	-Inf	33.16	3	Vertical	355	1.50	-
AV	2.483502G	52.21	54.00	-1.79	33.19	3	Vertical	355	1.50	-
PK	2.2738G	66.05	74.00	-7.95	33.20	3	Vertical	355	1.50	-
PK	2.3882G	69.03	74.00	-4.97	33.15	3	Vertical	355	1.50	-
PK	2.4338G	121.72	Inf	-Inf	33.16	3	Vertical	355	1.50	-
PK	2.4858G	73.97	74.00	-0.03	33.19	3	Vertical	355	1.50	-

802.11n HT20_Nss1,(MCS0)_3TX

2437MHz_TX

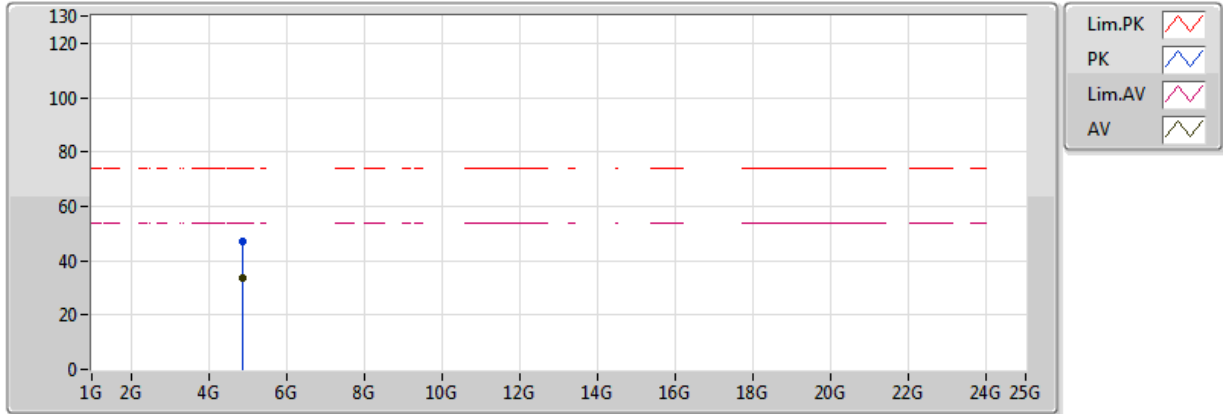


20171023
 EUT Y_3TX_Dipole
 Setting 19.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87163G	35.08	54.00	-18.92	4.33	3	Vertical	314	2.40	-
PK	4.87507G	49.33	74.00	-24.67	4.34	3	Vertical	314	2.40	-

802.11n HT20_Nss1,(MCS0)_3TX

2437MHz_TX

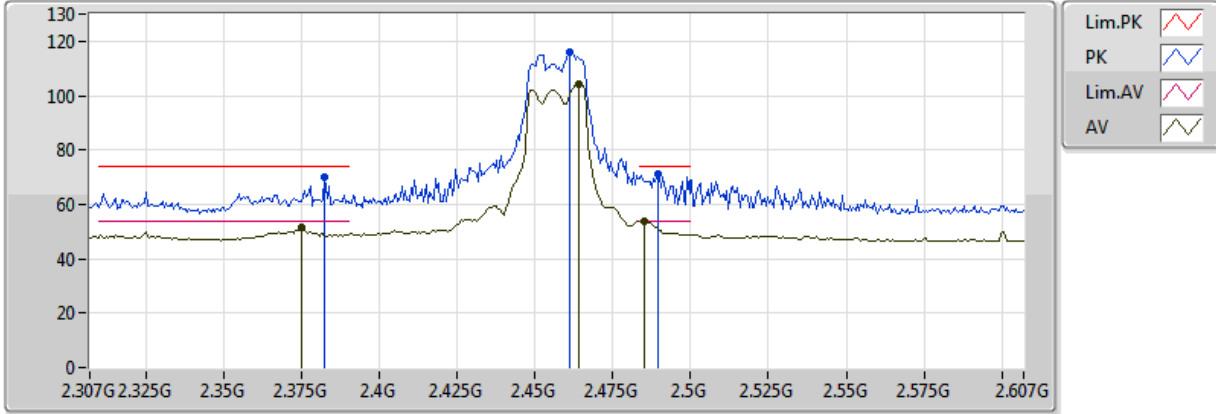


20171023
 EUT Y_3TX_Dipole
 Setting 19.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8728G	33.37	54.00	-20.63	4.34	3	Horizontal	149	1.70	-
PK	4.87404G	46.95	74.00	-27.05	4.34	3	Horizontal	149	1.70	-

