



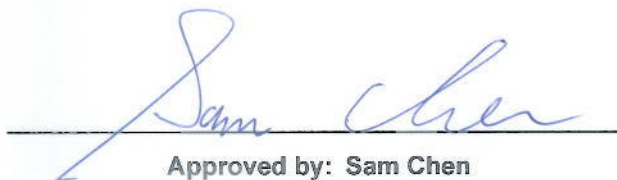
FCC RADIO TEST REPORT

FCC ID : 2ALCB-HG-W-B03-0001
Equipment : Smart Speakerphone
Brand Name : InnoMedia
Model Name : ABCDEF (Refer to 1.1.5 for more details)
Applicant : INNOMEDIA TECHNOLOGY INC
3RD FL HSINCHU SCIENCE-BASED INDUSTRIAL PARK
3 INDUSTRIAL E RD IX HSINCHU 300 TAIWAN
Manufacturer : LUEN HUEI ELECTRONICS CO.,LTD
17 Kuang Fu Rd.,Hsinchu Industrial,Park Hsinchu
Hsien 303,Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 25, 2018, and testing was started from Jan. 24, 2019 and completed on Feb. 12, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Page Number : 3 of 28
Issued Date : Feb. 26, 2019
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	LYNwave	ALT140-222020-01	PIFA Antenna	I-PEX	2	3

Note1: The above information was declared by manufacturer.

Note2:

<For 2.4GHz Band>

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

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

<For 5GHz Band>

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

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.992	0.035	n/a (DC \geq 0.98)	n/a (DC \geq 0.98)
802.11g	0.95	0.223	2.068m	1k
802.11n HT20	0.951	0.218	1.925m	1k
802.11n HT40	0.903	0.443	950u	3k

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
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	SecureCRT(virision 1.0.1.111A-audio_wifi Mon Jan 14 15:30:17 2019)			

Note: The above information was declared by manufacturer.



1.1.5 Table for Multiple Listing

The model names: ABCDEF are defined as below information:

- ✓ A : Two letter Series identifier
- ✓ B : Number 0~9 and 4 digit is optional
- ✓ C : Use G (Google) or A (Amazon) or other letters for designation letter from A~Z for another customer offering
- ✓ D : - or empty
- ✓ E : 1 or empty
- ✓ F : W or empty

Character	Number	Description
A	HG	Home Gateway Series Identifier for marketing needs
	SP	Smart Phone Series Identifier for marketing needs
	BT	BuddyTalk Series Identifier for marketing needs
	SC	SmartCommunicator Series Identifier for marketing needs
B	0~9	This can be changed with Software configuration
C	G (Google)	Optional designation letter from A~Z for another customer offering, marketing needs
	A (Amazon)	
	other letters	
D	-	a field separator
	empty	No separator
E	1	1 port FXS
	empty	No FXS port
F	W	Wifi used
	empty	Without Wifi used

From the above models, model: HG8328-1W 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 v05r01

1.3 Testing Location Information

Testing Location				
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
<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	Eason Chen	22~24°C / 54~56%	Jan. 28, 2019~ Jan. 30, 2019
Radiated	03CH01-CB	Stim Sung	22~24°C / 52~55%	Jan. 24, 2019~ Feb. 11, 2019
AC Conduction	CO02-CB	Wei Li	26.3~26.7°C / 60.1~60.7%	Feb. 12, 2019

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)	2.0 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	PowerSetting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	48
2437MHz	46
2462MHz	42
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	54
2417MHz	62
2422MHz	63
2437MHz	63
2447MHz	63
2452MHz	62
2457MHz	59
2462MHz	52
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	52
2417MHz	61
2422MHz	63
2437MHz	63
2447MHz	63
2452MHz	61
2457MHz	58
2462MHz	50
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	49
2432MHz	52
2437MHz	52
2442MHz	50
2447MHz	49
2452MHz	48

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	CTX
1	CTX + 2.4GHz
2	CTX + 5GHz
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	CTX + 2.4GHz
2	CTX + 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

Note: The EUT can only be used in Z-axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter	AtechOEM	ADS0248T-W120200	Input: 100-240V~50-60Hz, 0.6A Output: 12V, 2.0A

2.5 Support Equipment

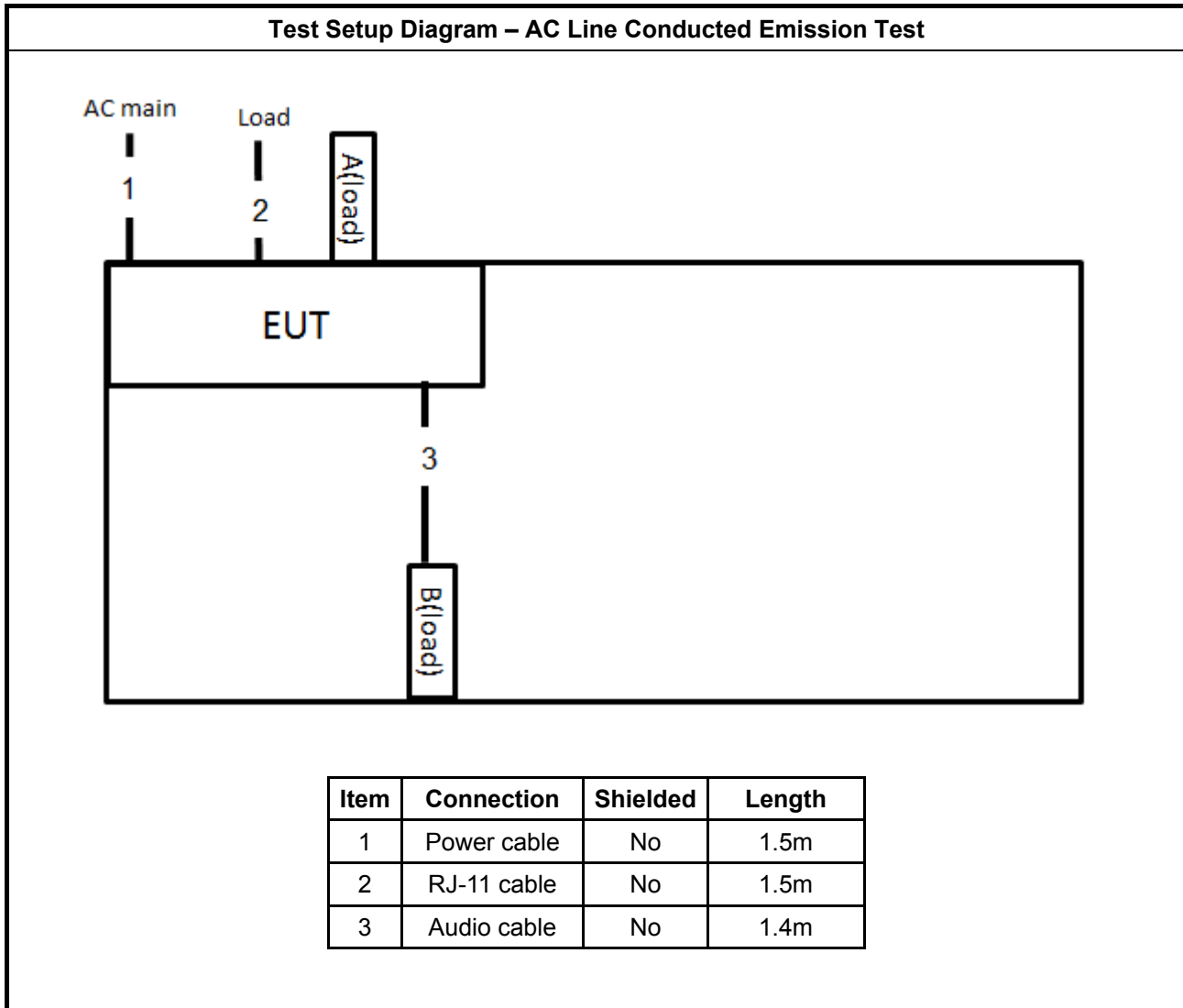
For Test Site No: CO02-CB

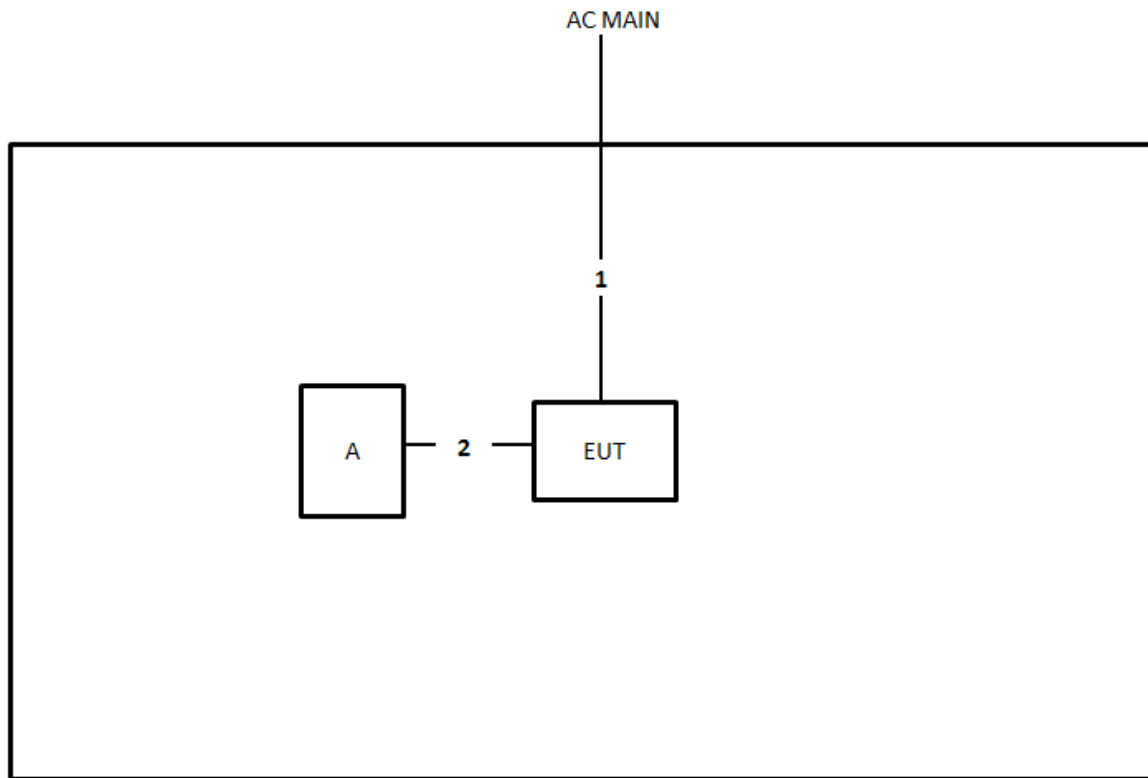
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	Earphone	e-Power	S90W	N/A

For Test Site No: 03CH01-CB and TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	Console cable	Yes	0.7m



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.

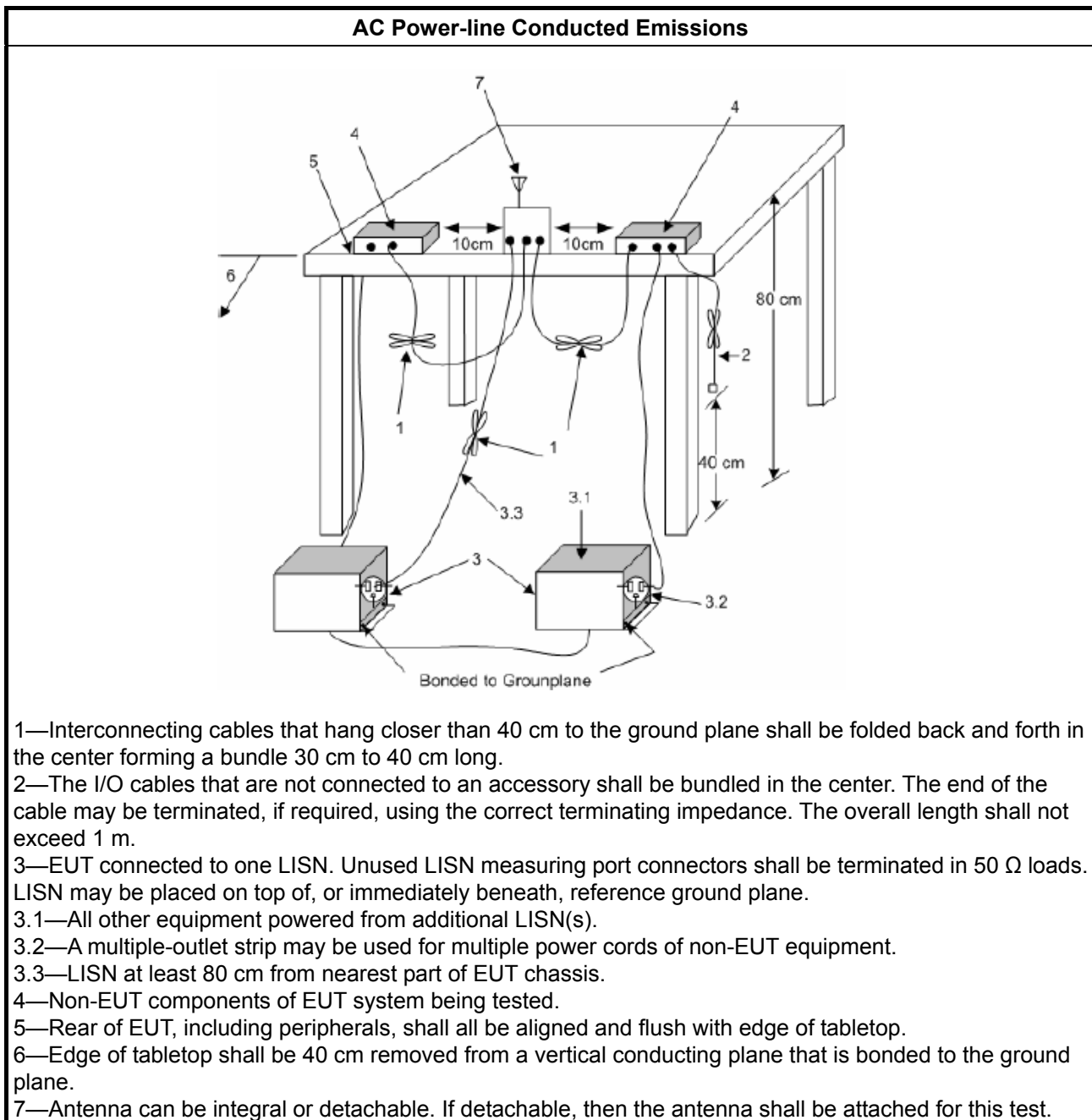
3.1.2 Measuring Instruments

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:	
▪	6 dB bandwidth \geq 500 kHz.

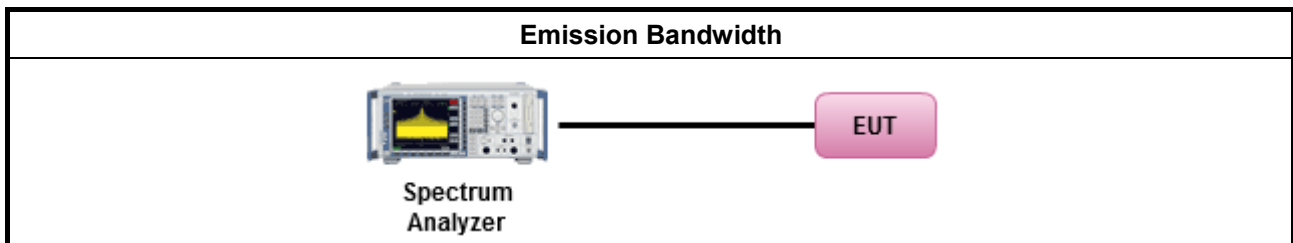
3.2.2 Measuring Instruments

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:
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 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	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

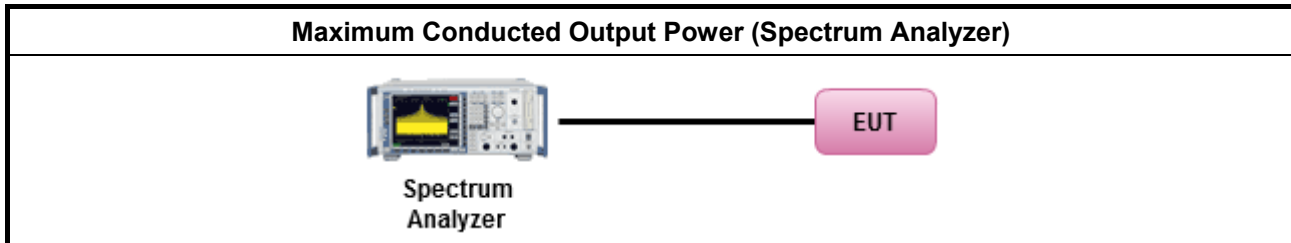
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<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 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

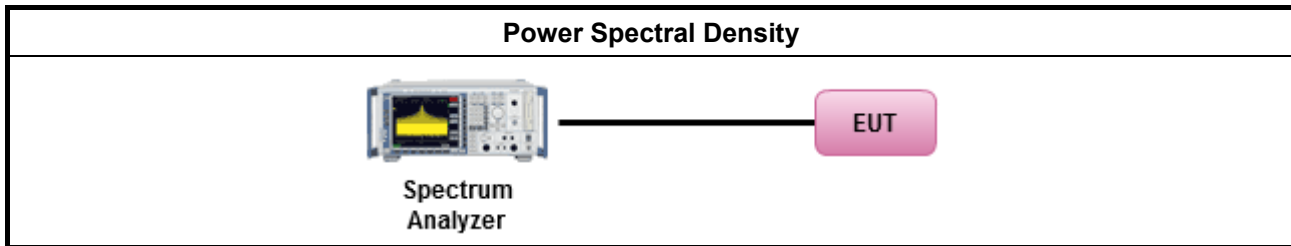
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle $\geq 98\%$ or external video / power trigger]
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3.
duty cycle $< 98\%$ and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPSD-3A. (alternative)
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
<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 (dBc)
Peak output power procedure	20
Average output power procedure	30
<p>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.</p> <p>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.</p>	

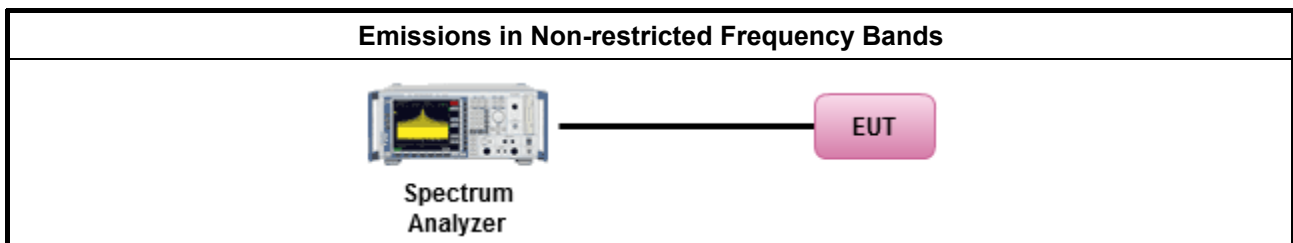
3.5.2 Measuring Instruments

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 8.5 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

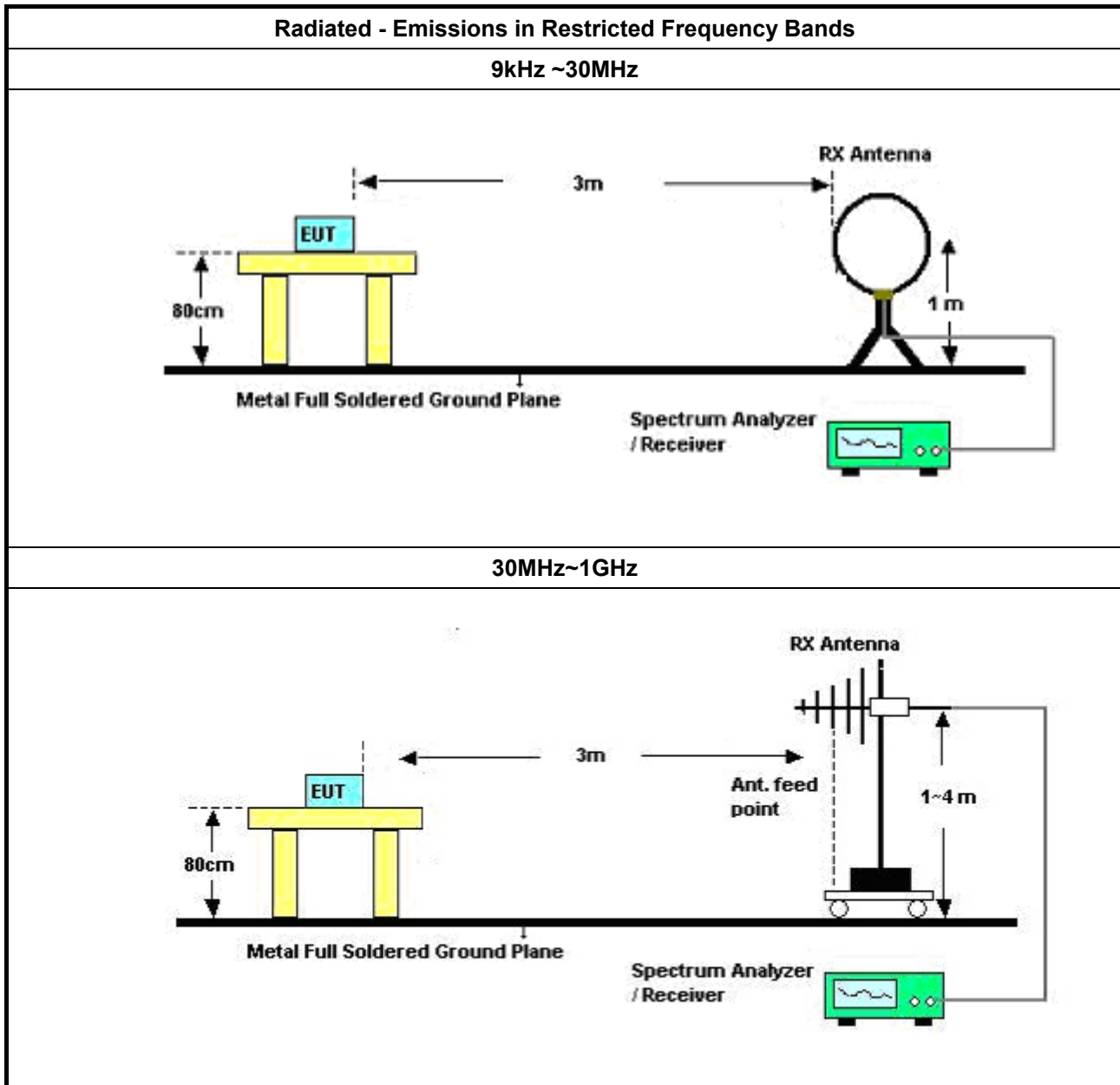
Refer a test equipment and calibration data table in this test report.