802.11n HT20_Nss1,(MCS0)_3TX

2457MHz_TX

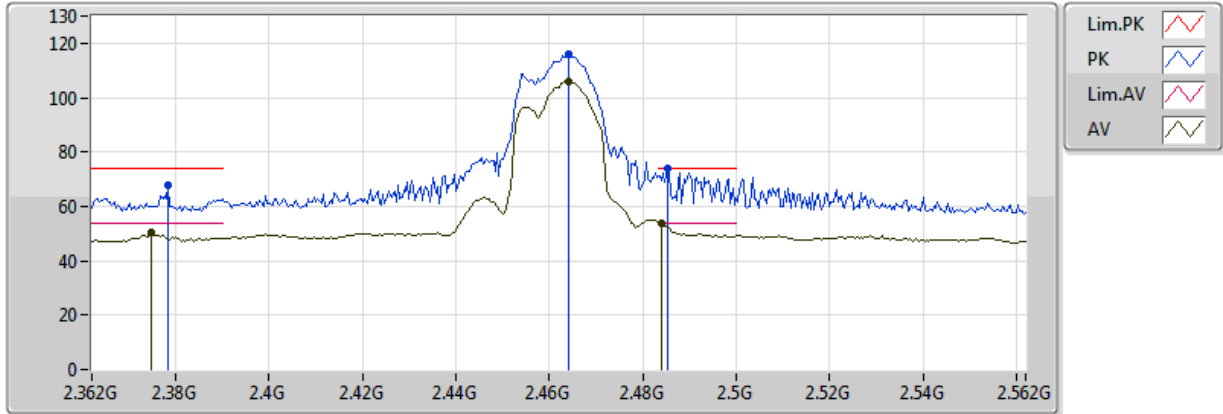


20171023
 EUT Y_3TX_Dipole
 Setting 15.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3748G	51.56	54.00	-2.44	33.15	3	Vertical	8	1.50	-
AV	2.4642G	104.43	Inf	-Inf	33.18	3	Vertical	8	1.50	-
AV	2.4852G	53.94	54.00	-0.06	33.19	3	Vertical	8	1.50	-
PK	2.3826G	70.10	74.00	-3.90	33.15	3	Vertical	8	1.50	-
PK	2.4612G	115.95	Inf	-Inf	33.18	3	Vertical	8	1.50	-
PK	2.4894G	70.97	74.00	-3.03	33.19	3	Vertical	8	1.50	-

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

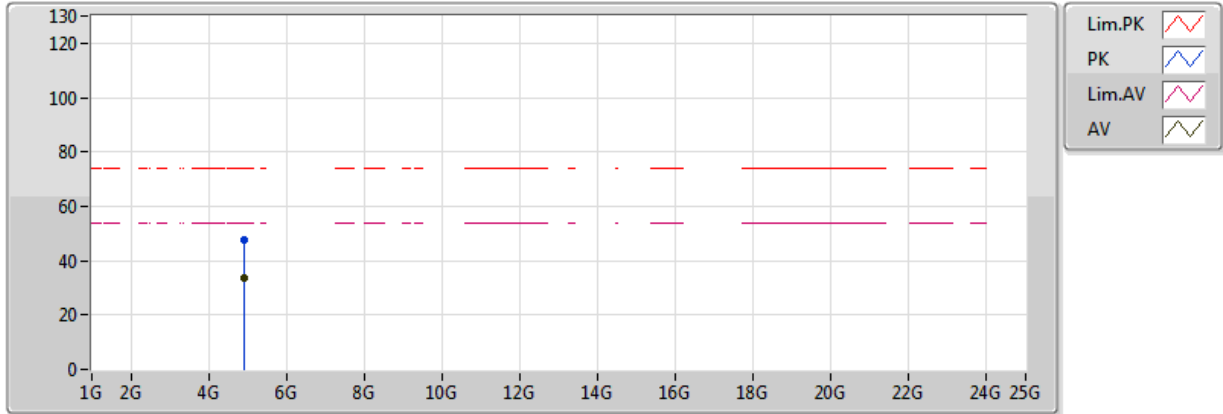


20171023
 EUT Y_3TX_Dipole
 Setting 12
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3748G	50.35	54.00	-3.65	33.15	3	Vertical	171	1.75	-
AV	2.464G	105.90	Inf	-Inf	33.18	3	Vertical	171	1.75	-
AV	2.484G	53.97	54.00	-0.03	33.19	3	Vertical	171	1.75	-
PK	2.3784G	67.67	74.00	-6.33	33.15	3	Vertical	171	1.75	-
PK	2.464G	115.72	Inf	-Inf	33.18	3	Vertical	171	1.75	-
PK	2.4852G	73.69	74.00	-0.31	33.19	3	Vertical	171	1.75	-

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

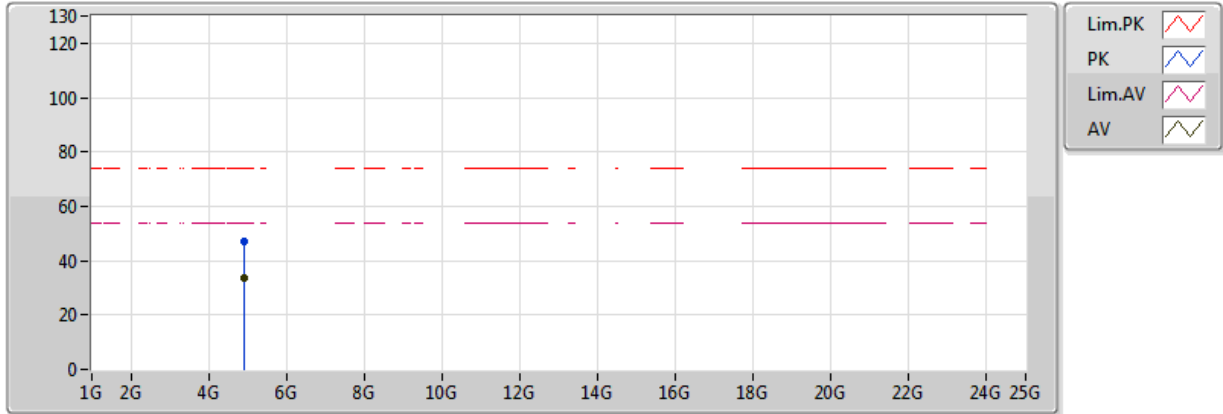


20171023
 EUT Y_3TX_Dipole
 Setting 12
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.922644G	33.87	54.00	-20.13	4.49	3	Vertical	292	1.10	-
PK	4.92532G	47.43	74.00	-26.57	4.50	3	Vertical	292	1.10	-

802.11n HT20_Nss1,(MCS0)_3TX

2462MHz_TX

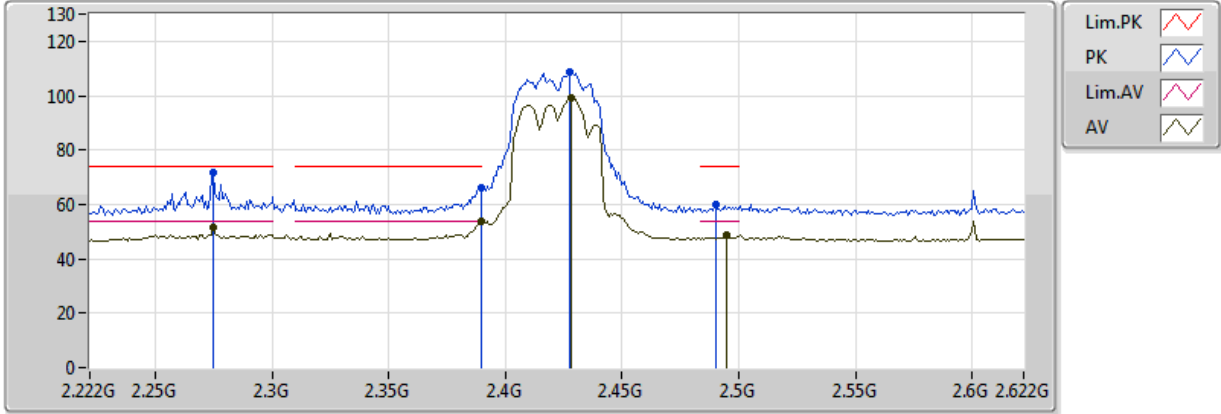


20171023
 EUT Y_3TX_Dipole
 Setting 12
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92328G	33.69	54.00	-20.31	4.49	3	Horizontal	113	1.40	-
PK	4.925008G	47.17	74.00	-26.83	4.50	3	Horizontal	113	1.40	-

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

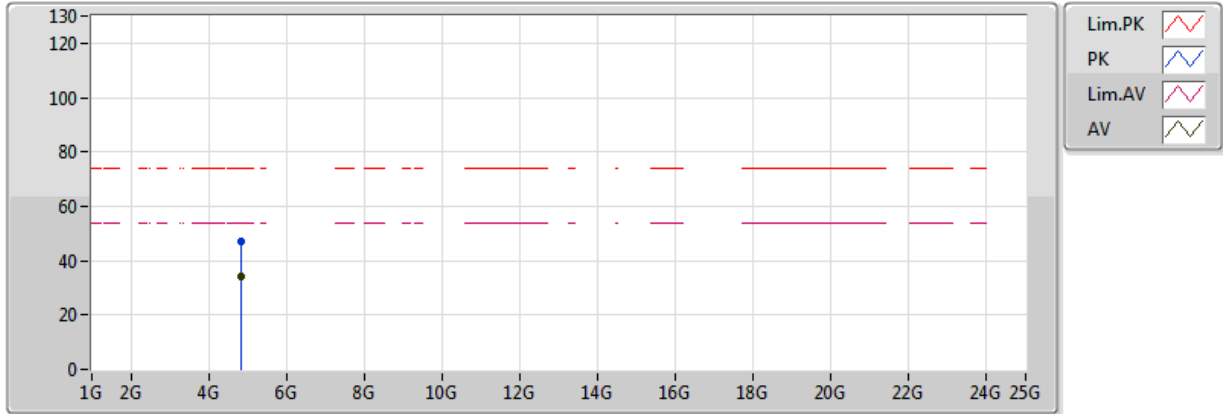


20171023
 EUT Y_3TX_Dipole
 Setting 8.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2748G	51.73	54.00	-2.27	33.20	3	Vertical	0	1.64	-
AV	2.389998G	53.96	54.00	-0.04	33.15	3	Vertical	0	1.64	-
AV	2.4284G	99.18	Inf	-Inf	33.16	3	Vertical	0	1.64	-
AV	2.4948G	48.47	54.00	-5.53	33.20	3	Vertical	0	1.64	-
PK	2.2748G	71.92	74.00	-2.08	33.20	3	Vertical	0	1.64	-
PK	2.389998G	66.08	74.00	-7.92	33.15	3	Vertical	0	1.64	-
PK	2.4276G	108.47	Inf	-Inf	33.16	3	Vertical	0	1.64	-
PK	2.49G	59.91	74.00	-14.09	33.19	3	Vertical	0	1.64	-