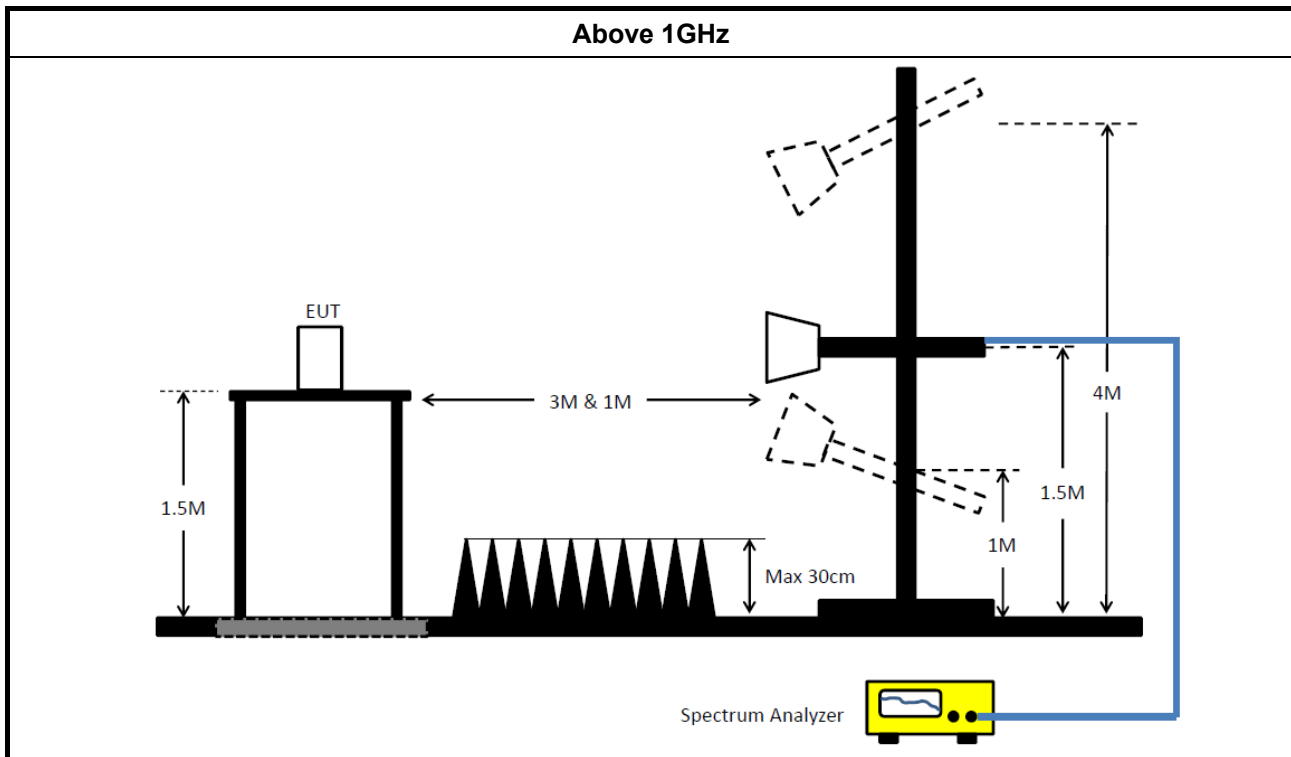


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 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 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 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 8.7 & C63.10 clause 11.13.1, 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 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.7 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 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 Emissions in Restricted Frequency Bands (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.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

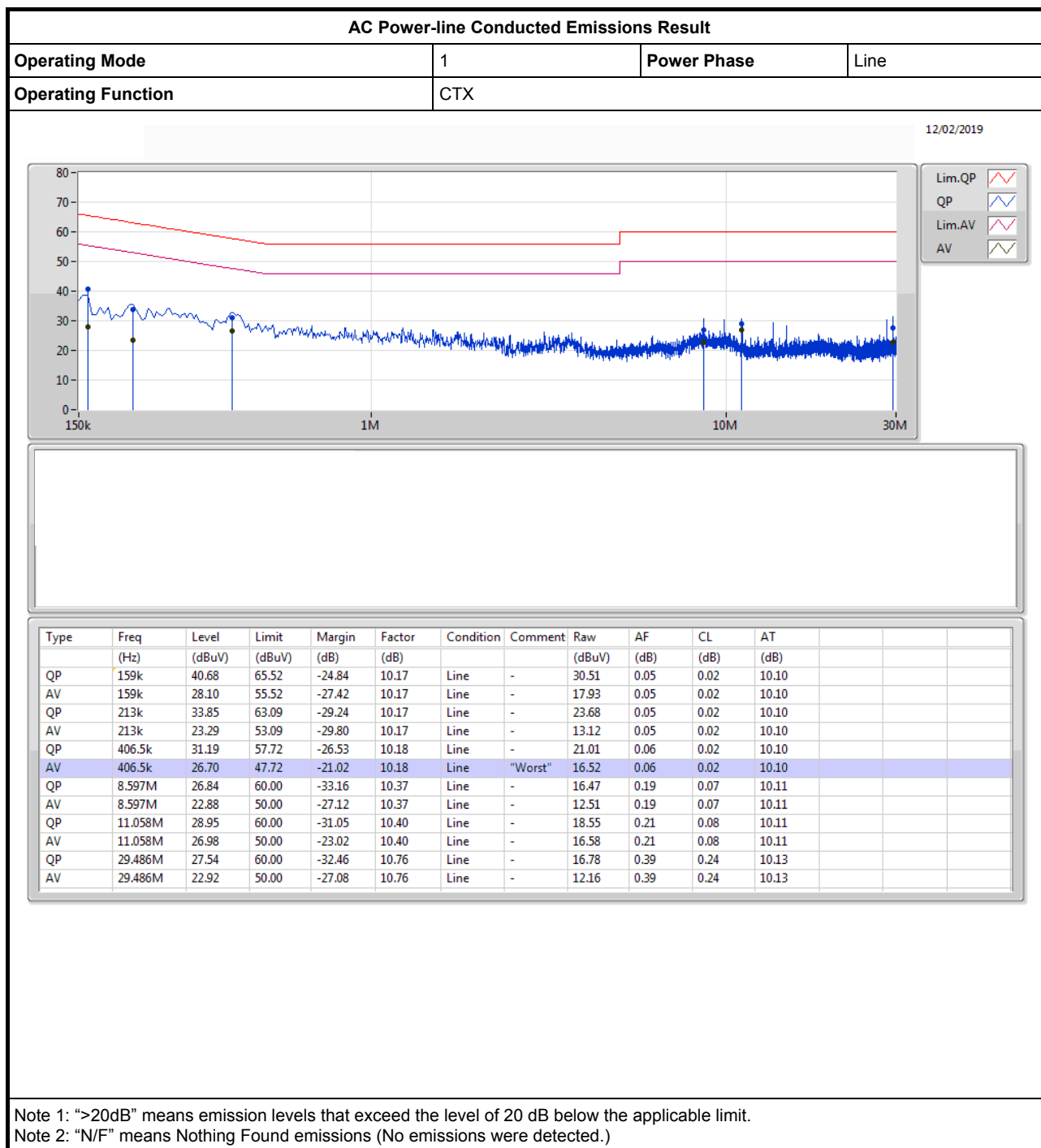
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2018	Nov. 20, 2019	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 05, 2018	Nov. 04, 2019	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 06, 2018	Nov. 05, 2019	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jun. 22, 2018	Jun. 21, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)

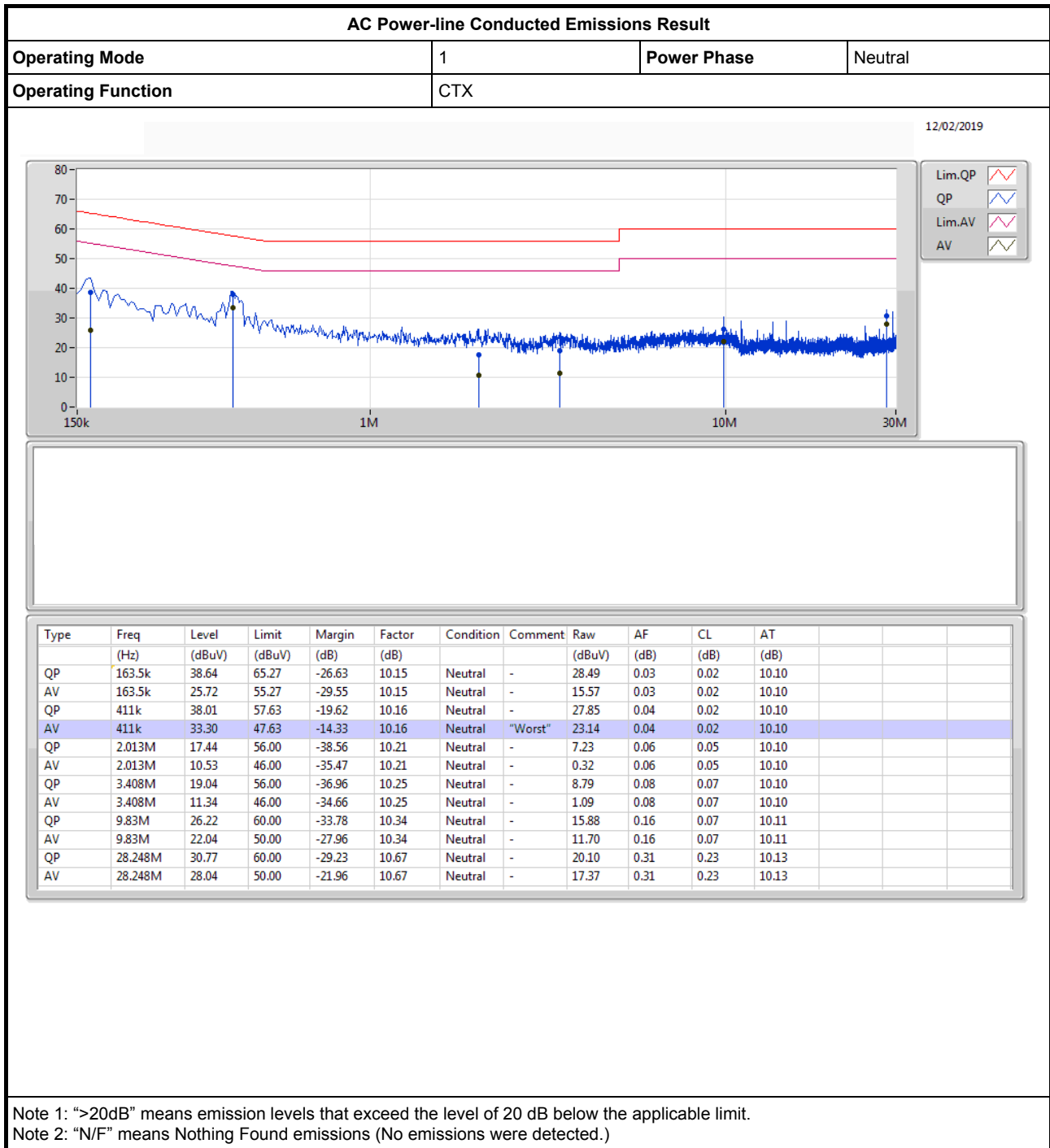


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 05, 2018	Nov. 04, 2019	Conducted (TH01-CB)

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

NCR means Non-Calibration required.





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)_1TX	10.075M	15.425M	15M4G1D	10.05M	15.1M
802.11g_Nss1,(6Mbps)_1TX	16.325M	22.325M	22M3D1D	16M	16.625M
802.11n HT20_Nss1,(MCS0)_1TX	17.55M	23.35M	23M3D1D	15.9M	17.725M
802.11n HT40_Nss1,(MCS0)_1TX	36.05M	36.6M	36M6D1D	35.1M	36.45M

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;

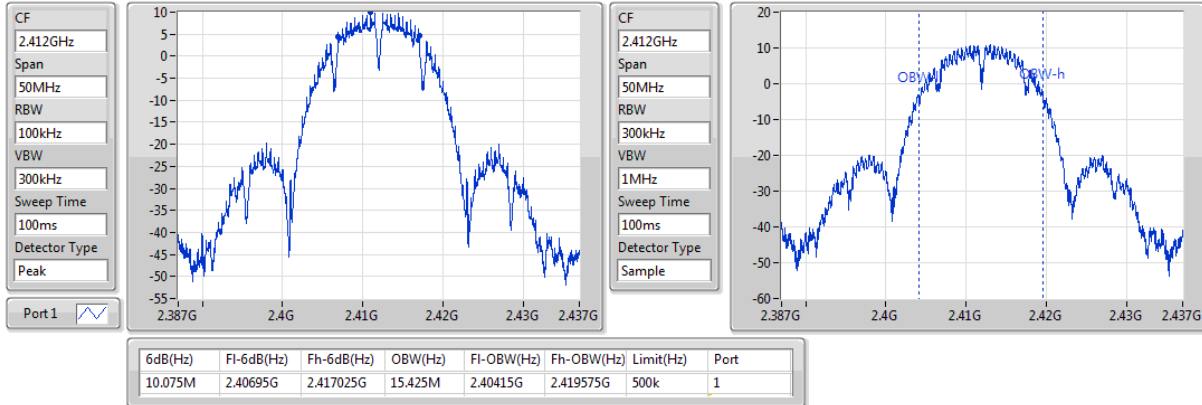
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.075M	15.425M
2437MHz	Pass	500k	10.05M	15.3M
2462MHz	Pass	500k	10.075M	15.1M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.8M
2437MHz	Pass	500k	16M	22.325M
2462MHz	Pass	500k	16.325M	16.625M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	16.65M	17.825M
2437MHz	Pass	500k	15.9M	23.35M
2462MHz	Pass	500k	17.55M	17.725M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.1M	36.55M
2437MHz	Pass	500k	36.05M	36.6M
2452MHz	Pass	500k	35.45M	36.45M

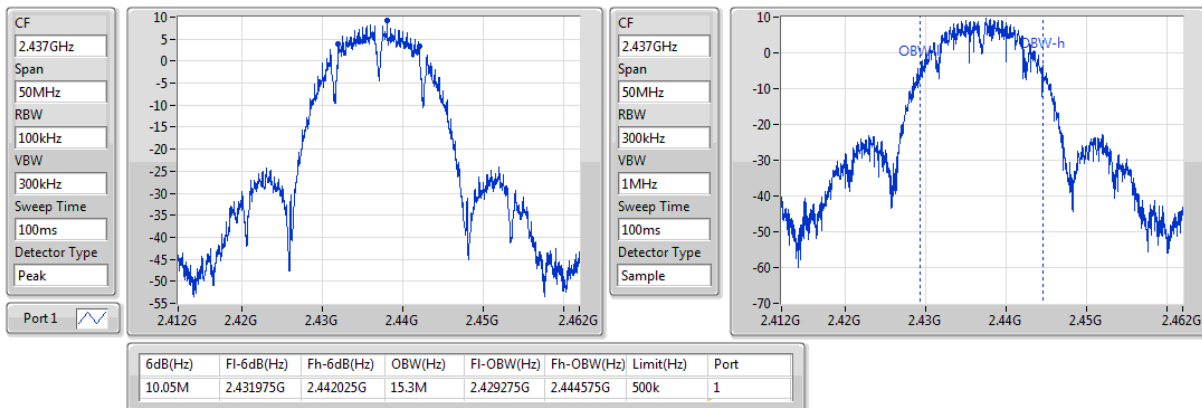
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