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

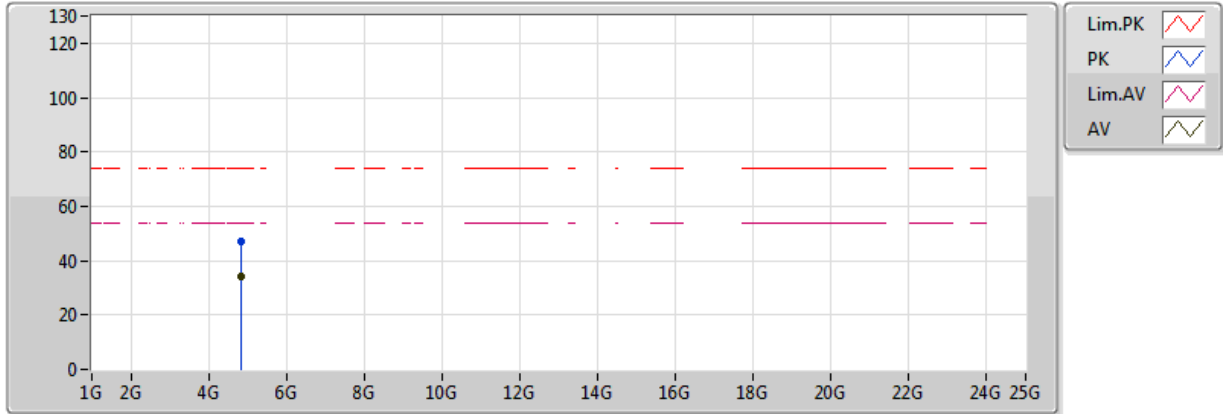


20171023
 EUT Y_3TX_Dipole
 Setting 8.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.842288G	34.17	54.00	-19.83	4.24	3	Vertical	37	2.43	-
PK	4.845648G	46.93	74.00	-27.07	4.25	3	Vertical	37	2.43	-

802.11n HT40_Nss1,(MCS0)_3TX

2422MHz_TX

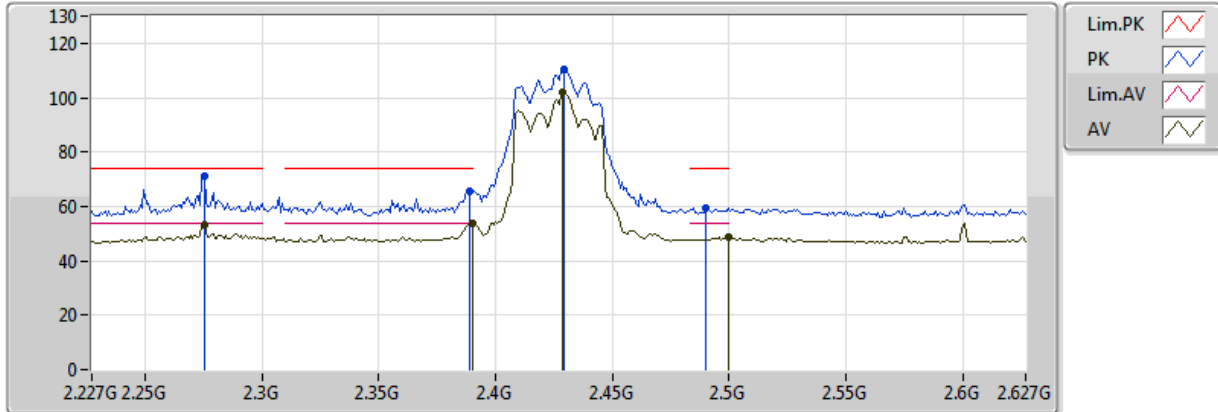


20171023
 EUT Y_3TX_Dipole
 Setting 8.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.844208G	34.34	54.00	-19.66	4.25	3	Horizontal	229	1.82	-
PK	4.84296G	46.84	74.00	-27.16	4.24	3	Horizontal	229	1.82	-

802.11n HT40_Nss1,(MCS0)_3TX

2427MHz_TX

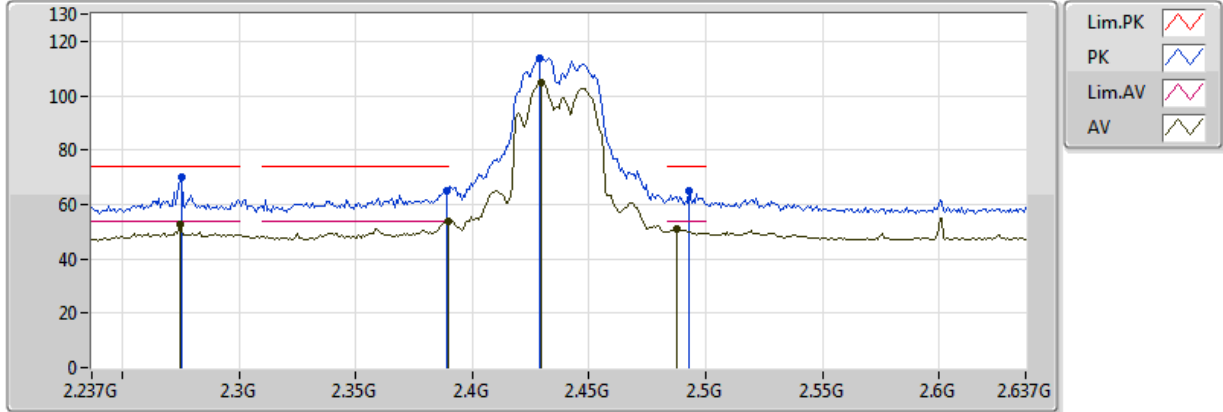


20171023
 EUT Y_3TX_Dipole
 Setting 9.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.275G	53.45	54.00	-0.55	33.20	3	Vertical	358	1.50	-
AV	2.389998G	53.95	54.00	-0.05	33.15	3	Vertical	358	1.50	-
AV	2.4286G	102.05	Inf	-Inf	33.16	3	Vertical	358	1.50	-
AV	2.499998G	48.81	54.00	-5.19	33.20	3	Vertical	358	1.50	-
PK	2.275G	71.33	74.00	-2.67	33.20	3	Vertical	358	1.50	-
PK	2.3886G	65.78	74.00	-8.22	33.15	3	Vertical	358	1.50	-
PK	2.4294G	110.56	Inf	-Inf	33.16	3	Vertical	358	1.50	-
PK	2.4902G	59.56	74.00	-14.44	33.19	3	Vertical	358	1.50	-

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX

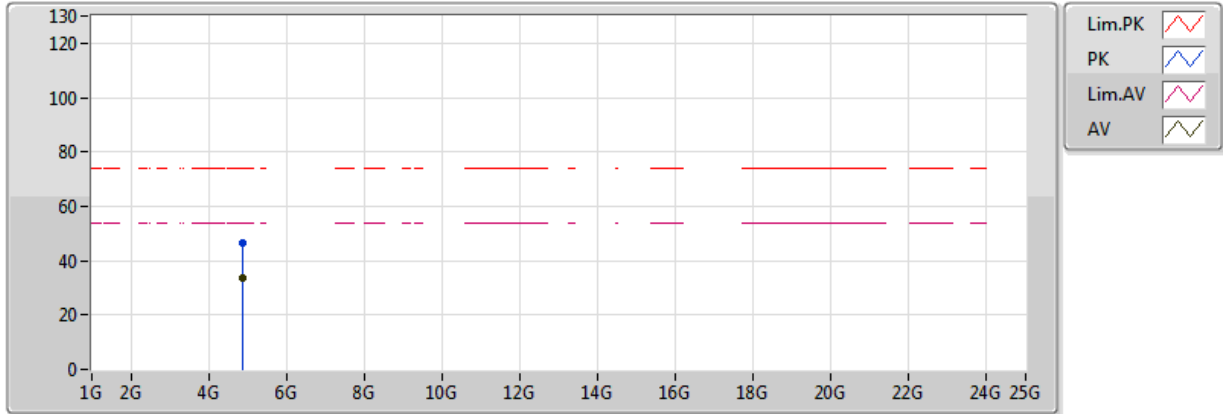


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2746G	52.82	54.00	-1.18	33.20	3	Vertical	357	1.84	-
AV	2.3898G	53.74	54.00	-0.26	33.15	3	Vertical	357	1.84	-
AV	2.4298G	104.63	Inf	-Inf	33.16	3	Vertical	357	1.84	-
AV	2.4874G	51.03	54.00	-2.97	33.19	3	Vertical	357	1.84	-
PK	2.2754G	70.28	74.00	-3.72	33.20	3	Vertical	357	1.84	-
PK	2.389G	64.82	74.00	-9.18	33.15	3	Vertical	357	1.84	-
PK	2.429G	113.95	Inf	-Inf	33.16	3	Vertical	357	1.84	-
PK	2.493G	65.06	74.00	-8.94	33.20	3	Vertical	357	1.84	-