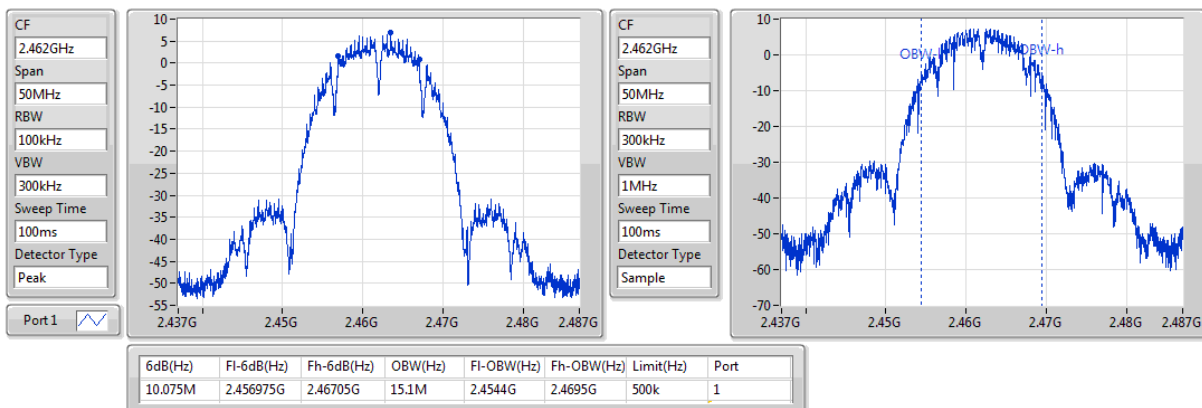
28/01/2019


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

28/01/2019

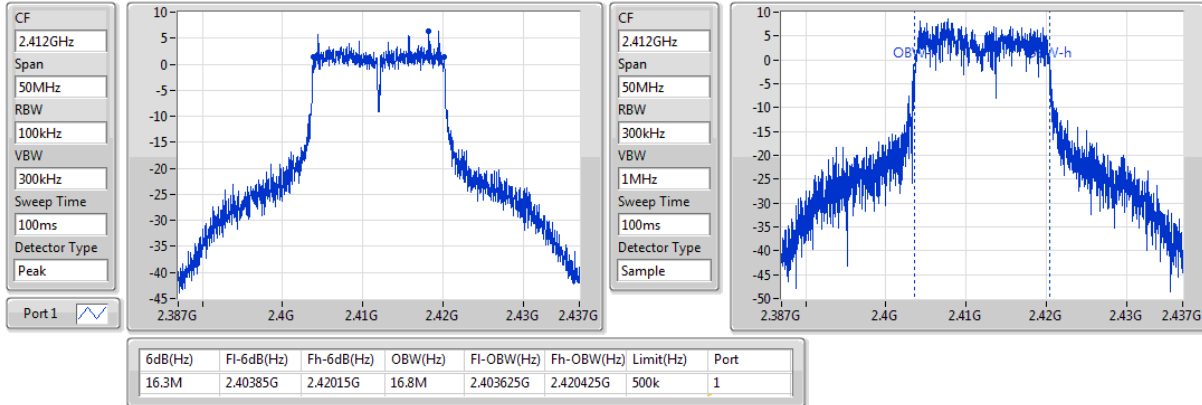

802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

28/01/2019

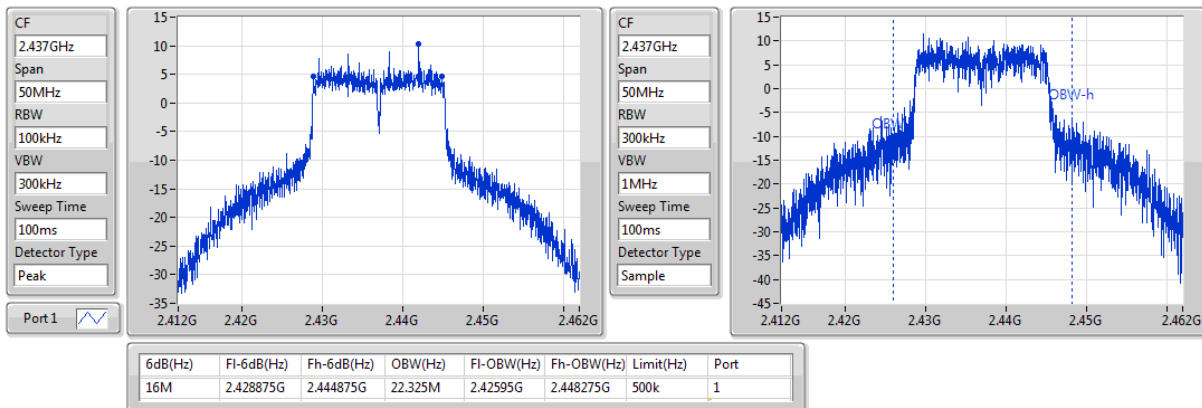


802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

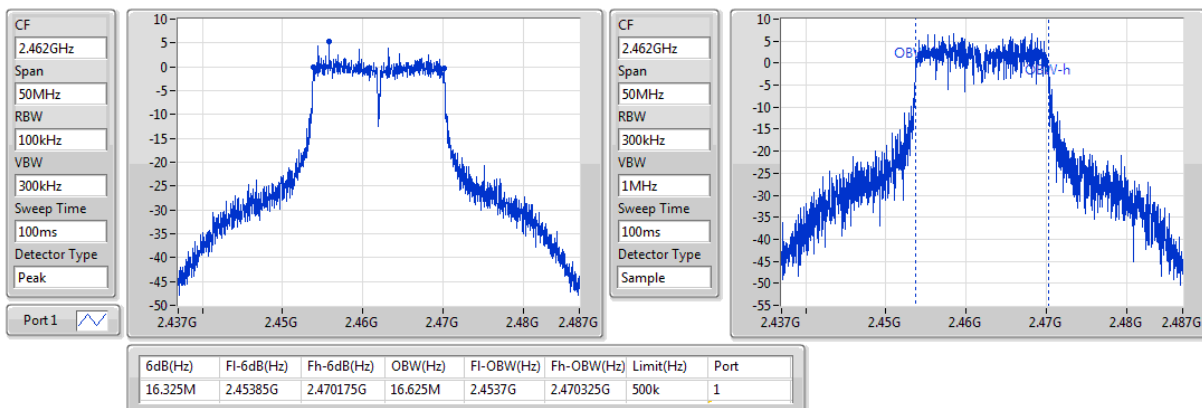
28/01/2019


802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

28/01/2019

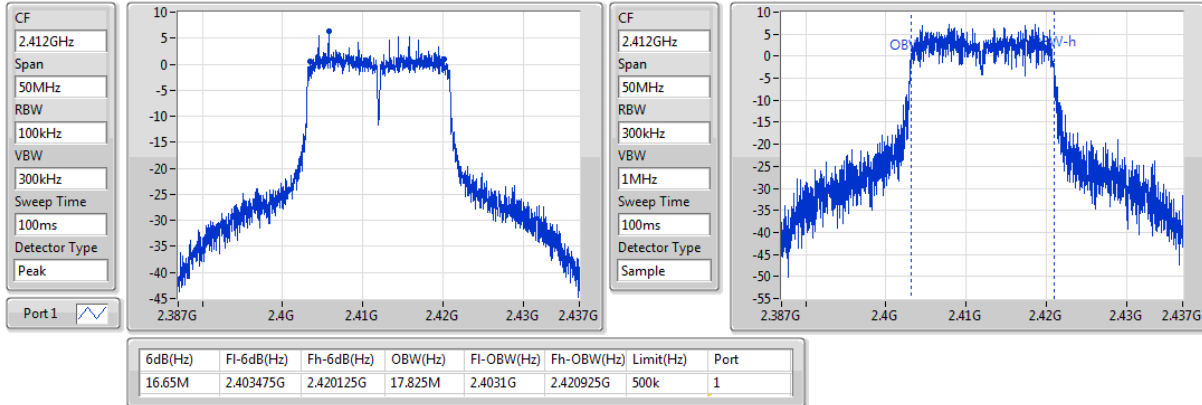

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

28/01/2019

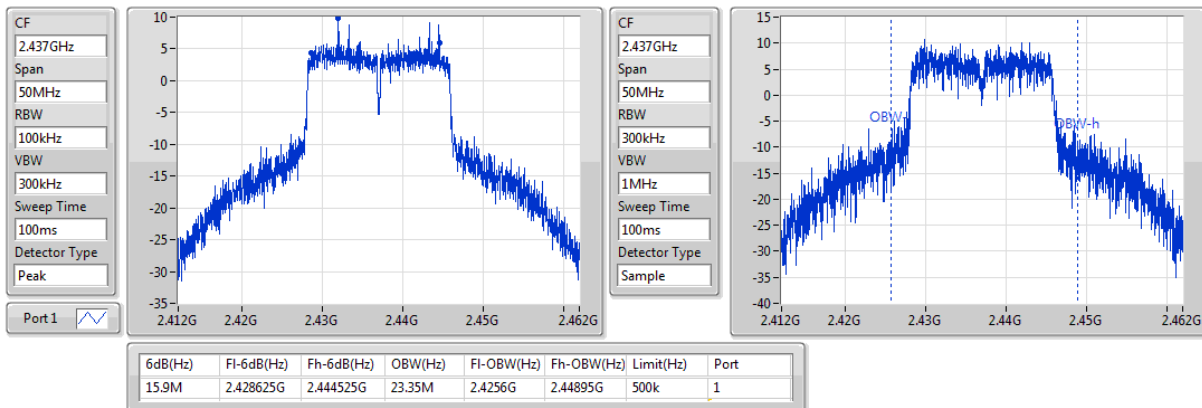


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

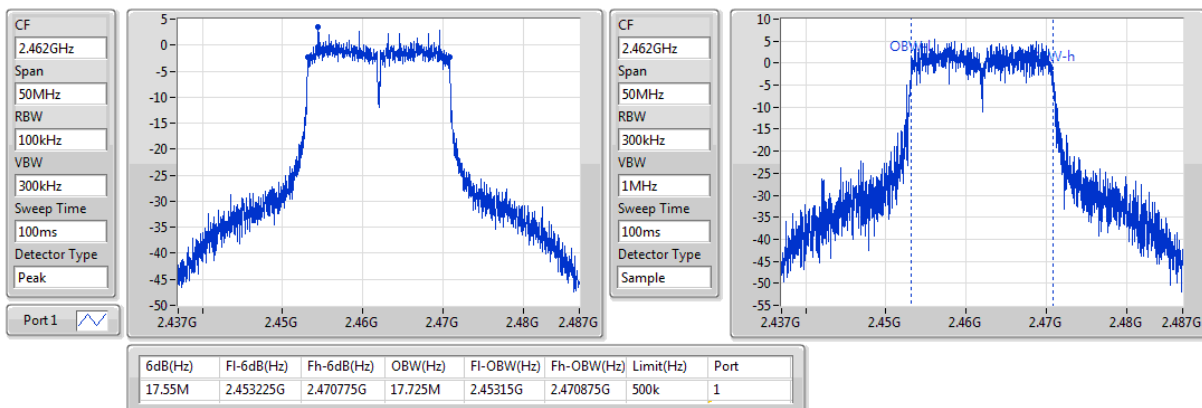
28/01/2019


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

28/01/2019

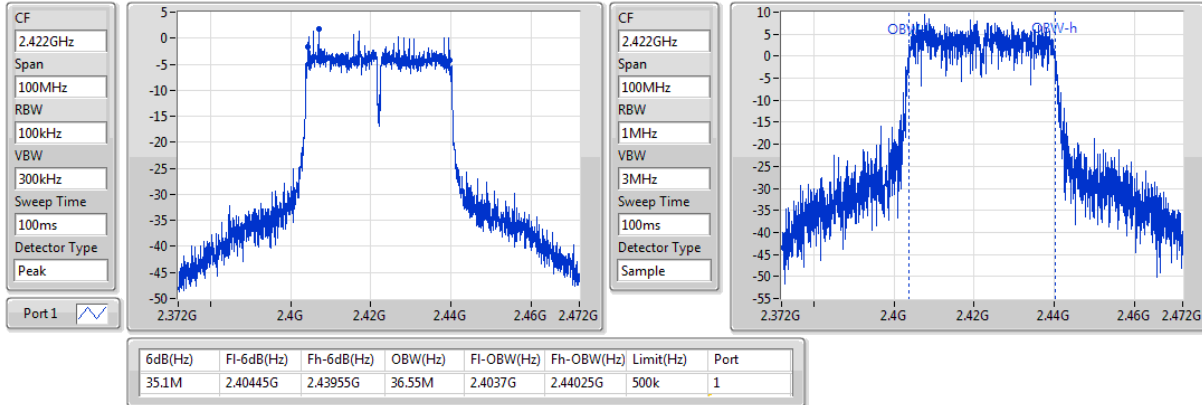

802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

28/01/2019

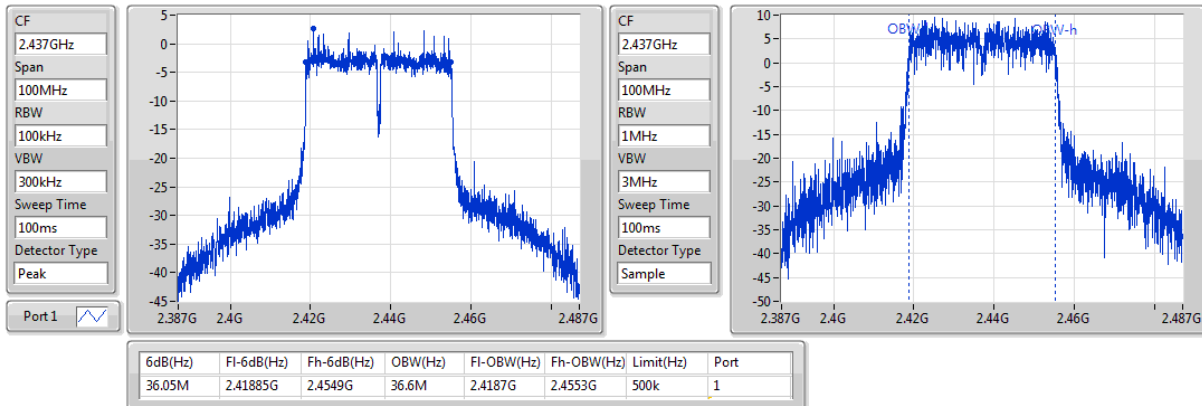


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2422MHz

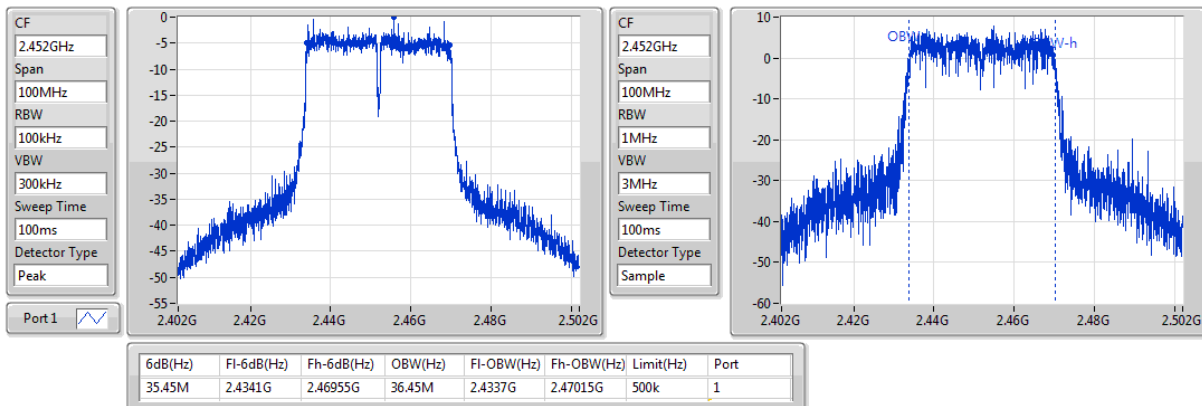
28/01/2019


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2437MHz

28/01/2019


802.11n HT40_Nss1,(MCS0)_1TX
EBW
2452MHz

28/01/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.17	0.10399
802.11g_Nss1,(6Mbps)_1TX	20.34	0.10814
802.11n HT20_Nss1,(MCS0)_1TX	20.72	0.11803
802.11n HT40_Nss1,(MCS0)_1TX	17.04	0.05058

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	20.17	20.17	30.00
2437MHz	Pass	2.00	18.80	18.80	30.00
2462MHz	Pass	2.00	16.61	16.61	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	17.99	17.99	30.00
2417MHz	Pass	2.00	20.34	20.34	30.00
2422MHz	Pass	2.00	16.63	16.63	30.00
2437MHz	Pass	2.00	20.34	20.34	30.00
2442MHz					
2447MHz	Pass	2.00	20.11	20.11	30.00
2452MHz	Pass	2.00	19.73	19.73	30.00
2457MHz	Pass	2.00	18.72	18.72	30.00
2462MHz	Pass	2.00	15.82	15.82	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	17.44	17.44	30.00
2417MHz	Pass	2.00	20.19	20.19	30.00
2422MHz	Pass	2.00	20.72	20.72	30.00
2437MHz	Pass	2.00	20.38	20.38	30.00
2447MHz	Pass	2.00	19.97	19.97	30.00
2452MHz	Pass	2.00	19.44	19.44	30.00
2457MHz	Pass	2.00	18.44	18.44	30.00
2462MHz	Pass	2.00	15.45	15.45	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.00	15.87	15.87	30.00
2427MHz	Pass	2.00	16.40	16.40	30.00
2432MHz	Pass	2.00	17.04	17.04	30.00
2437MHz	Pass	2.00	16.91	16.91	30.00
2442MHz	Pass	2.00	15.97	15.97	30.00
2447MHz	Pass	2.00	15.43	15.43	30.00
2452MHz	Pass	2.00	14.88	14.88	30.00

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

Note : Conducted average output power is for reference only

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-3.36
802.11g_Nss1,(6Mbps)_1TX	-3.25
802.11n HT20_Nss1,(MCS0)_1TX	-4.78
802.11n HT40_Nss1,(MCS0)_1TX	-11.38

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	-3.36	-3.36	8.00
2437MHz	Pass	2.00	-4.25	-4.25	8.00
2462MHz	Pass	2.00	-6.93	-6.93	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	-6.30	-6.30	8.00
2437MHz	Pass	2.00	-3.25	-3.25	8.00
2462MHz	Pass	2.00	-8.96	-8.96	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.00	-8.30	-8.30	8.00
2437MHz	Pass	2.00	-4.78	-4.78	8.00
2462MHz	Pass	2.00	-10.20	-10.20	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.00	-12.78	-12.78	8.00
2437MHz	Pass	2.00	-11.38	-11.38	8.00
2442MHz	Pass	2.00	-12.21	-12.21	8.00
2452MHz	Pass	2.00	-12.72	-12.72	8.00

DG = Directional Gain; RBW=3kHz;

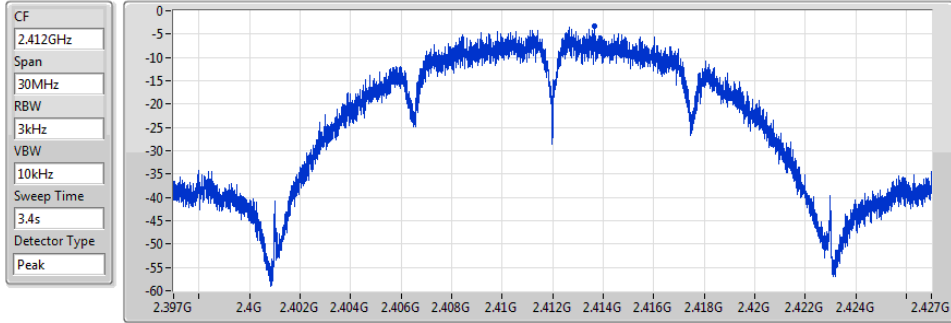
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

28/01/2019



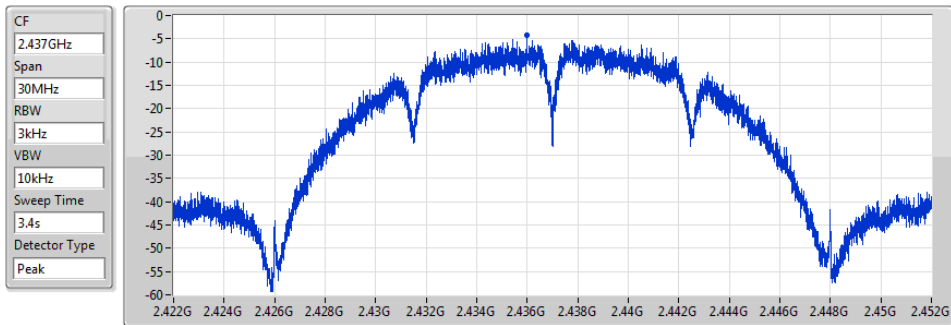
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.36	-3.36	-3.36

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

28/01/2019



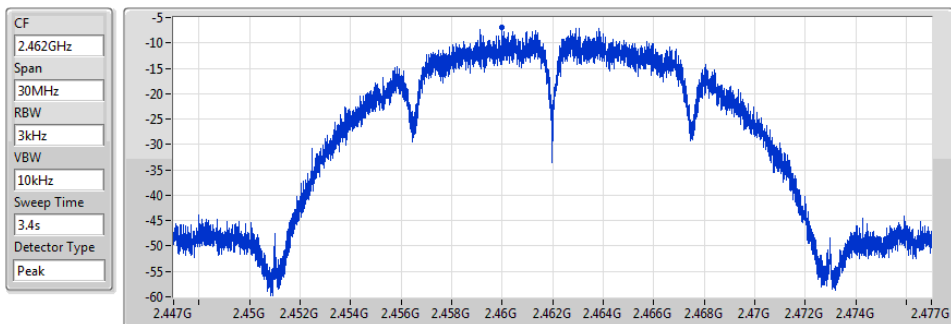
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.25	-4.25	-4.25

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

28/01/2019



Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.93	-6.93	-6.93

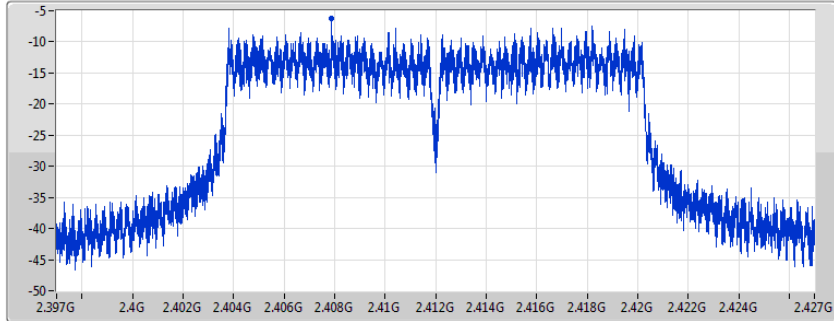
802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

28/01/2019

CF
2.412GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
3.4s
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.30	-6.30	-6.30

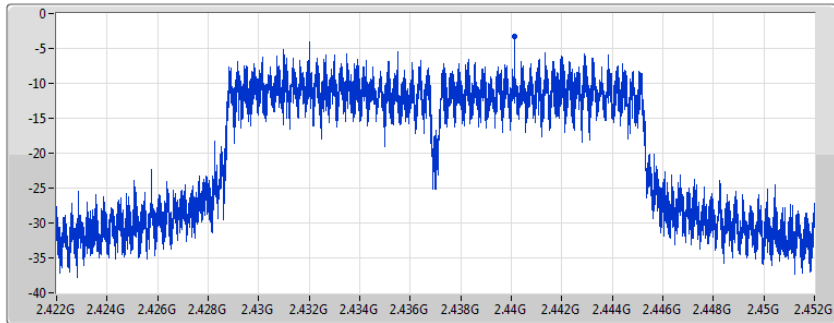
802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

28/01/2019

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
3.4s
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.25	-3.25	-3.25

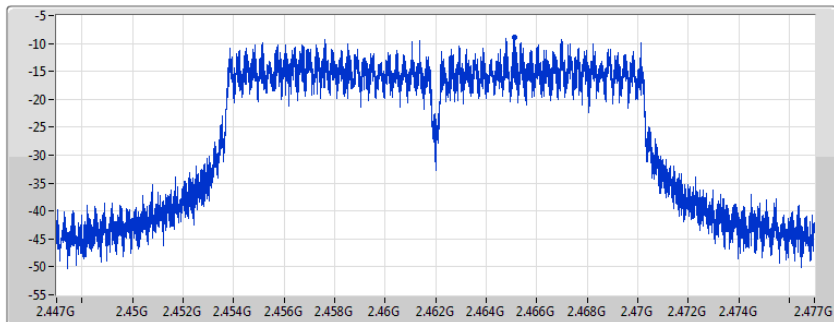
802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

28/01/2019

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
3.4s
Detector Type
Peak



Port 1

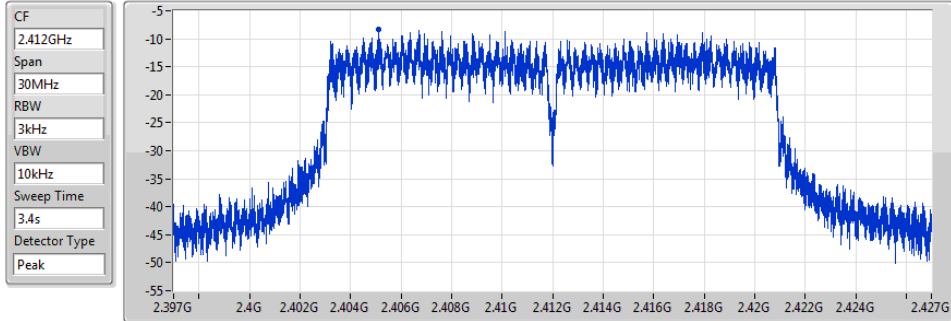
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.96	-8.96	-8.96