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX

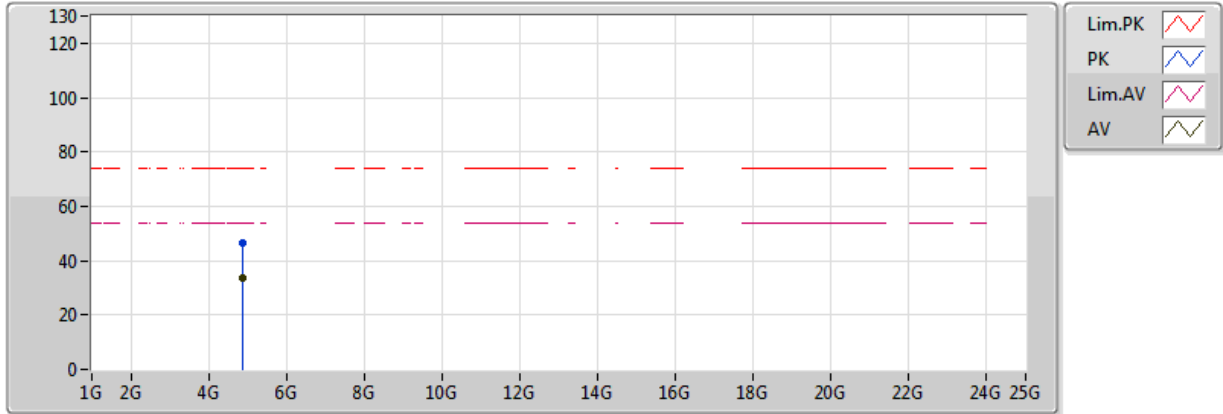


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.872128G	33.81	54.00	-20.19	4.33	3	Vertical	3	1.72	-
PK	4.87524G	46.47	74.00	-27.53	4.34	3	Vertical	3	1.72	-

802.11n HT40_Nss1,(MCS0)_3TX

2437MHz_TX

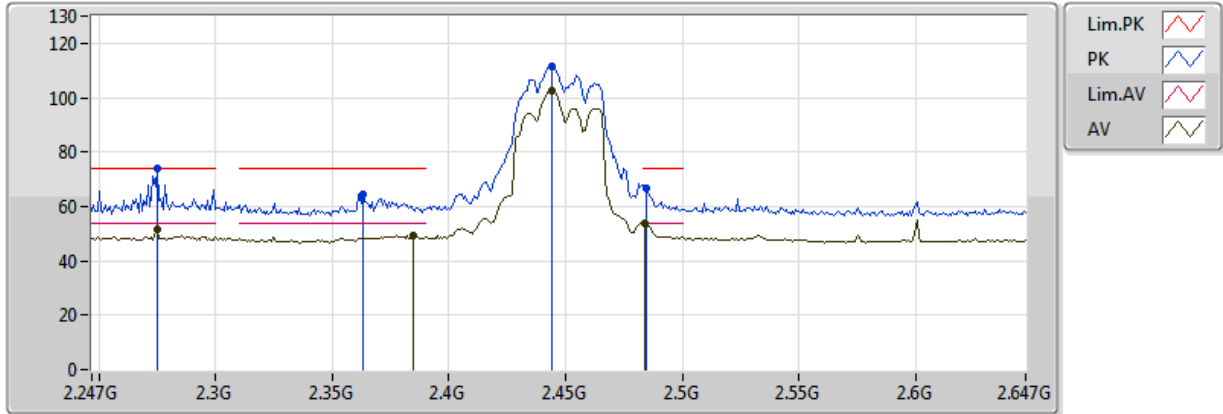


20171023
 EUT Y_3TX_Dipole
 Setting 13
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.872736G	33.79	54.00	-20.21	4.34	3	Horizontal	330	2.34	-
PK	4.87288G	46.54	74.00	-27.46	4.34	3	Horizontal	330	2.34	-

802.11n HT40_Nss1,(MCS0)_3TX

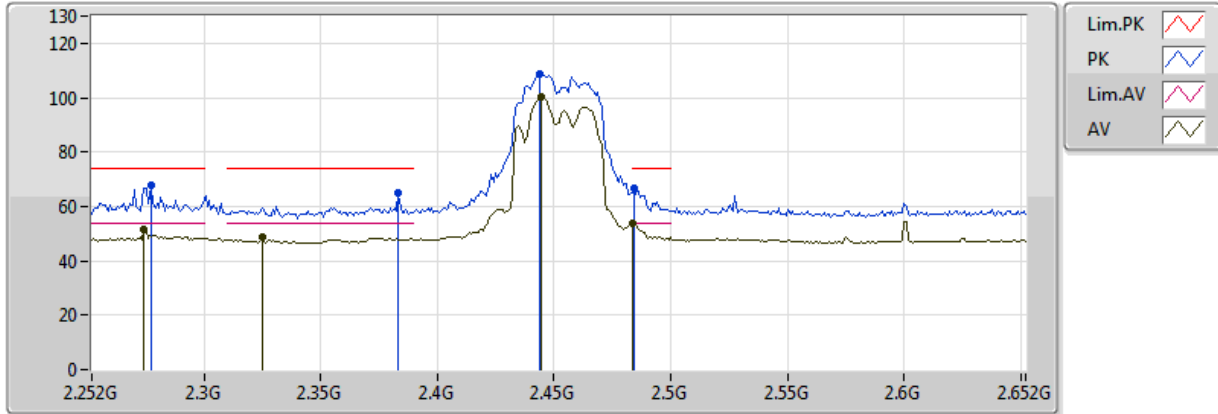
2447MHz_TX



20171023
 EUT Y_3TX_Dipole
 Setting 10
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.275G	51.76	54.00	-2.24	33.20	3	Vertical	359	1.80	-
AV	2.3846G	49.37	54.00	-4.63	33.15	3	Vertical	359	1.80	-
AV	2.4438G	102.76	Inf	-Inf	33.17	3	Vertical	359	1.80	-
AV	2.4838G	53.71	54.00	-0.29	33.19	3	Vertical	359	1.80	-
PK	2.275G	73.86	74.00	-0.14	33.20	3	Vertical	359	1.80	-
PK	2.363G	64.43	74.00	-9.57	33.16	3	Vertical	359	1.80	-
PK	2.4438G	111.46	Inf	-Inf	33.17	3	Vertical	359	1.80	-
PK	2.4846G	66.92	74.00	-7.08	33.19	3	Vertical	359	1.80	-

802.11n HT40_Nss1,(MCS0)_3TX 2452MHz_TX

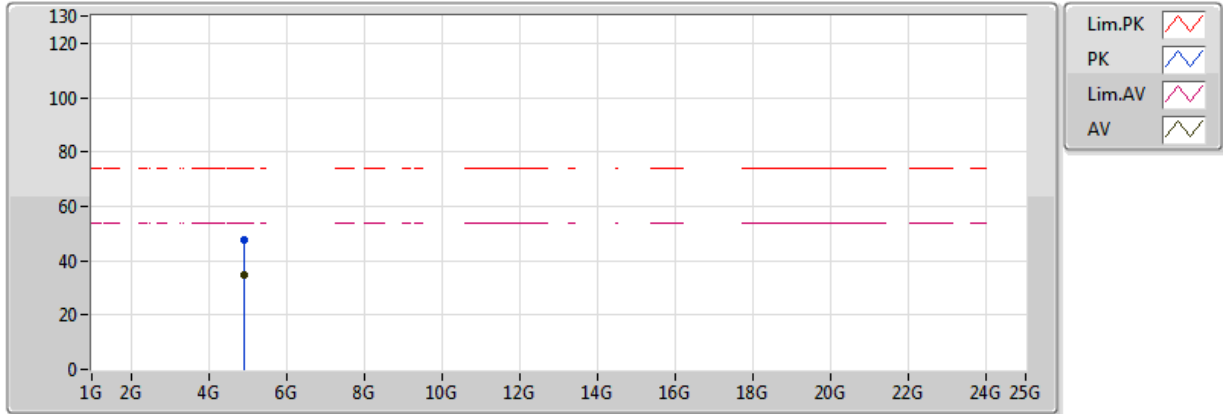


20171023
EUT Y_3TX_Dipole
Setting 8.5
04-W-3
FSP(100142)
Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.2744G	51.46	54.00	-2.54	33.20	3	Vertical	0	1.79	-
AV	2.3248G	48.97	54.00	-5.03	33.18	3	Vertical	0	1.79	-
AV	2.4448G	100.26	Inf	-Inf	33.17	3	Vertical	0	1.79	-
AV	2.483502G	53.73	54.00	-0.27	33.19	3	Vertical	0	1.79	-
PK	2.2776G	67.99	74.00	-6.01	33.20	3	Vertical	0	1.79	-
PK	2.3832G	64.75	74.00	-9.25	33.15	3	Vertical	0	1.79	-
PK	2.444G	108.46	Inf	-Inf	33.17	3	Vertical	0	1.79	-
PK	2.484G	66.70	74.00	-7.30	33.19	3	Vertical	0	1.79	-

802.11n HT40_Nss1,(MCS0)_3TX

2452MHz_TX

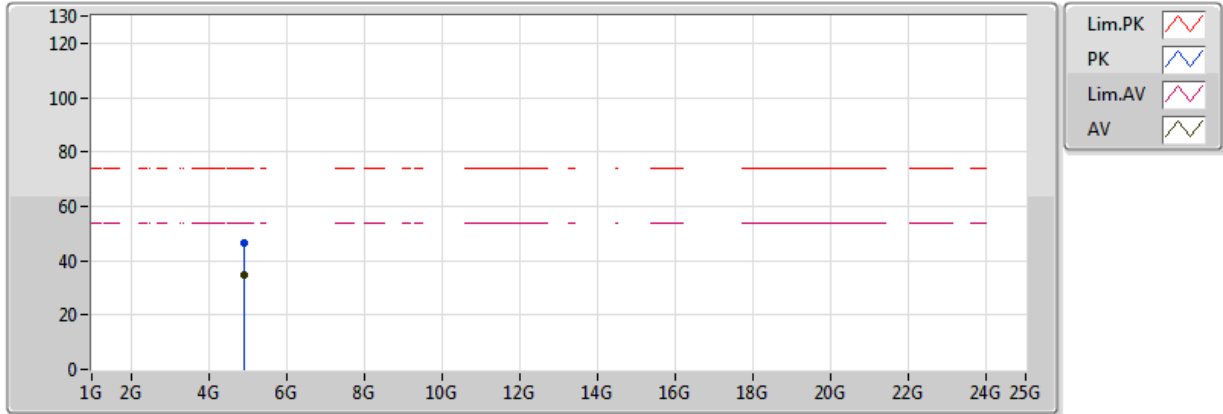


20171023
 EUT Y_3TX_Dipole
 Setting 8.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.904144G	34.63	54.00	-19.37	4.43	3	Vertical	289	1.12	-
PK	4.90592G	47.64	74.00	-26.36	4.44	3	Vertical	289	1.12	-