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

28/01/2019



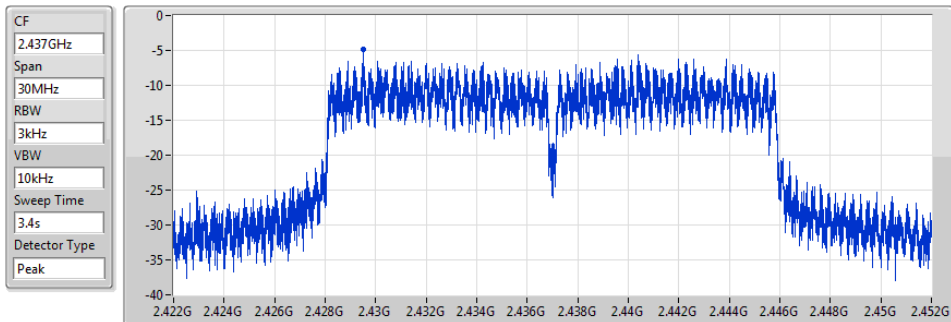
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.30	-8.30	-8.30

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

28/01/2019



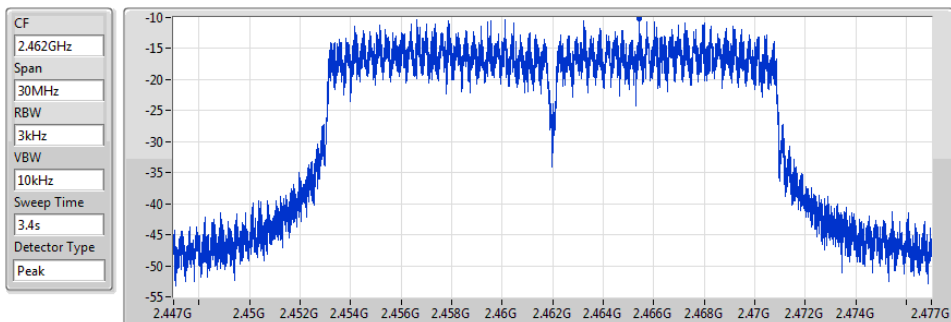
Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.78	-4.78	-4.78

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

28/01/2019



Sum	PD	Port1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.20	-10.20	-10.20

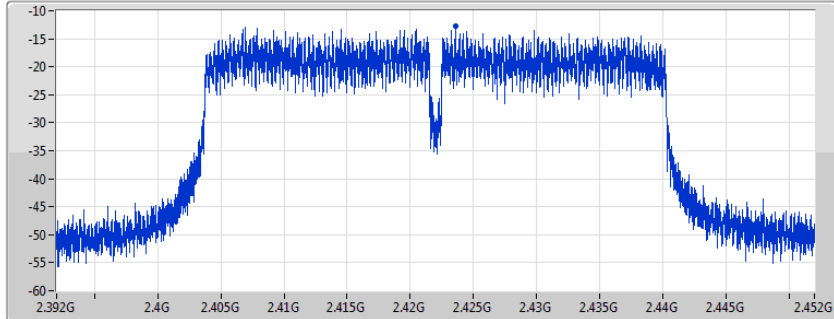
802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

28/01/2019

CF
2.422GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
6.8s
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.78	-12.78	-12.78

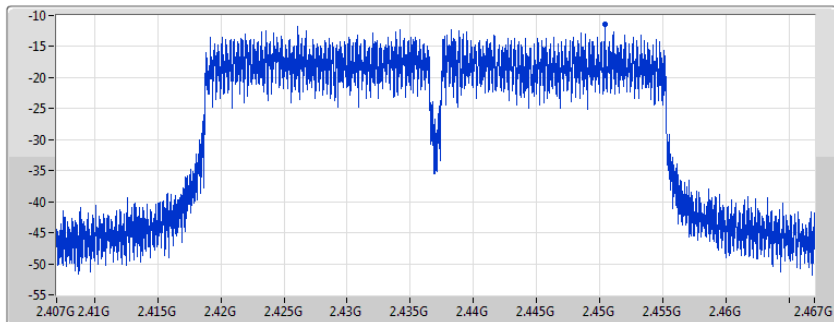
802.11n HT40_Nss1,(MCS0)_1TX

PSD

2437MHz

28/01/2019

CF
2.437GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
6.8s
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.38	-11.38	-11.38

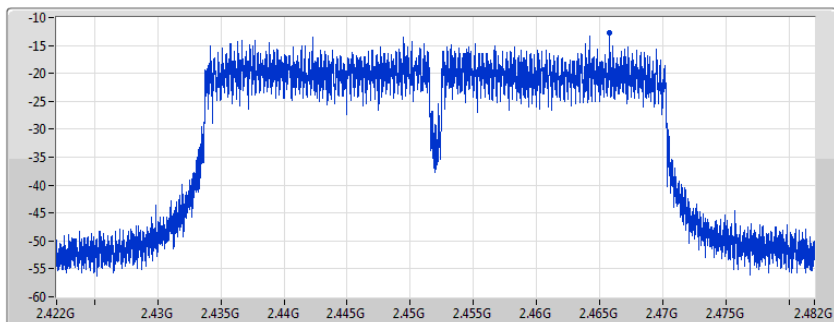
802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz

28/01/2019

CF
2.452GHz
Span
60MHz
RBW
3kHz
VBW
10kHz
Sweep Time
6.8s
Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.72	-12.72	-12.72

Summary

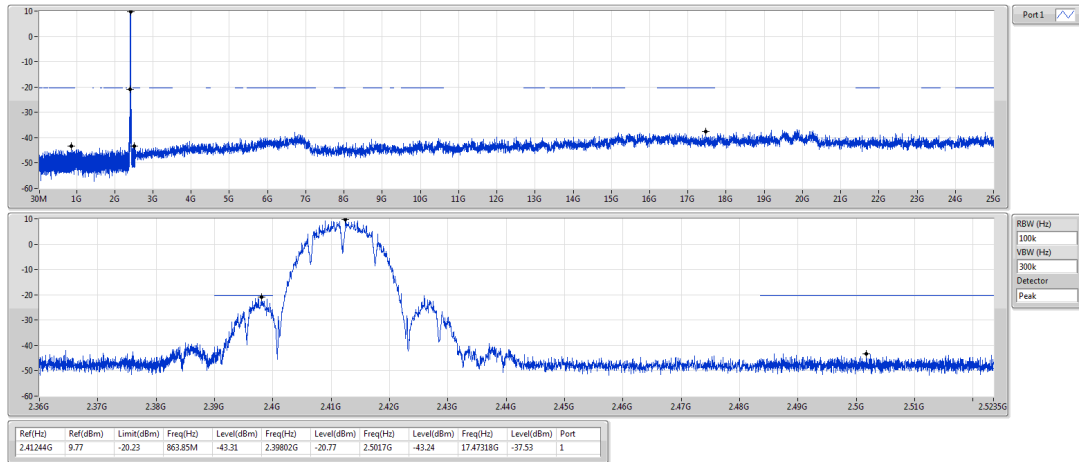
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41244G	9.77	-20.23	863.85M	-43.31	2.39802G	-20.77	2.5017G	-43.24	17.47318G	-37.53	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.4395G	8.89	-21.11	947.73M	-43.88	2.39954G	-21.46	2.50158G	-42.38	16.39993G	-37.41	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.44325G	8.97	-21.03	2.09409G	-44.12	2.39828G	-22.33	2.49914G	-43.18	16.44207G	-37.64	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.42196G	3.12	-26.88	890.75M	-44.14	2.39848G	-28.26	2.48362G	-43.10	16.4573G	-37.61	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41244G	9.77	-20.23	863.85M	-43.31	2.39802G	-20.77	2.5017G	-43.24	17.47318G	-37.53	1
2437MHz	Pass	2.41244G	9.77	-20.23	1.61993G	-44.14	2.39598G	-43.12	2.509G	-43.07	16.82417G	-37.12	1
2462MHz	Pass	2.41244G	9.77	-20.23	1.83488G	-43.35	2.39058G	-44.08	2.48478G	-42.85	15.07663G	-37.59	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	8.89	-21.11	947.73M	-43.88	2.39954G	-21.46	2.50158G	-42.38	16.39993G	-37.41	1
2437MHz	Pass	2.4395G	8.89	-21.11	923.26M	-44.15	2.39864G	-38.05	2.48604G	-40.19	16.47579G	-37.28	1
2462MHz	Pass	2.4395G	8.89	-21.11	2.11419G	-43.73	2.39616G	-44.21	2.48366G	-34.66	17.07984G	-37.87	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44325G	8.97	-21.03	2.09409G	-44.12	2.39828G	-22.33	2.49914G	-43.18	16.44207G	-37.64	1
2437MHz	Pass	2.44325G	8.97	-21.03	2.1436G	-44.27	2.39668G	-37.76	2.48486G	-38.90	14.81253G	-37.18	1
2462MHz	Pass	2.44325G	8.97	-21.03	1.78799G	-43.67	2.39718G	-43.85	2.48448G	-35.29	15.24801G	-37.38	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42196G	3.12	-26.88	890.75M	-44.14	2.39848G	-28.26	2.48362G	-43.10	16.4573G	-37.61	1
2437MHz	Pass	2.42196G	3.12	-26.88	1.64216G	-44.14	2.39964G	-29.81	2.48354G	-36.46	15.23171G	-37.03	1
2452MHz	Pass	2.42196G	3.12	-26.88	1.8912G	-44.12	2.39268G	-44.09	2.48362G	-32.72	15.15318G	-38.05	1

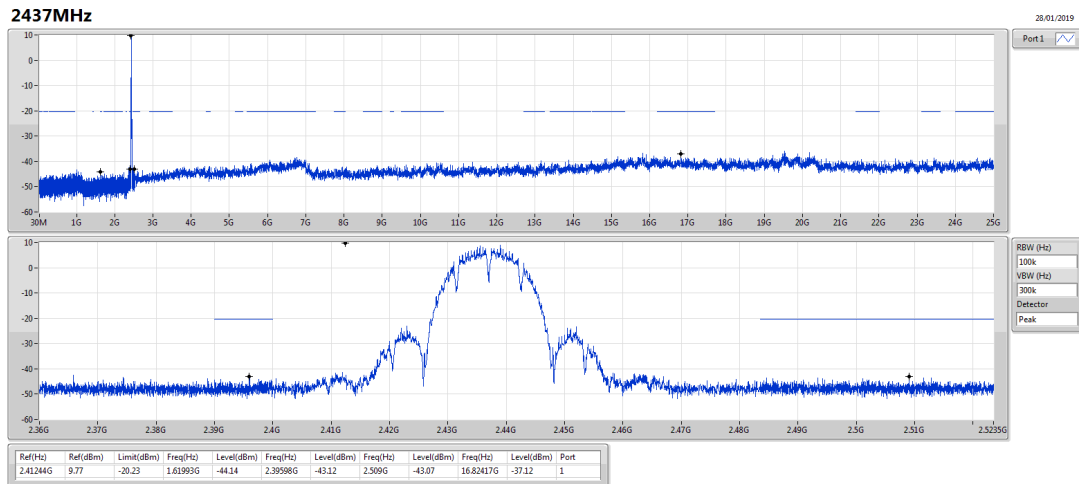
802.11b_Nss1,(1Mbps)_1TX
2412MHz

CSE NdB



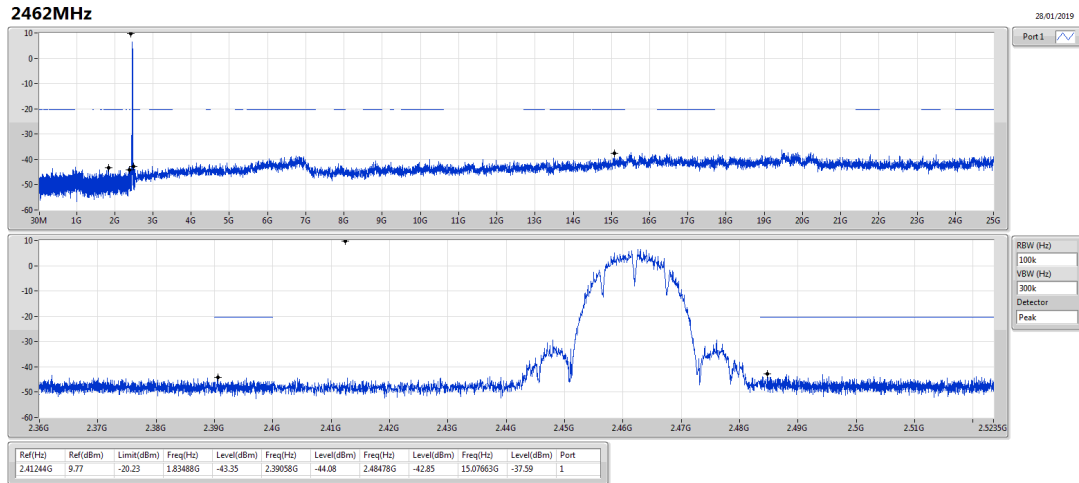
802.11b_Nss1,(1Mbps)_1TX
2437MHz

CSE NdB



802.11b_Nss1,(1Mbps)_1TX
2462MHz

CSE NdB



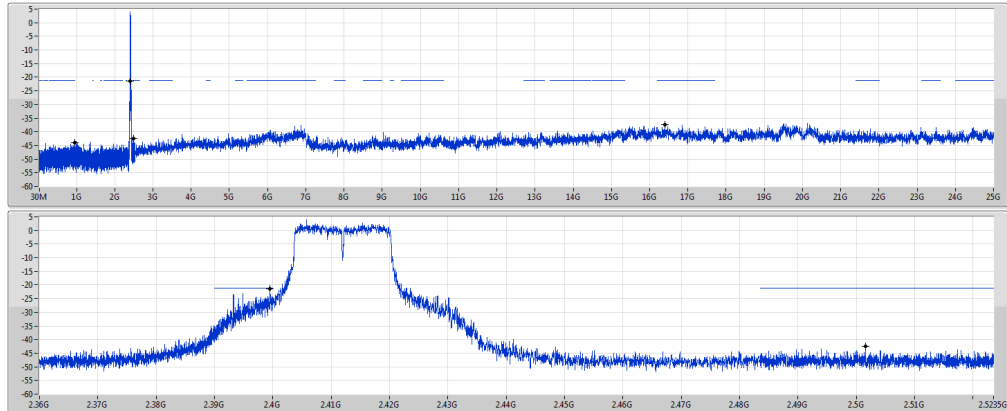
802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSE NdB

28.01.2019

Port 1



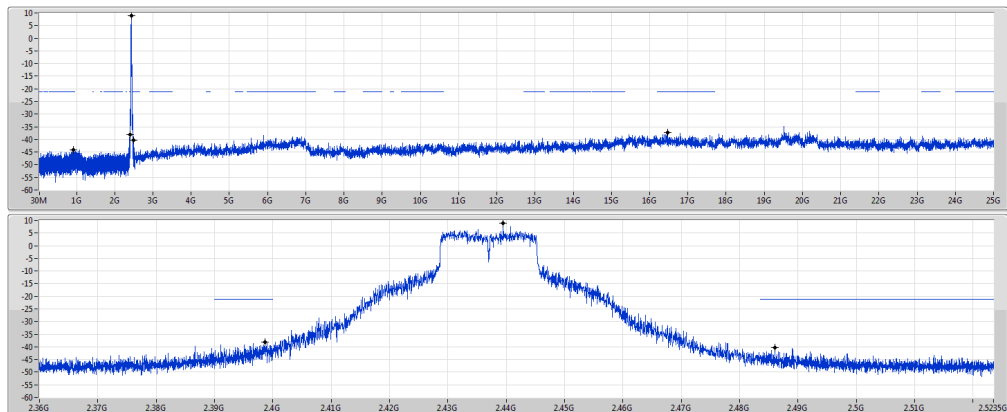
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSE NdB

28.01.2019

Port 1



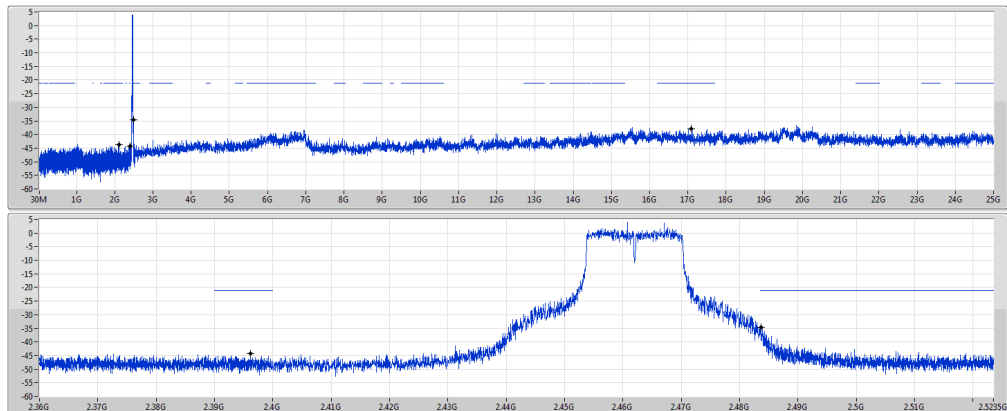
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSE NdB

28.01.2019

Port 1



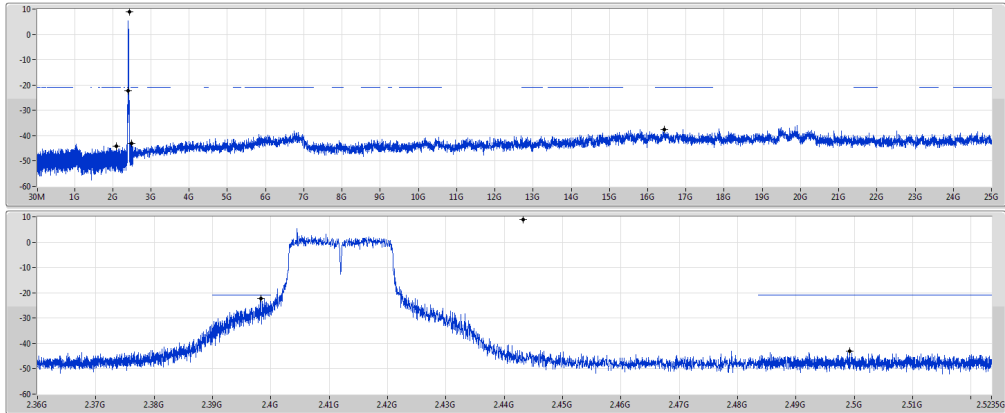
802.11n HT20_Nss1,(MCS0)_1TX

2412MHz

CSE NdB

28.01.2019

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244325G	8.97	-21.03	2.09409G	-44.12	2.39828G	-22.33	2.49914G	-43.18	16.44207G	-37.64	1

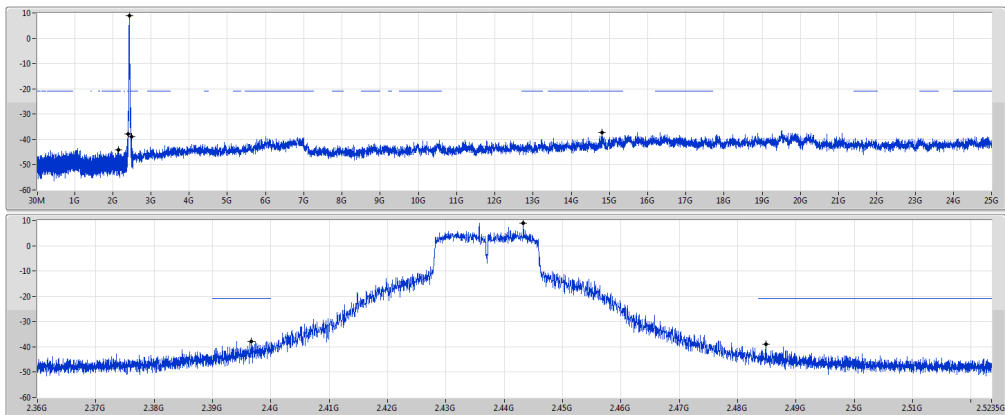
802.11n HT20_Nss1,(MCS0)_1TX

2437MHz

CSE NdB

28.01.2019

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244325G	8.97	-21.03	2.1436G	-44.27	2.39668G	-37.76	2.48486G	-38.90	14.81253G	-37.18	1

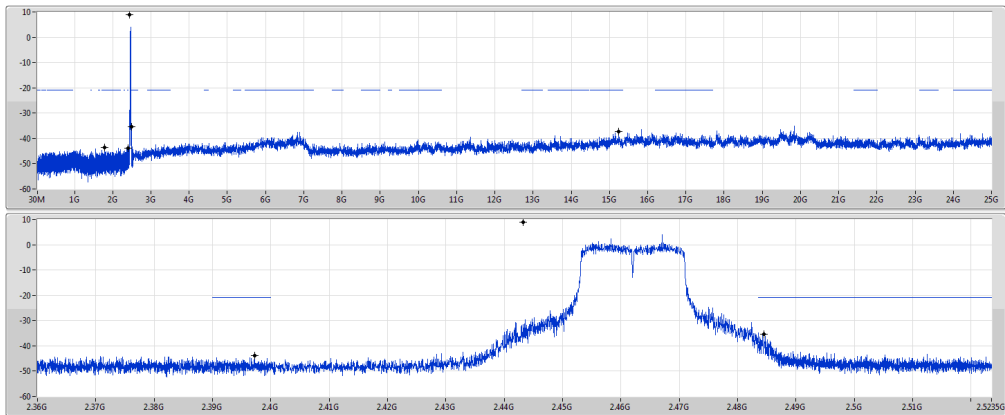
802.11n HT20_Nss1,(MCS0)_1TX

2462MHz

CSE NdB

28.01.2019

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
244325G	8.97	-21.03	1.78799G	-43.67	2.39716G	-43.85	2.48449G	-35.29	15.24001G	-37.38	1

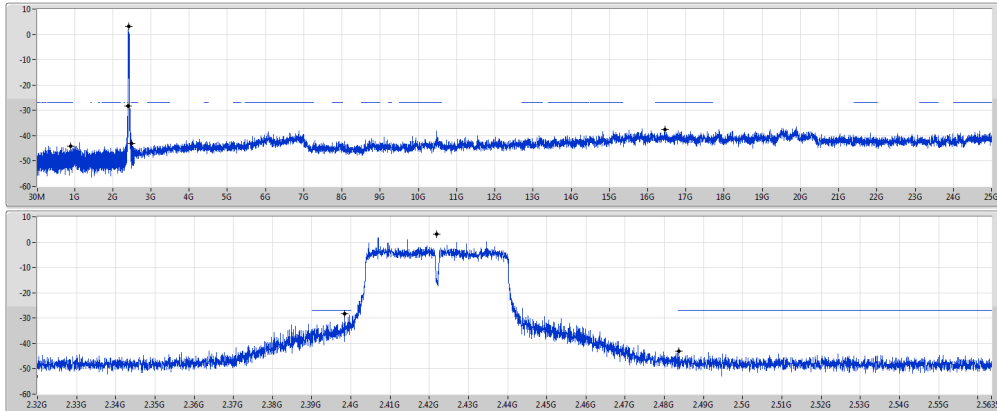
802.11n HT40_Nss1,(MCS0)_1TX

2422MHz

CSE NdB

28/01/2019

Port 1



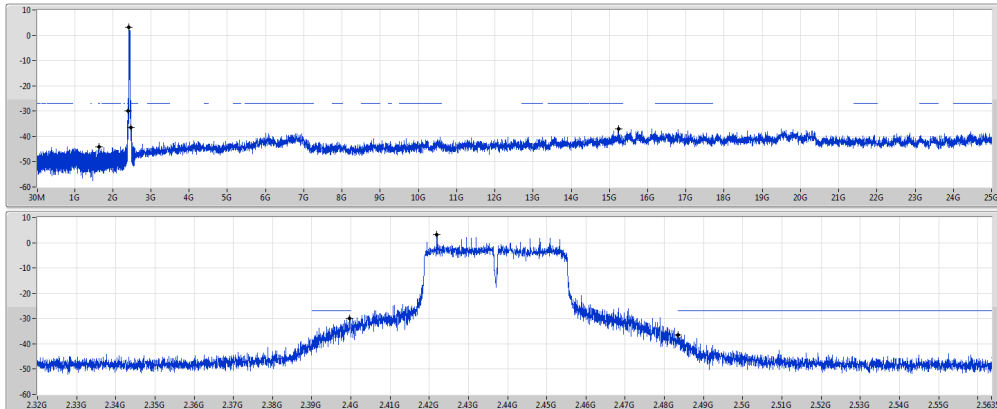
802.11n HT40_Nss1,(MCS0)_1TX

2437MHz

CSE NdB

28/01/2019

Port 1



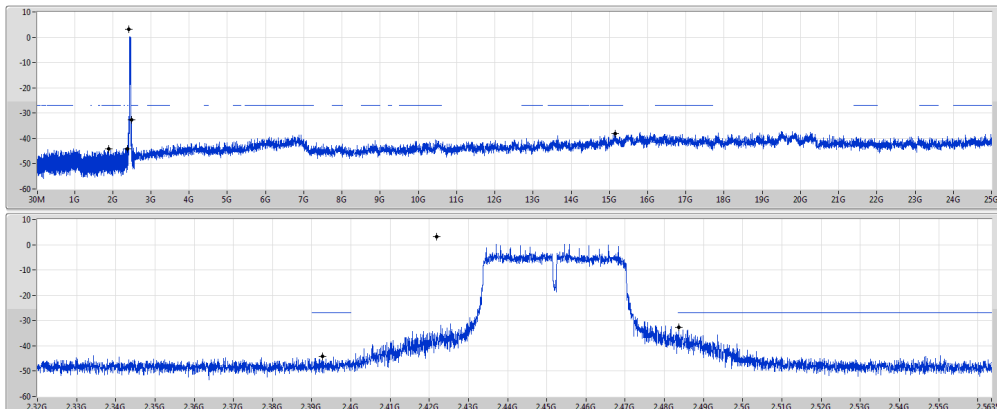
802.11n HT40_Nss1,(MCS0)_1TX

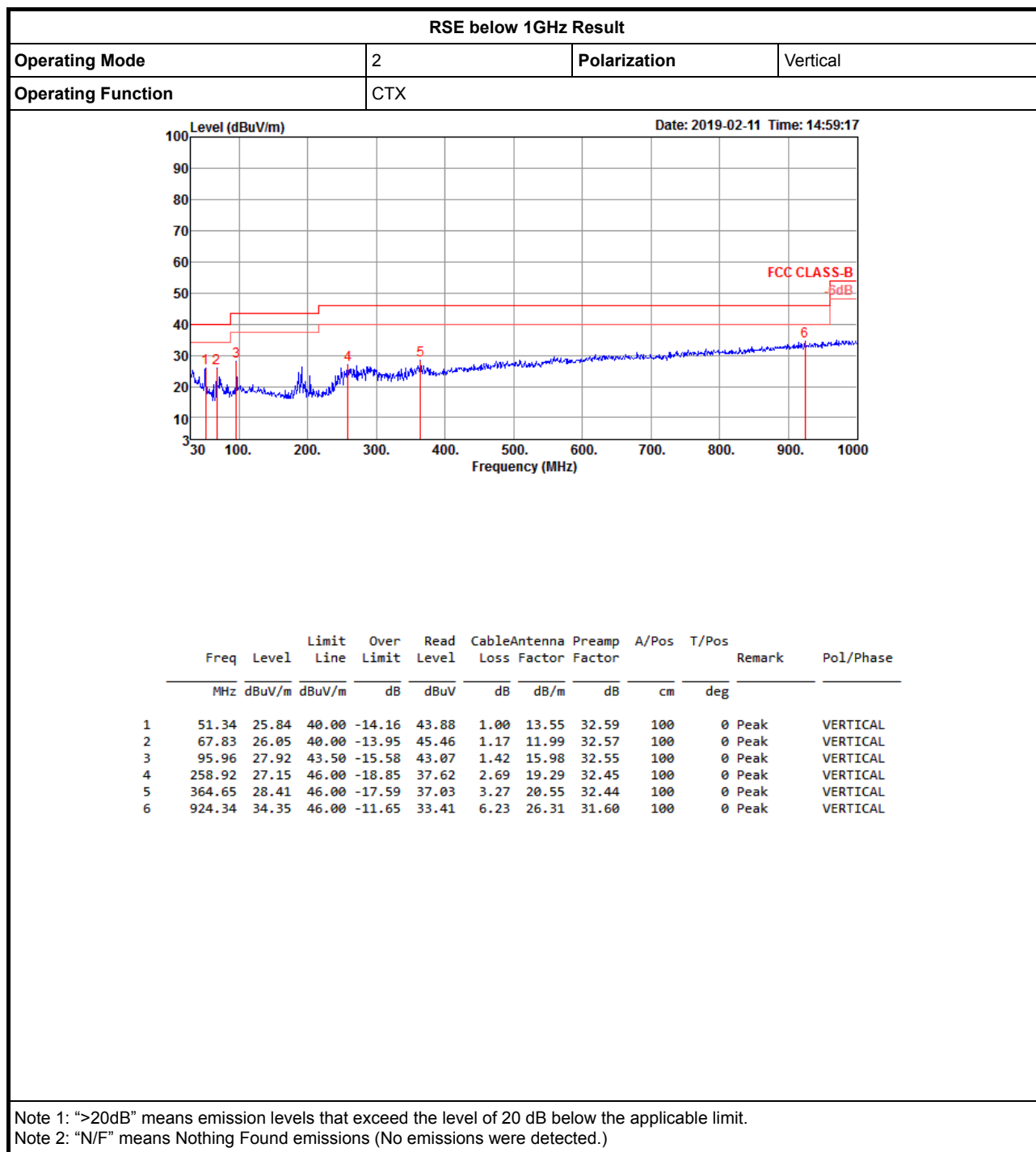
2452MHz

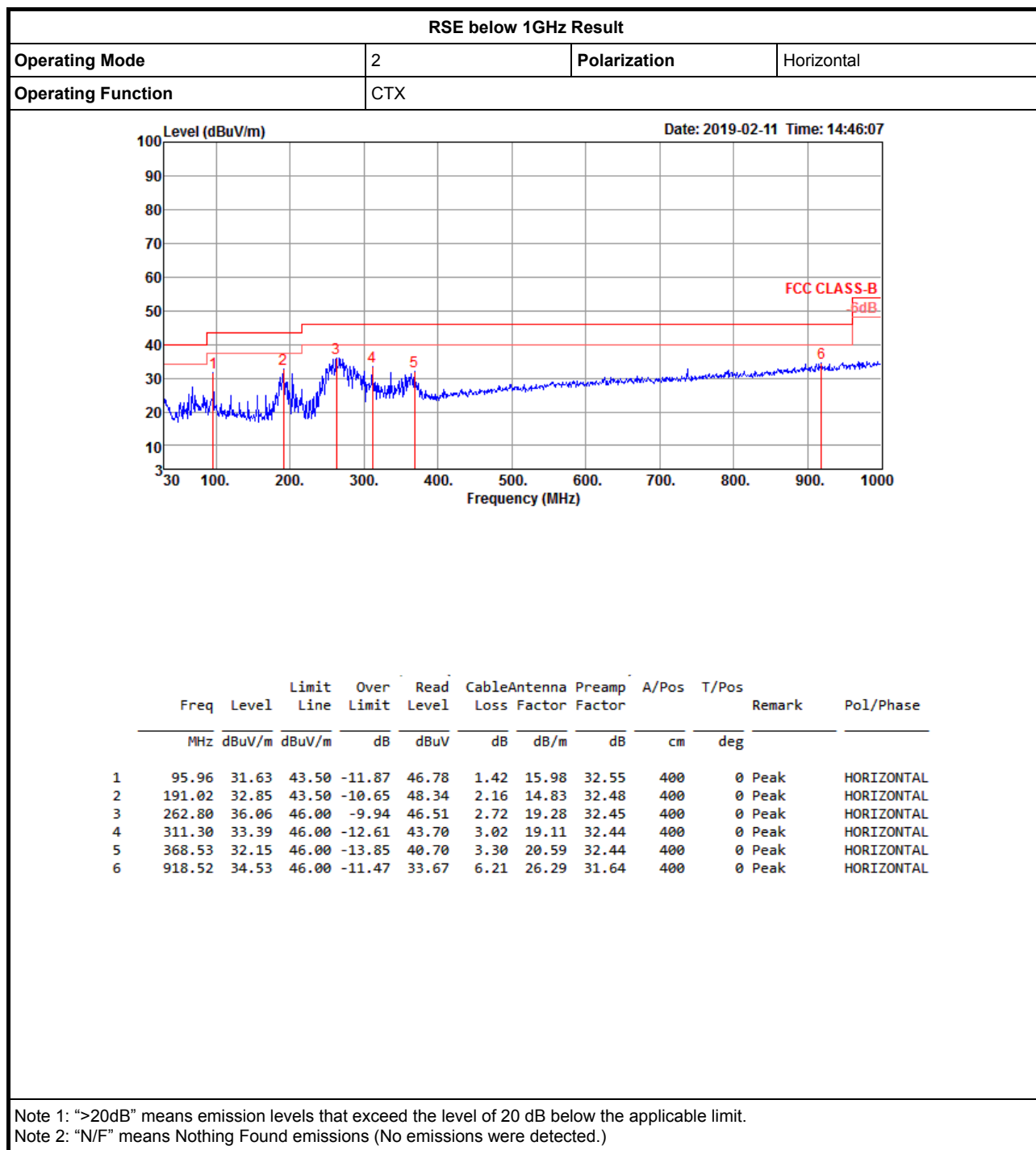
CSE NdB

28/01/2019

Port 1









RSE TX above 1GHz Result

Appendix F.2

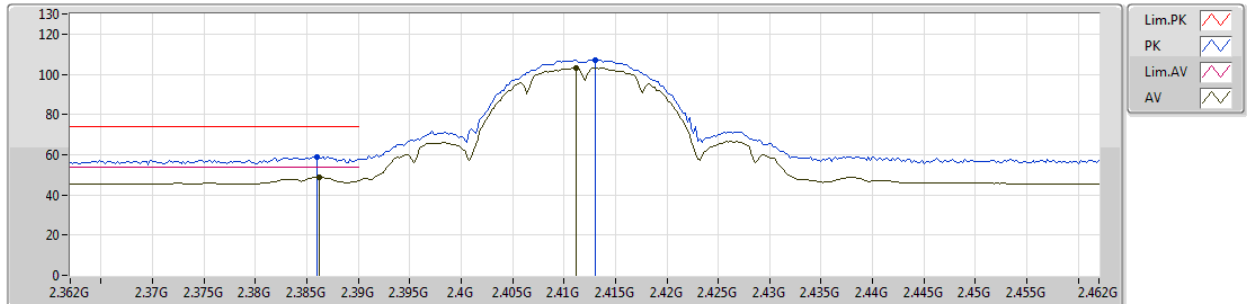
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.87402G	53.97	54.00	-0.03	5.51	3	Horizontal	53	1.00	-

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2412MHz_TX



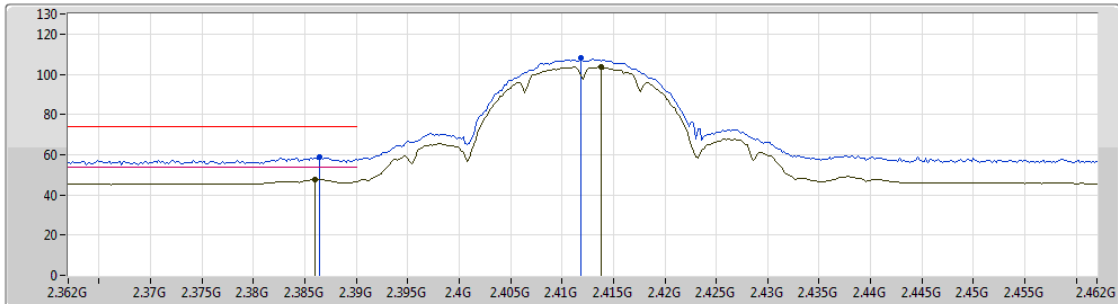
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
PK	2.386G	59.11	74.00	-14.89	34.05	3	Vertical	342	1.25	-								
AV	2.3862G	48.97	54.00	-5.03	34.05	3	Vertical	342	1.25	-								
PK	2.413G	107.26	Inf	-Inf	34.05	3	Vertical	342	1.25	-								
AV	2.4112G	103.13	Inf	-Inf	34.05	3	Vertical	342	1.25	-								

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2412MHz_TX



Lim.PK
PK
Lim_AV
AV

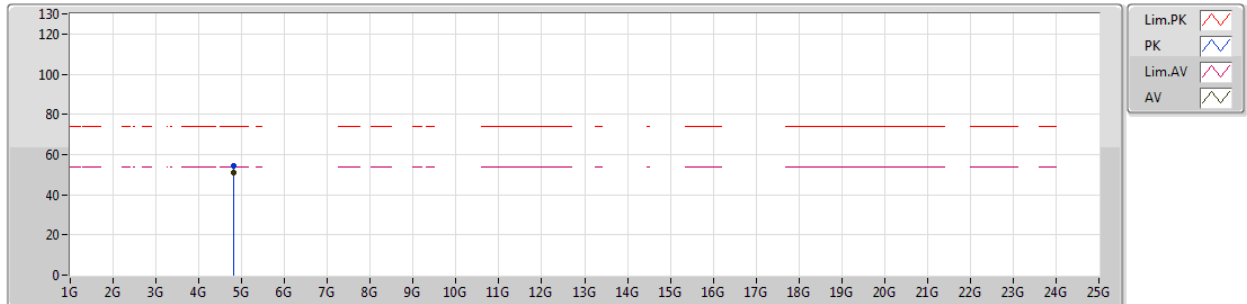
EUT_Z_1TX
Setting 48
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3864G	58.81	74.00	-15.19	34.05	3	Horizontal	90	1.52	-
AV	2.386G	47.87	54.00	-6.13	34.05	3	Horizontal	90	1.52	-
PK	2.4118G	107.90	Inf	-Inf	34.05	3	Horizontal	90	1.52	-
AV	2.4138G	103.49	Inf	-Inf	34.05	3	Horizontal	90	1.52	-

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2412MHz_TX



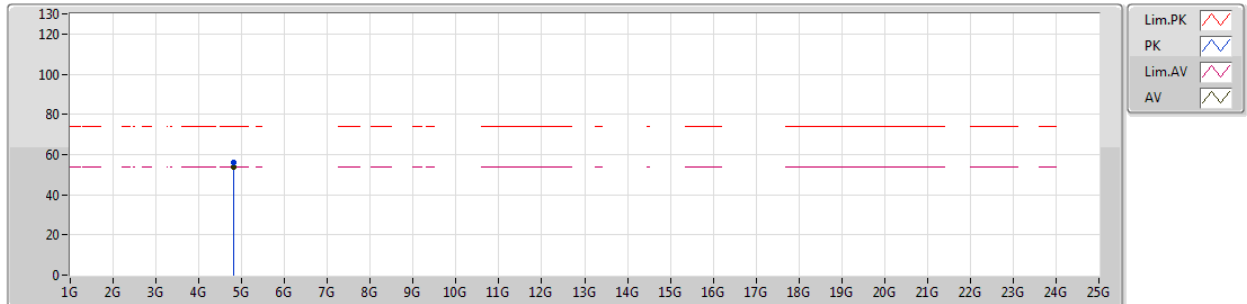
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.82412G	54.60	74.00	-19.40	5.32	3	Vertical	290	1.04	-						
AV	4.82402G	51.13	54.00	-2.87	5.32	3	Vertical	290	1.04	-						

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2412MHz_TX



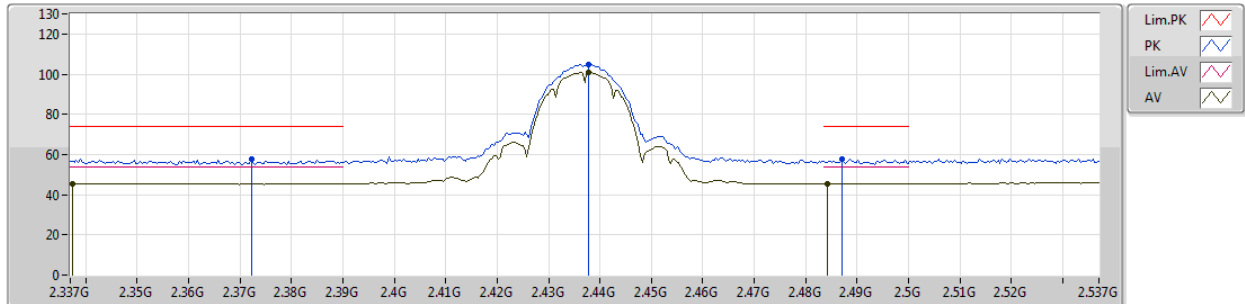
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.8241G	56.25	74.00	-17.75	5.32	3	Horizontal	50	1.06	-						
AV	4.82402G	53.86	54.00	-0.14	5.32	3	Horizontal	50	1.06	-						

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2437MHz_TX



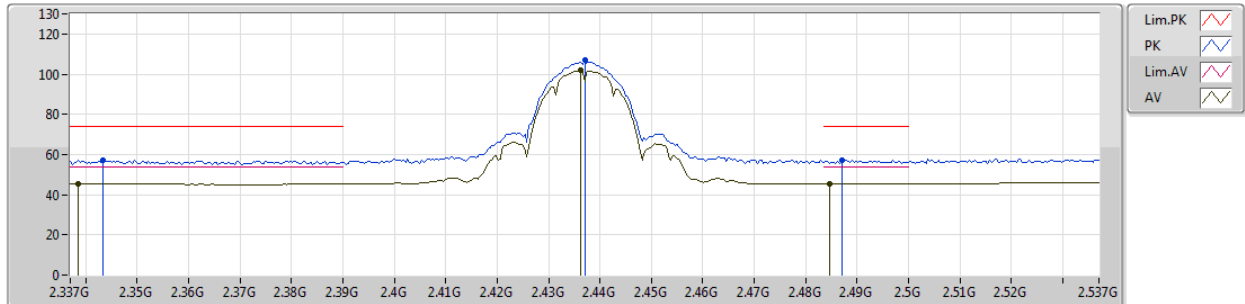
EUT_Z_1TX
Setting 46
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3722G	57.89	74.00	-16.11	34.04	3	Vertical	343	1.01	-
AV	2.3374G	45.55	54.00	-8.45	34.03	3	Vertical	343	1.01	-
PK	2.4378G	104.85	Inf	-Inf	34.06	3	Vertical	343	1.01	-
AV	2.4378G	100.76	Inf	-Inf	34.06	3	Vertical	343	1.01	-
PK	2.487G	57.67	74.00	-16.33	34.07	3	Vertical	343	1.01	-
AV	2.4842G	45.49	54.00	-8.51	34.07	3	Vertical	343	1.01	-