802.11n HT40_Nss1,(MCS0)_3TX

2452MHz_TX

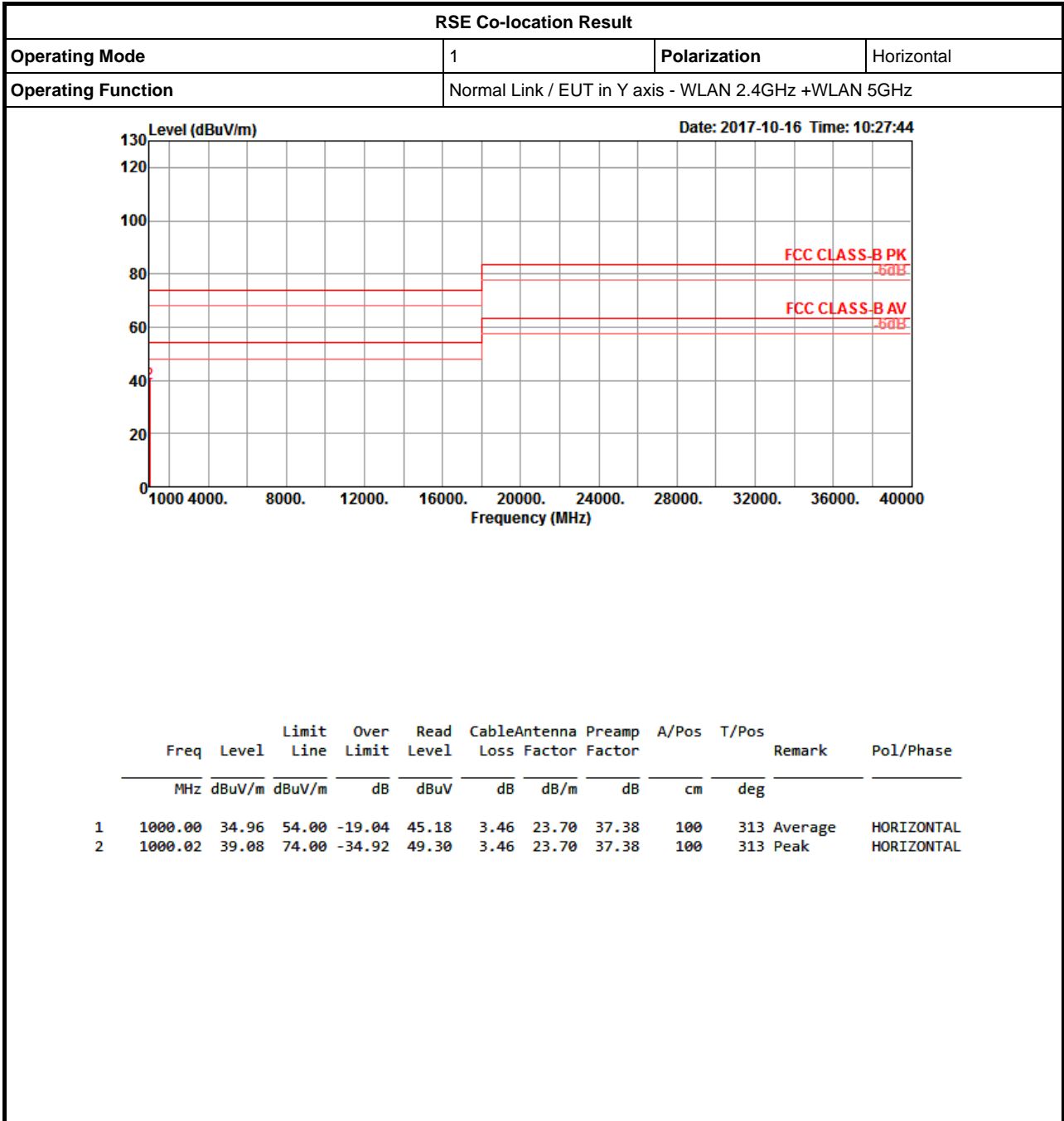


20171023
 EUT Y_3TX_Dipole
 Setting 8.5
 04-W-3
 FSP(100142)
 Sample #1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.905488G	34.57	54.00	-19.43	4.44	3	Horizontal	184	1.59	-
PK	4.902416G	46.54	74.00	-27.46	4.43	3	Horizontal	184	1.59	-



RSE Co-location Result





RSE Co-location Result

Appendix G