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2437MHz_TX



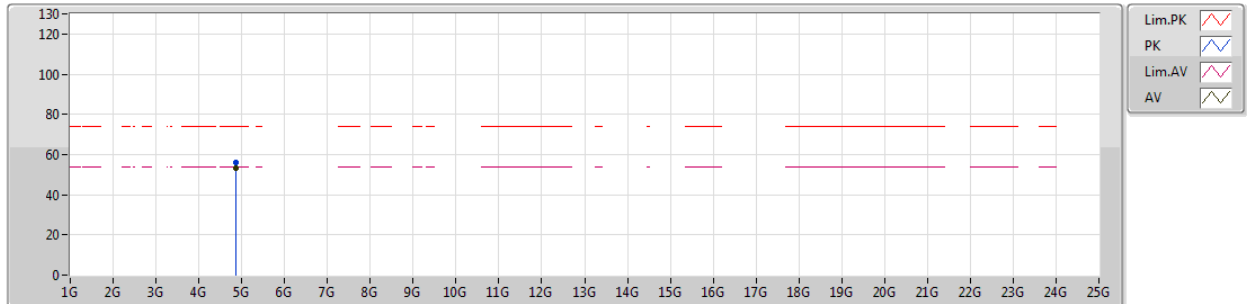
EUT_Z_1TX
Setting 46
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3434G	57.15	74.00	-16.85	34.03	3	Horizontal	97	1.89	-
AV	2.3386G	45.42	54.00	-8.58	34.03	3	Horizontal	97	1.89	-
PK	2.437G	106.77	Inf	-Inf	34.06	3	Horizontal	97	1.89	-
AV	2.4362G	101.85	Inf	-Inf	34.06	3	Horizontal	97	1.89	-
PK	2.487G	57.15	74.00	-16.85	34.07	3	Horizontal	97	1.89	-
AV	2.4846G	45.50	54.00	-8.50	34.07	3	Horizontal	97	1.89	-

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2437MHz_TX



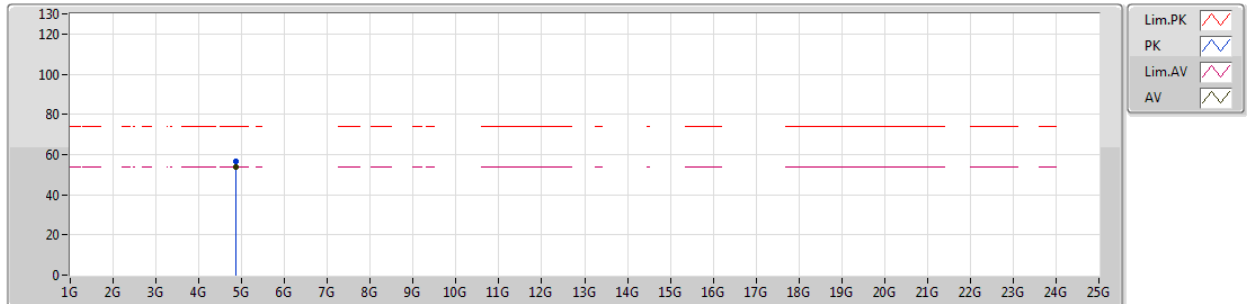
EUT_Z_1TX
Setting 46
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.8741G	56.01	74.00	-17.99	5.51	3	Vertical	284	1.08	-						
AV	4.874G	53.19	54.00	-0.81	5.51	3	Vertical	284	1.08	-						

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2437MHz_TX



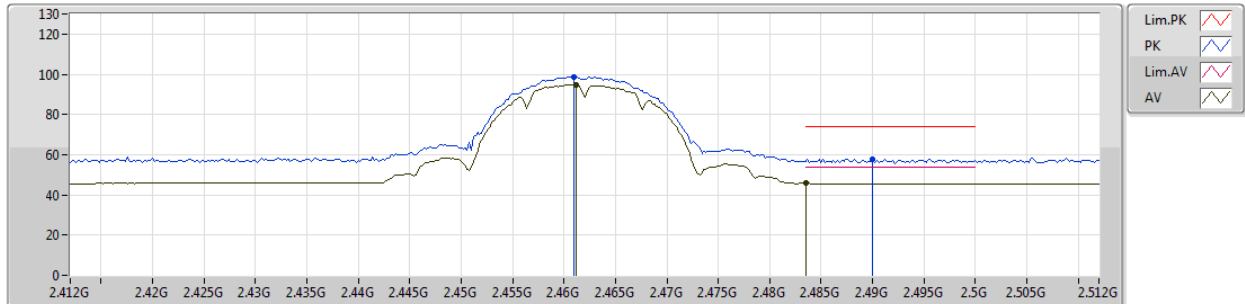
EUT Z_1TX
Setting 46
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87402G	56.76	74.00	-17.24	5.51	3	Horizontal	53	1.00	-						
AV	4.87402G	53.97	54.00	-0.03	5.51	3	Horizontal	53	1.00	-						

802.11b_Nss1,(1Mbps)_1TX

24/01/2019

2462MHz_TX



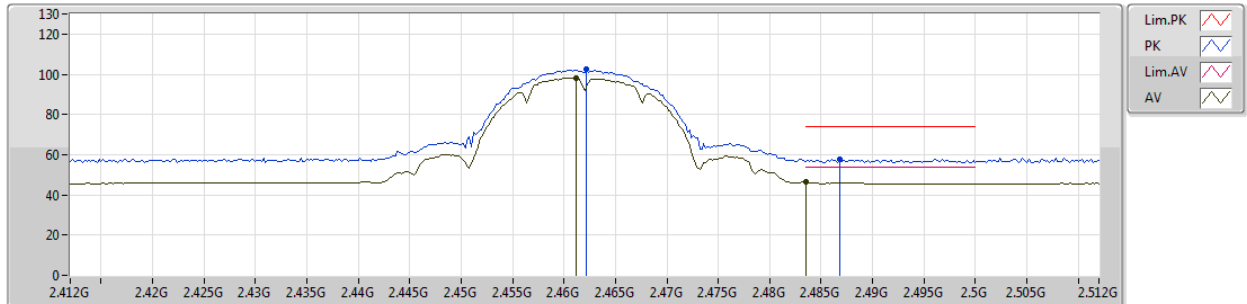
EUT_Z_1TX
Setting 42
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
PK	2.461G	98.59	Inf	-Inf	34.06	3	Vertical	353	1.06	-							
AV	2.4612G	94.73	Inf	-Inf	34.06	3	Vertical	353	1.06	-							
PK	2.49G	57.99	74.00	-16.01	34.07	3	Vertical	353	1.06	-							
AV	2.4835G	45.77	54.00	-8.23	34.07	3	Vertical	353	1.06	-							

802.11b_Nss1,(1Mbps)_1TX

24/01/2019

2462MHz_TX



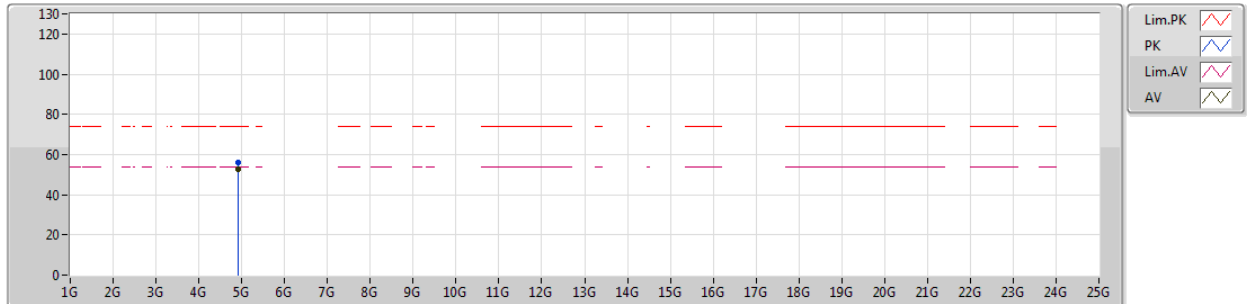
EUT_Z_1TX
Setting 42
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4622G	102.45	Inf	-Inf	34.06	3	Horizontal	69	1.50	-
AV	2.4612G	98.13	Inf	-Inf	34.06	3	Horizontal	69	1.50	-
PK	2.4868G	57.72	74.00	-16.28	34.07	3	Horizontal	69	1.50	-
AV	2.4835G	46.34	54.00	-7.66	34.07	3	Horizontal	69	1.50	-

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2462MHz_TX



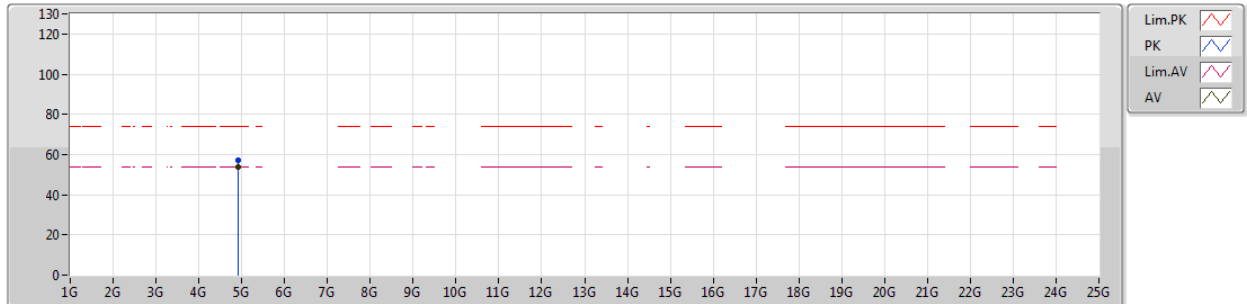
EUT_Z_1TX
Setting 42
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments							
PK	4.92392G	55.84	74.00	-18.16	5.71	3	Vertical	285	1.10	-							
AV	4.924G	52.51	54.00	-1.49	5.71	3	Vertical	285	1.10	-							

802.11b_Nss1,(1Mbps)_1TX

25/01/2019

2462MHz_TX



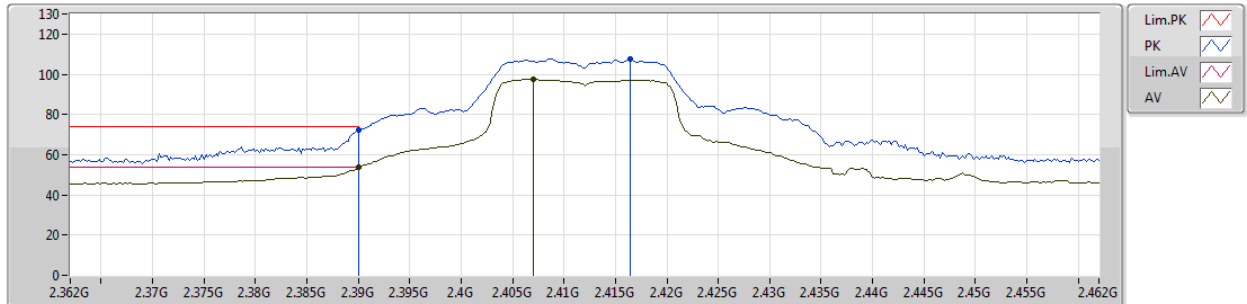
EUT_Z_1TX
Setting 42
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.92402G	56.92	74.00	-17.08	5.71	3	Horizontal	50	1.00	-						
AV	4.924G	53.84	54.00	-0.16	5.71	3	Horizontal	50	1.00	-						

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2412MHz_TX



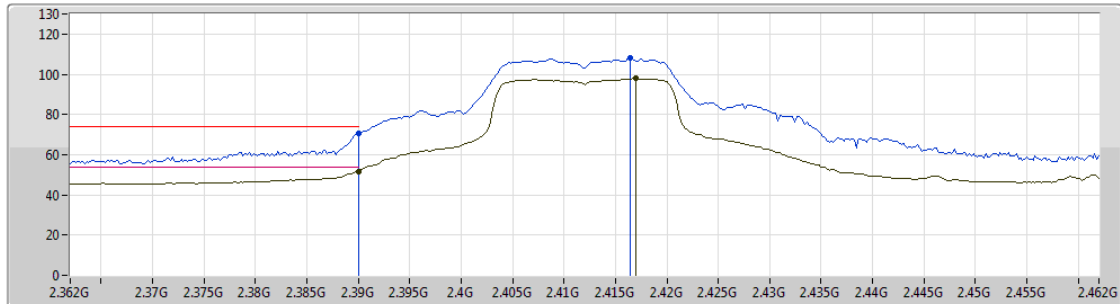
EUT_Z_1TX
Setting 54
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	72.21	74.00	-1.79	34.05	3	Vertical	342	1.28	-
AV	2.39G	53.77	54.00	-0.23	34.05	3	Vertical	342	1.28	-
PK	2.4164G	107.56	Inf	-Inf	34.05	3	Vertical	342	1.28	-
AV	2.407G	97.54	Inf	-Inf	34.06	3	Vertical	342	1.28	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2412MHz_TX



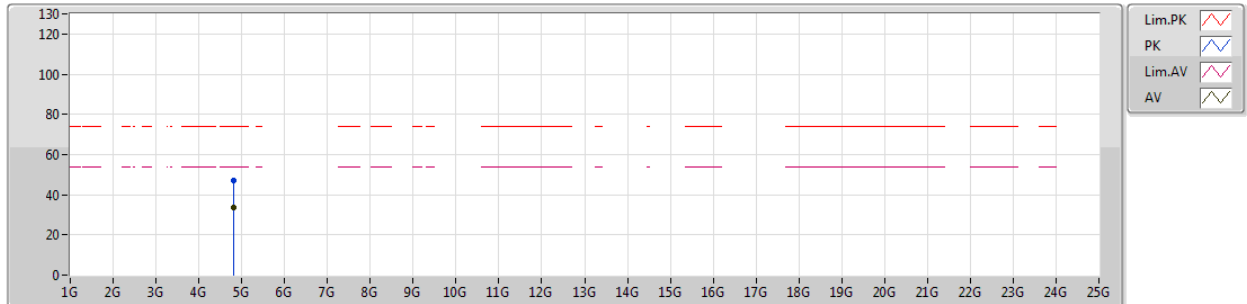
EUT_Z_1TX
Setting 54
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	70.38	74.00	-3.62	34.05	3	Horizontal	90	1.50	-
AV	2.39G	51.81	54.00	-2.19	34.05	3	Horizontal	90	1.50	-
PK	2.4164G	108.19	Inf	-Inf	34.05	3	Horizontal	90	1.50	-
AV	2.417G	97.90	Inf	-Inf	34.05	3	Horizontal	90	1.50	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2412MHz_TX



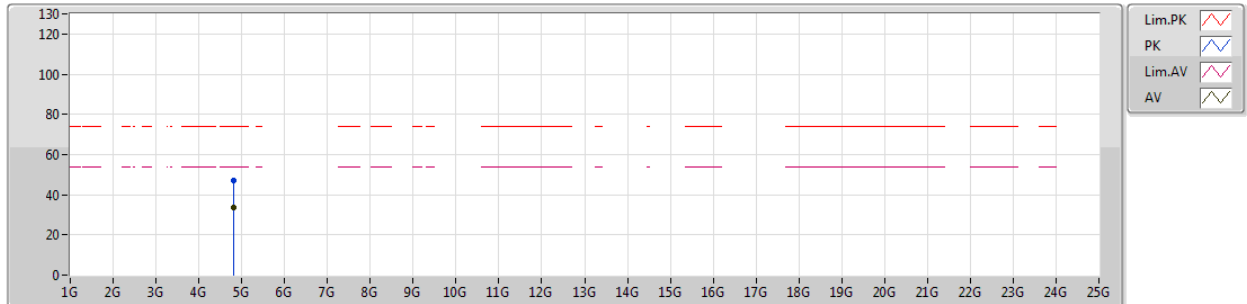
EUT_Z_1TX
Setting 54
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.81432G	47.19	74.00	-26.81	5.29	3	Vertical	182	1.91	-						
AV	4.814G	33.74	54.00	-20.26	5.29	3	Vertical	182	1.91	-						

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2412MHz_TX



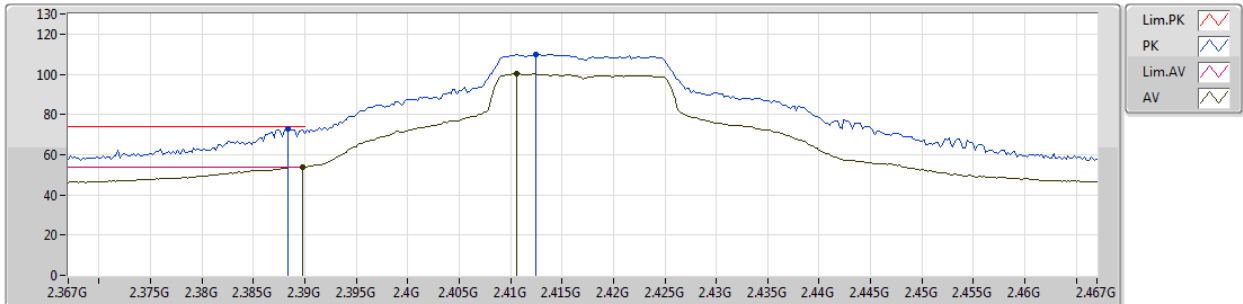
EUT_Z_1TX
Setting 54
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.81444G	46.89	74.00	-27.11	5.29	3	Horizontal	91	1.00	-						
AV	4.81552G	33.69	54.00	-20.31	5.29	3	Horizontal	91	1.00	-						

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2417MHz_TX



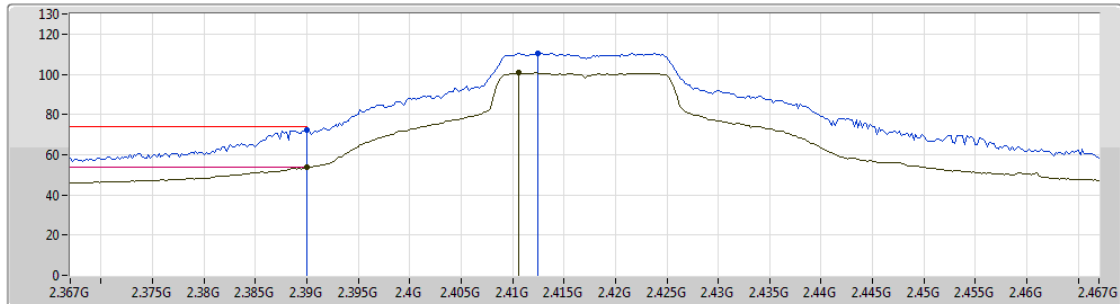
EUT_Z_1TX
Setting 62
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3884G	72.65	74.00	-1.35	34.05	3	Vertical	339	1.24	-
AV	2.3898G	53.93	54.00	-0.07	34.05	3	Vertical	339	1.24	-
PK	2.4124G	109.98	Inf	-Inf	34.05	3	Vertical	339	1.24	-
AV	2.4106G	100.15	Inf	-Inf	34.05	3	Vertical	339	1.24	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2417MHz_TX



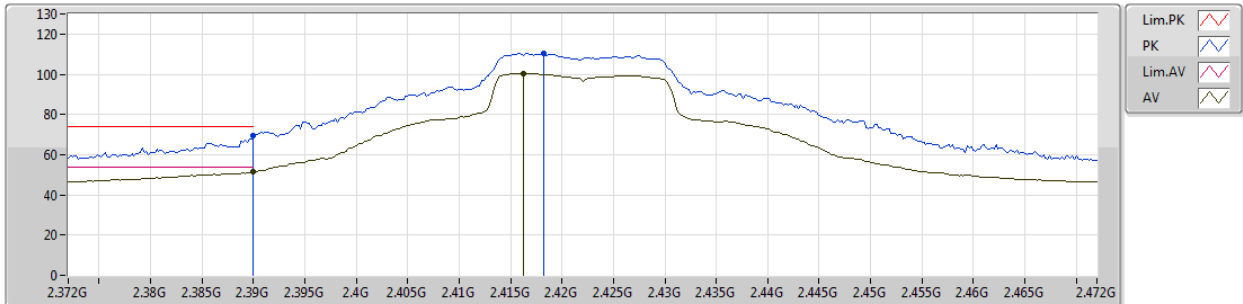
EUT_Z_1TX
Setting 62
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	72.25	74.00	-1.75	34.05	3	Horizontal	88	1.53	-
AV	2.39G	53.53	54.00	-0.47	34.05	3	Horizontal	88	1.53	-
PK	2.4124G	110.38	Inf	-Inf	34.05	3	Horizontal	88	1.53	-
AV	2.4106G	100.64	Inf	-Inf	34.05	3	Horizontal	88	1.53	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2422MHz_TX



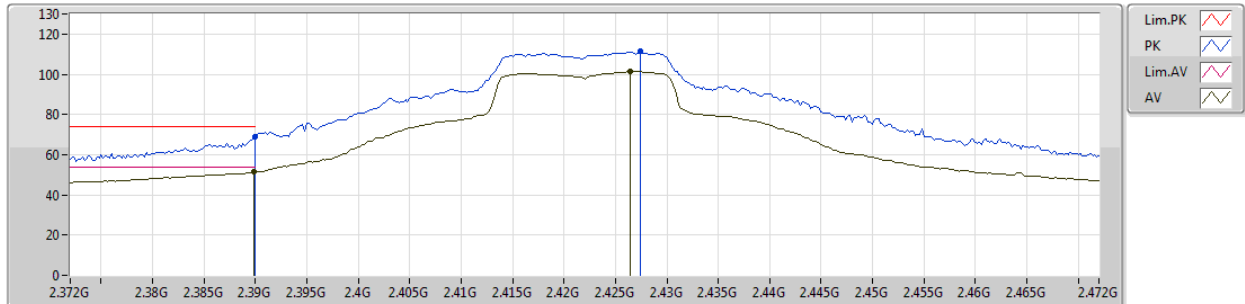
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	69.61	74.00	-4.39	34.05	3	Vertical	340	1.26	-
AV	2.39G	51.59	54.00	-2.41	34.05	3	Vertical	340	1.26	-
PK	2.4182G	110.38	Inf	-Inf	34.05	3	Vertical	340	1.26	-
AV	2.4162G	100.57	Inf	-Inf	34.05	3	Vertical	340	1.26	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2422MHz_TX



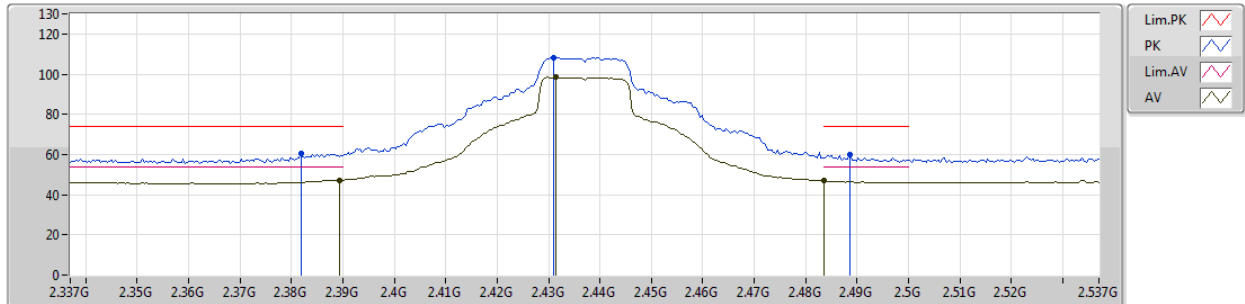
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	68.70	74.00	-5.30	34.05	3	Horizontal	88	2.16	-
AV	2.3898G	51.35	54.00	-2.65	34.05	3	Horizontal	88	2.16	-
PK	2.4274G	111.31	Inf	-Inf	34.05	3	Horizontal	88	2.16	-
AV	2.4264G	101.39	Inf	-Inf	34.05	3	Horizontal	88	2.16	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

24/01/2019



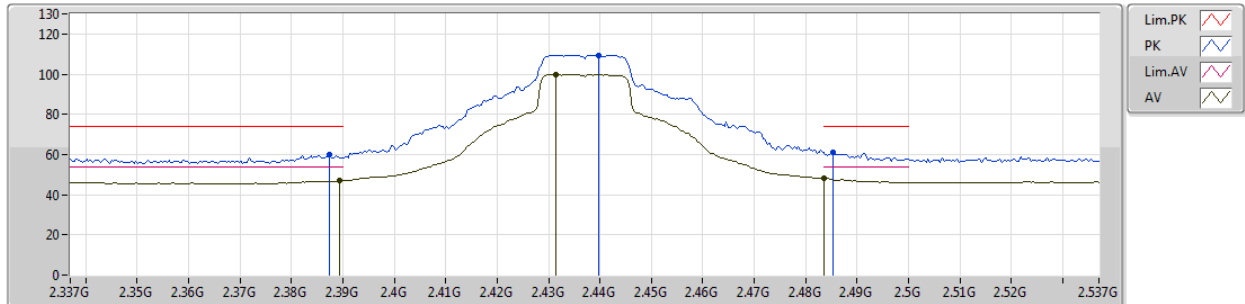
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3818G	60.26	74.00	-13.74	34.04	3	Vertical	336	1.19	-
AV	2.3894G	47.17	54.00	-6.83	34.05	3	Vertical	336	1.19	-
PK	2.431G	108.06	Inf	-Inf	34.05	3	Vertical	336	1.19	-
AV	2.4314G	98.46	Inf	-Inf	34.06	3	Vertical	336	1.19	-
PK	2.4886G	59.71	74.00	-14.29	34.07	3	Vertical	336	1.19	-
AV	2.4835G	46.91	54.00	-7.09	34.07	3	Vertical	336	1.19	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

24/01/2019



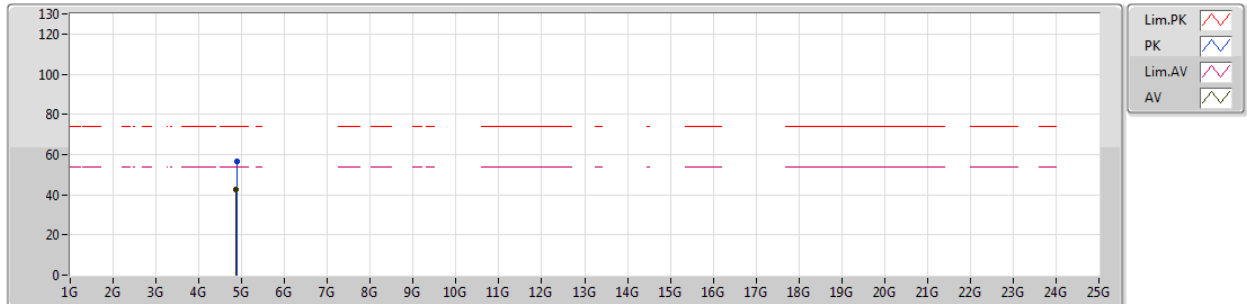
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3874G	59.79	74.00	-14.21	34.05	3	Horizontal	88	2.15	-
AV	2.3894G	46.82	54.00	-7.18	34.05	3	Horizontal	88	2.15	-
PK	2.4398G	109.54	Inf	-Inf	34.06	3	Horizontal	88	2.15	-
AV	2.4314G	99.83	Inf	-Inf	34.06	3	Horizontal	88	2.15	-
PK	2.4854G	61.05	74.00	-12.95	34.07	3	Horizontal	88	2.15	-
AV	2.4835G	47.99	54.00	-6.01	34.07	3	Horizontal	88	2.15	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2437MHz_TX



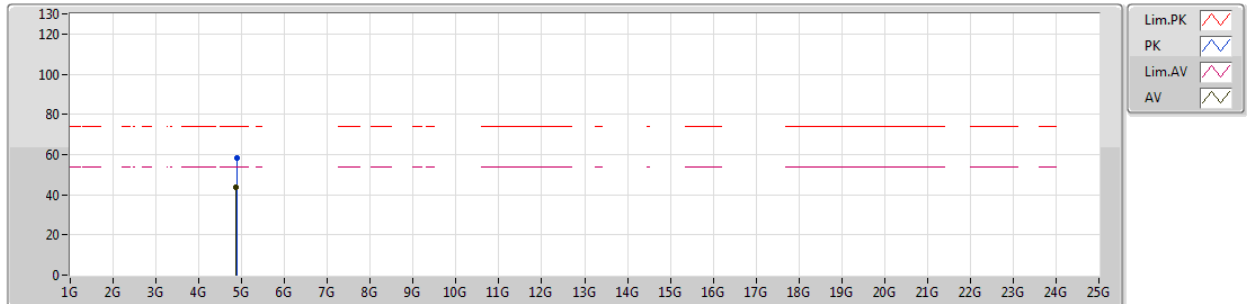
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87756G	56.52	74.00	-17.48	5.53	3	Vertical	284	1.09	-						
AV	4.87244G	42.31	54.00	-11.69	5.51	3	Vertical	284	1.09	-						

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2437MHz_TX



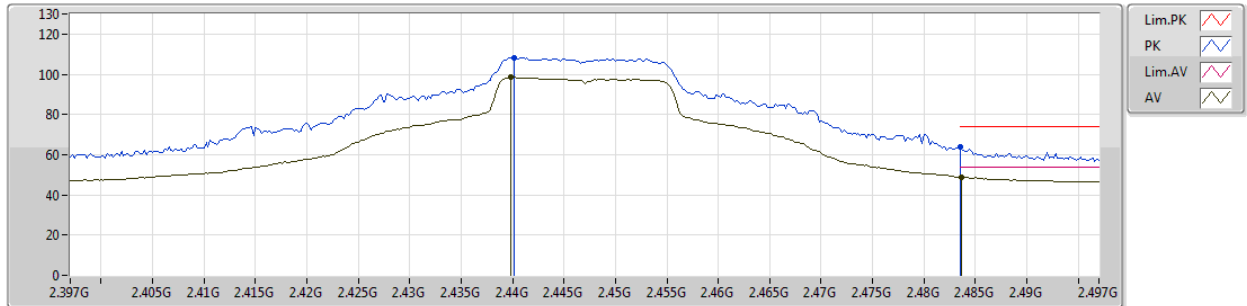
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87764G	58.19	74.00	-15.81	5.53	3	Horizontal	44	1.09	-						
AV	4.87248G	43.62	54.00	-10.38	5.51	3	Horizontal	44	1.09	-						

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2447MHz_TX



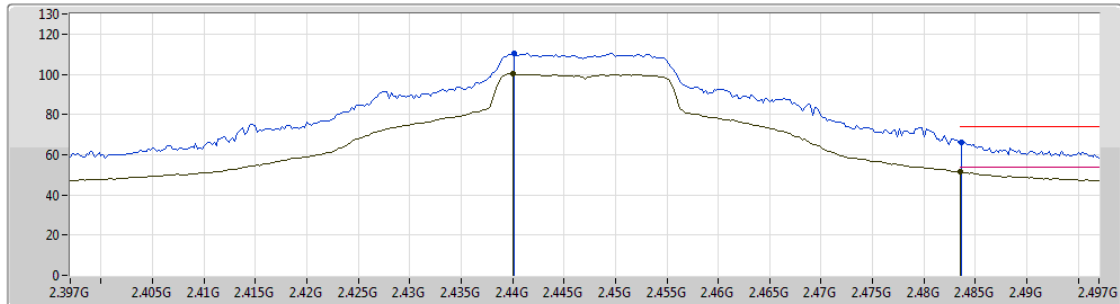
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4402G	108.42	Inf	-Inf	34.06	3	Vertical	334	1.19	-
AV	2.4398G	98.57	Inf	-Inf	34.06	3	Vertical	334	1.19	-
PK	2.4835G	63.65	74.00	-10.35	34.07	3	Vertical	334	1.19	-
AV	2.4836G	48.99	54.00	-5.01	34.07	3	Vertical	334	1.19	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2447MHz_TX



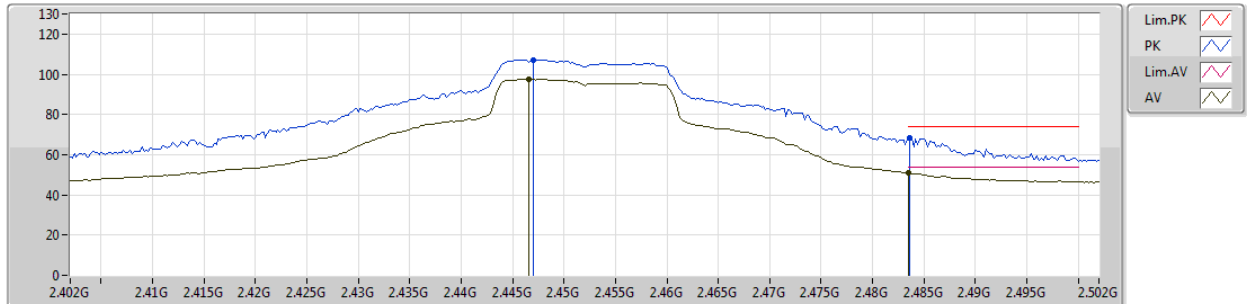
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4402G	110.17	Inf	-Inf	34.06	3	Horizontal	88	2.38	-
AV	2.44G	100.29	Inf	-Inf	34.06	3	Horizontal	88	2.38	-
PK	2.4836G	66.35	74.00	-7.65	34.07	3	Horizontal	88	2.38	-
AV	2.4835G	51.31	54.00	-2.69	34.07	3	Horizontal	88	2.38	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2452MHz_TX



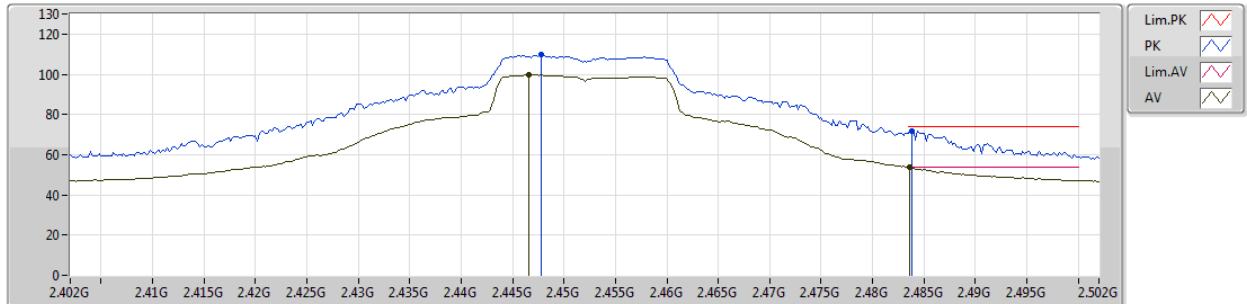
EUT_Z_1TX
Setting 62
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.447G	107.30	Inf	-Inf	34.06	3	Vertical	335	1.26	-
AV	2.4466G	97.65	Inf	-Inf	34.06	3	Vertical	335	1.26	-
PK	2.4836G	68.59	74.00	-5.41	34.07	3	Vertical	335	1.26	-
AV	2.4835G	50.81	54.00	-3.19	34.07	3	Vertical	335	1.26	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2452MHz_TX



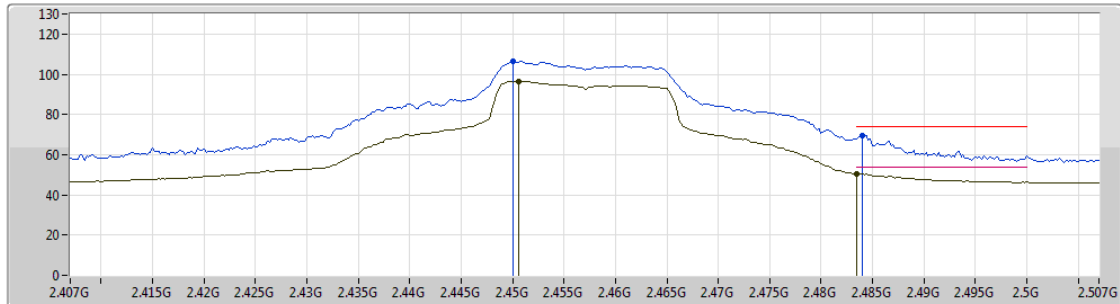
EUT_Z_1TX
Setting 62
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4478G	109.63	Inf	-Inf	34.06	3	Horizontal	86	2.14	-
AV	2.4466G	99.70	Inf	-Inf	34.06	3	Horizontal	86	2.14	-
PK	2.4838G	71.81	74.00	-2.19	34.07	3	Horizontal	86	2.14	-
AV	2.4836G	53.68	54.00	-0.32	34.07	3	Horizontal	86	2.14	-

802.11g_Nss1,(6Mbps)_1TX

24/01/2019

2457MHz_TX



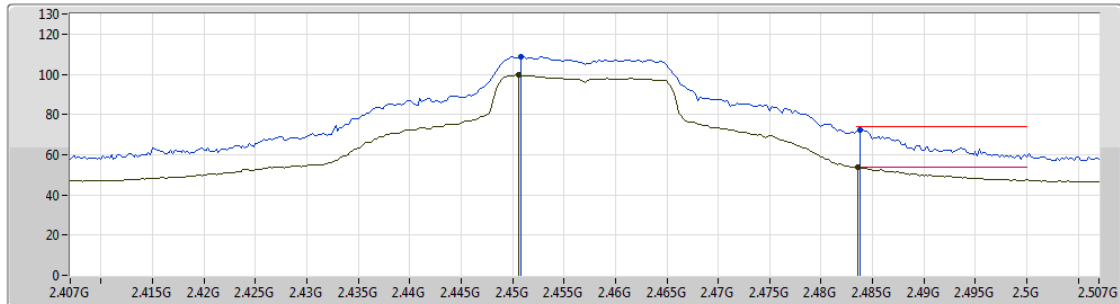
EUT_Z_1TX
Setting 59
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.45G	106.35	Inf	-Inf	34.06	3	Vertical	336	1.24	-
AV	2.4506G	96.60	Inf	-Inf	34.06	3	Vertical	336	1.24	-
PK	2.484G	69.62	74.00	-4.38	34.07	3	Vertical	336	1.24	-
AV	2.4835G	50.42	54.00	-3.58	34.07	3	Vertical	336	1.24	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2457MHz_TX



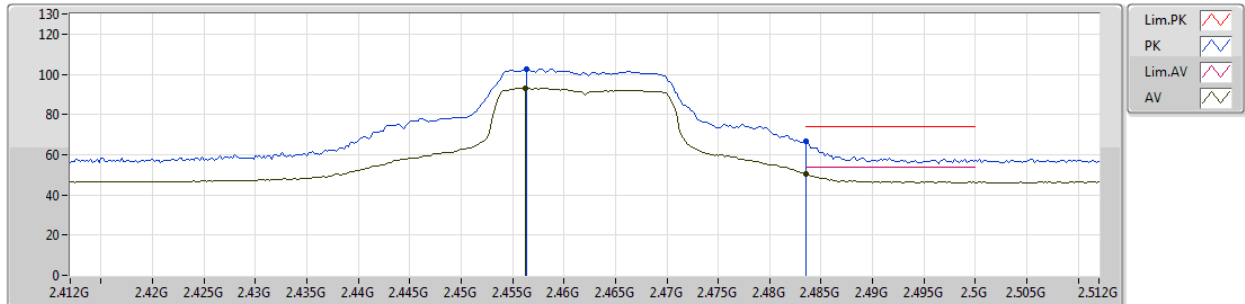
EUT_Z_1TX
Setting 59
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4508G	108.74	Inf	-Inf	34.06	3	Horizontal	90	2.39	-
AV	2.4506G	99.54	Inf	-Inf	34.06	3	Horizontal	90	2.39	-
PK	2.4838G	72.49	74.00	-1.51	34.07	3	Horizontal	90	2.39	-
AV	2.4836G	53.71	54.00	-0.29	34.07	3	Horizontal	90	2.39	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2462MHz_TX



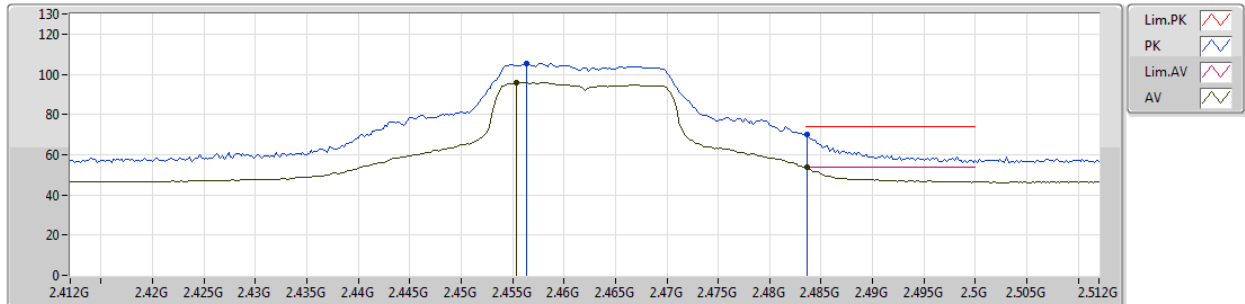
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4564G	102.71	Inf	-Inf	34.07	3	Vertical	344	1.42	-
AV	2.4562G	93.05	Inf	-Inf	34.06	3	Vertical	344	1.42	-
PK	2.4835G	66.45	74.00	-7.55	34.07	3	Vertical	344	1.42	-
AV	2.4835G	50.38	54.00	-3.62	34.07	3	Vertical	344	1.42	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2462MHz_TX



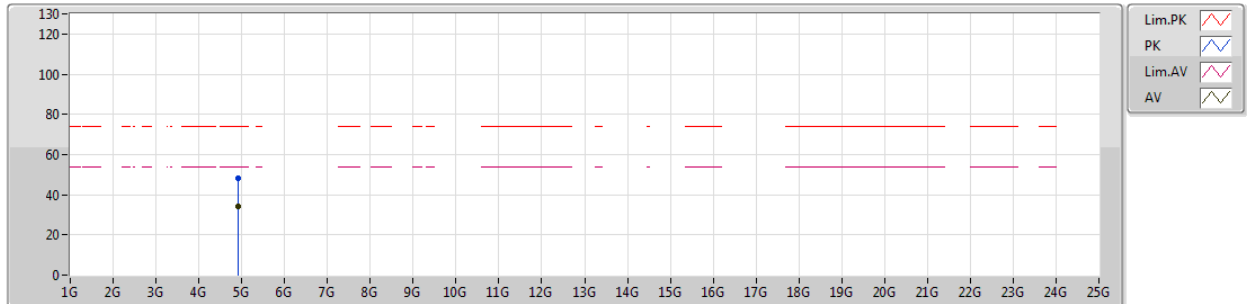
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4564G	105.48	Inf	-Inf	34.07	3	Horizontal	91	1.50	-
AV	2.4554G	95.80	Inf	-Inf	34.06	3	Horizontal	91	1.50	-
PK	2.4836G	70.10	74.00	-3.90	34.07	3	Horizontal	91	1.50	-
AV	2.4836G	53.67	54.00	-0.33	34.07	3	Horizontal	91	1.50	-

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2462MHz_TX



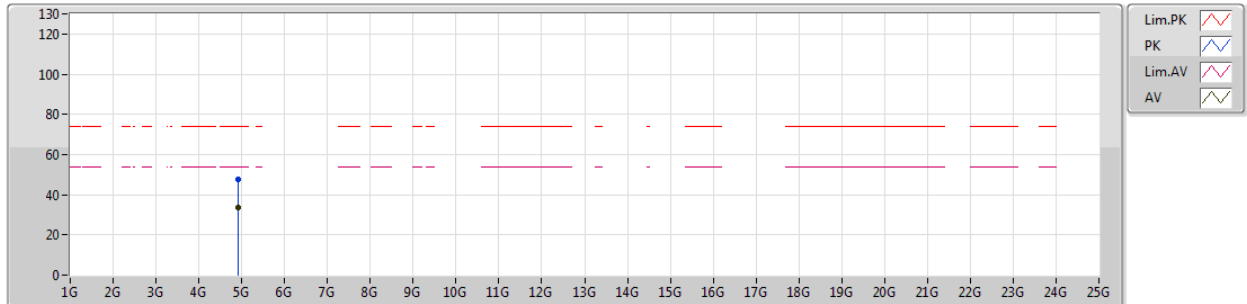
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.915G	48.03	74.00	-25.97	5.68	3	Vertical	91	1.01	-						
AV	4.92716G	33.99	54.00	-20.01	5.73	3	Vertical	91	1.01	-						

802.11g_Nss1,(6Mbps)_1TX

25/01/2019

2462MHz_TX



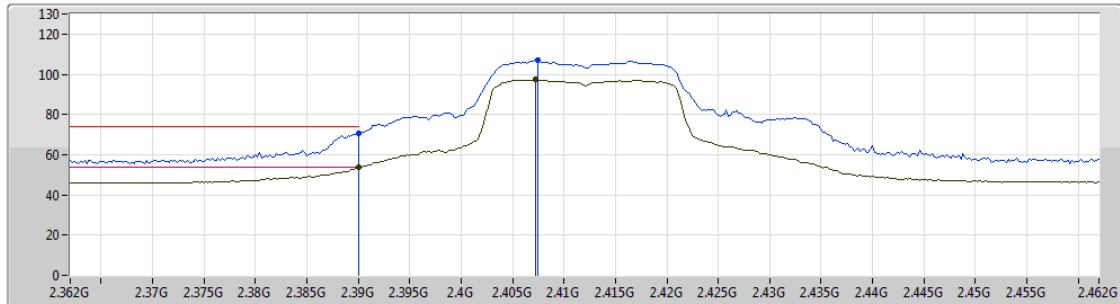
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.91724G	47.80	74.00	-26.20	5.69	3	Horizontal	191	1.57	-						
AV	4.91836G	33.86	54.00	-20.14	5.69	3	Horizontal	191	1.57	-						

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2412MHz_TX



Lim.PK
PK
Lim.AV
AV

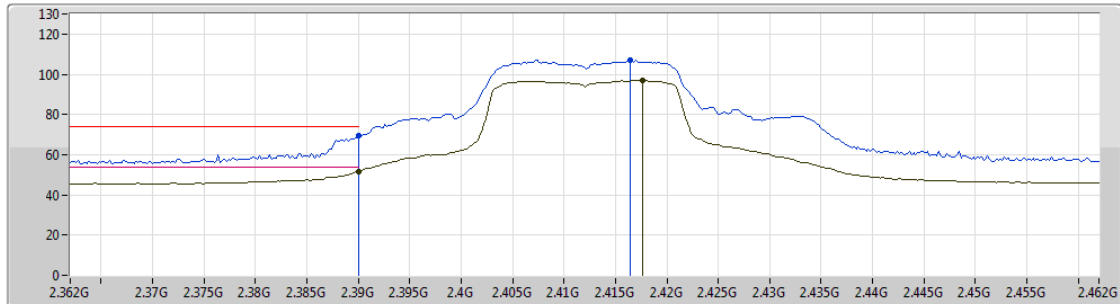
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	70.74	74.00	-3.26	34.05	3	Vertical	340	1.24	-
AV	2.39G	53.61	54.00	-0.39	34.05	3	Vertical	340	1.24	-
PK	2.4074G	107.20	Inf	-Inf	34.06	3	Vertical	340	1.24	-
AV	2.4072G	97.25	Inf	-Inf	34.06	3	Vertical	340	1.24	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2412MHz_TX



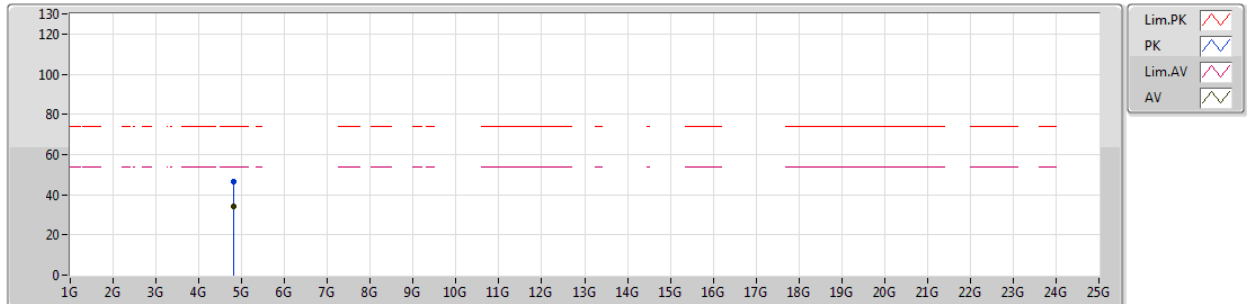
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	69.34	74.00	-4.66	34.05	3	Horizontal	87	1.50	-
AV	2.39G	51.72	54.00	-2.28	34.05	3	Horizontal	87	1.50	-
PK	2.4164G	107.13	Inf	-Inf	34.05	3	Horizontal	87	1.50	-
AV	2.4176G	96.93	Inf	-Inf	34.05	3	Horizontal	87	1.50	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2412MHz_TX



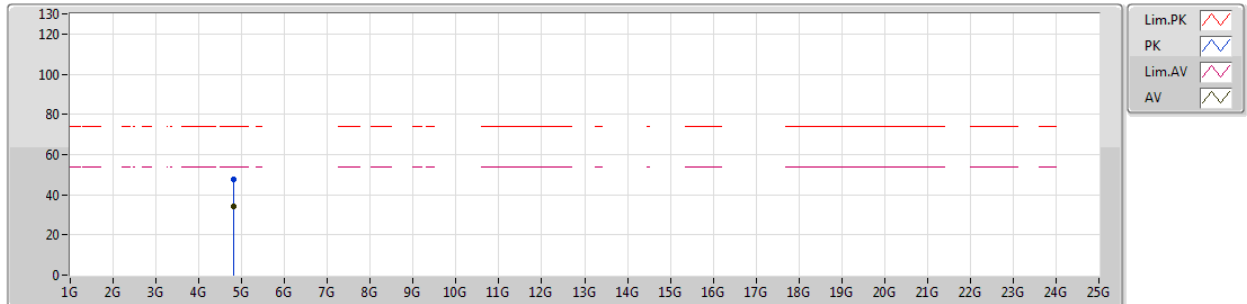
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.82444G	46.76	74.00	-27.24	5.32	3	Vertical	241	1.45	-						
AV	4.8146G	34.33	54.00	-19.67	5.29	3	Vertical	241	1.45	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2412MHz_TX



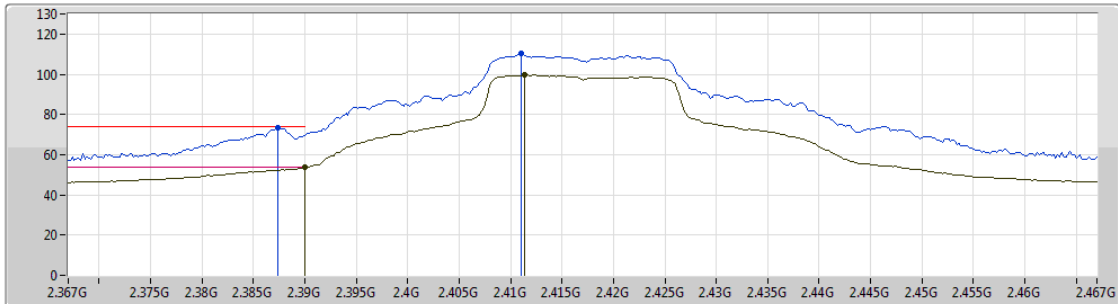
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.81476G	47.51	74.00	-26.49	5.29	3	Horizontal	9	1.19	-						
AV	4.81436G	34.36	54.00	-19.64	5.29	3	Horizontal	9	1.19	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2417MHz_TX



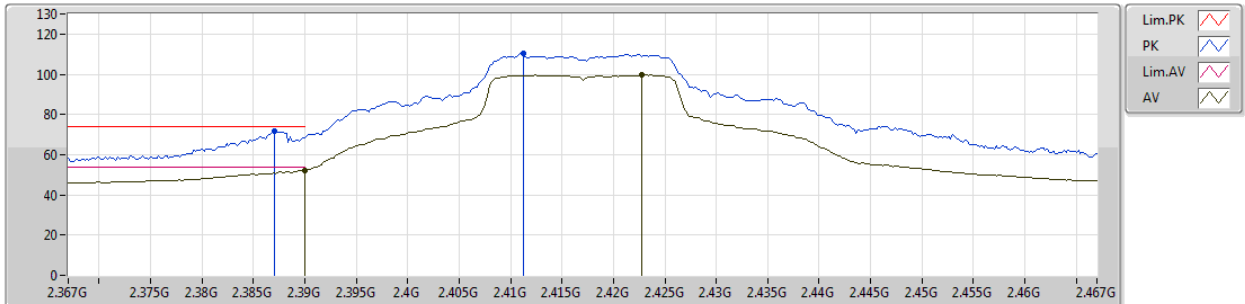
EUT_Z_1TX
Setting 61
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	2.3874G	73.27	74.00	-0.73	34.05	3	Vertical	339	1.24	-						
AV	2.39G	53.60	54.00	-0.40	34.05	3	Vertical	339	1.24	-						
PK	2.411G	110.59	Inf	-Inf	34.05	3	Vertical	339	1.24	-						
AV	2.4114G	99.59	Inf	-Inf	34.05	3	Vertical	339	1.24	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2417MHz_TX



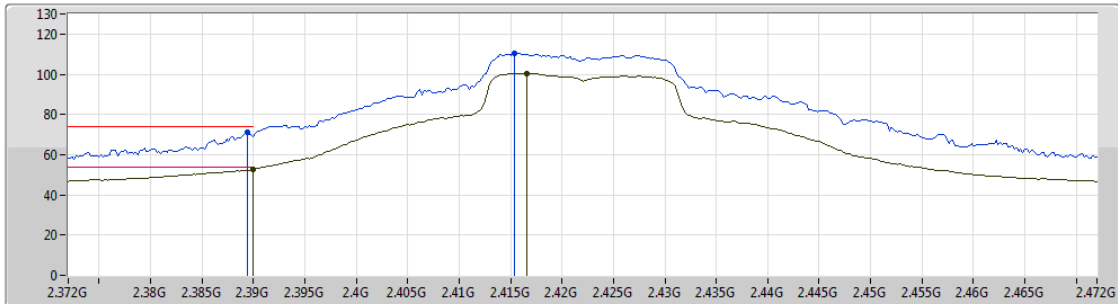
EUT_Z_1TX
Setting 61
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.387G	71.64	74.00	-2.36	34.05	3	Horizontal	92	1.53	-
AV	2.39G	52.30	54.00	-1.70	34.05	3	Horizontal	92	1.53	-
PK	2.4112G	110.49	Inf	-Inf	34.05	3	Horizontal	92	1.53	-
AV	2.4228G	99.69	Inf	-Inf	34.06	3	Horizontal	92	1.53	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



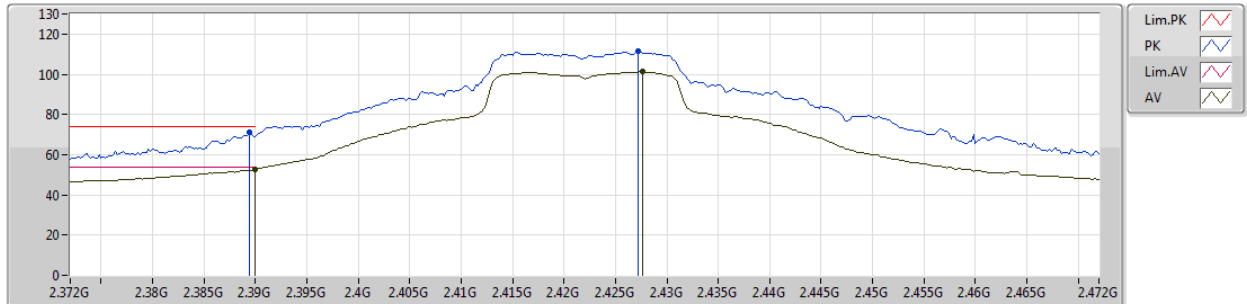
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3894G	70.98	74.00	-3.02	34.05	3	Vertical	339	1.25	-
AV	2.39G	52.84	54.00	-1.16	34.05	3	Vertical	339	1.25	-
PK	2.4154G	110.61	Inf	-Inf	34.05	3	Vertical	339	1.25	-
AV	2.4166G	100.56	Inf	-Inf	34.05	3	Vertical	339	1.25	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



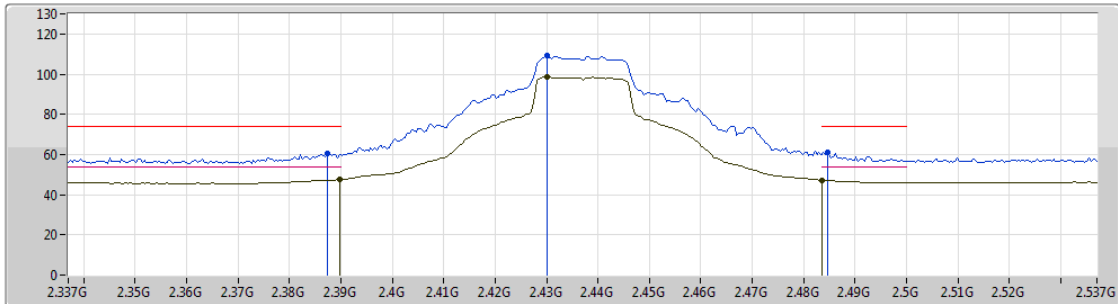
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3894G	71.28	74.00	-2.72	34.05	3	Horizontal	86	2.19	-
AV	2.39G	52.55	54.00	-1.45	34.05	3	Horizontal	86	2.19	-
PK	2.4272G	111.38	Inf	-Inf	34.05	3	Horizontal	86	2.19	-
AV	2.4276G	101.29	Inf	-Inf	34.05	3	Horizontal	86	2.19	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2437MHz_TX



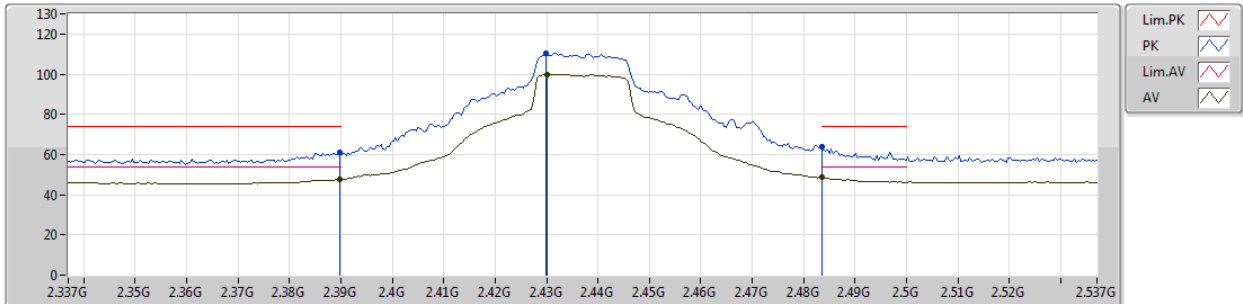
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3874G	60.70	74.00	-13.30	34.05	3	Vertical	337	1.20	-
AV	2.3898G	47.70	54.00	-6.30	34.05	3	Vertical	337	1.20	-
PK	2.4302G	109.09	Inf	-Inf	34.05	3	Vertical	337	1.20	-
AV	2.4302G	98.48	Inf	-Inf	34.05	3	Vertical	337	1.20	-
PK	2.4846G	61.11	74.00	-12.89	34.07	3	Vertical	337	1.20	-
AV	2.4835G	47.21	54.00	-6.79	34.07	3	Vertical	337	1.20	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2437MHz_TX



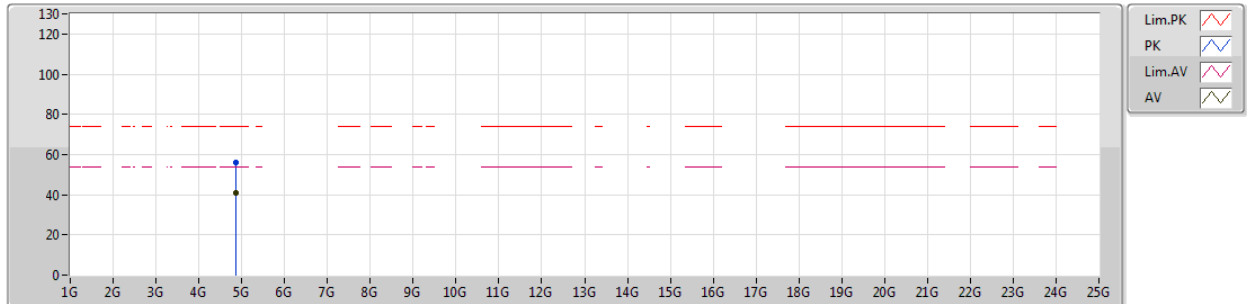
EUT_Z_1TX
Setting 63
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	60.90	74.00	-13.10	34.05	3	Horizontal	85	1.74	-
AV	2.3898G	47.74	54.00	-6.26	34.05	3	Horizontal	85	1.74	-
PK	2.4298G	110.42	Inf	-Inf	34.05	3	Horizontal	85	1.74	-
AV	2.4302G	99.85	Inf	-Inf	34.05	3	Horizontal	85	1.74	-
PK	2.4835G	63.70	74.00	-10.30	34.07	3	Horizontal	85	1.74	-
AV	2.4835G	48.54	54.00	-5.46	34.07	3	Horizontal	85	1.74	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2437MHz_TX



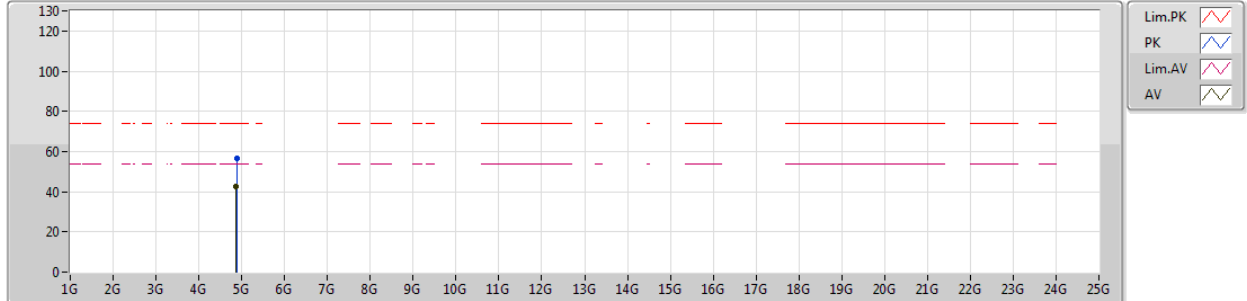
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87724G	55.80	74.00	-18.20	5.52	3	Vertical	284	1.08	-						
AV	4.87358G	41.13	54.00	-12.87	5.51	3	Vertical	284	1.08	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2437MHz_TX



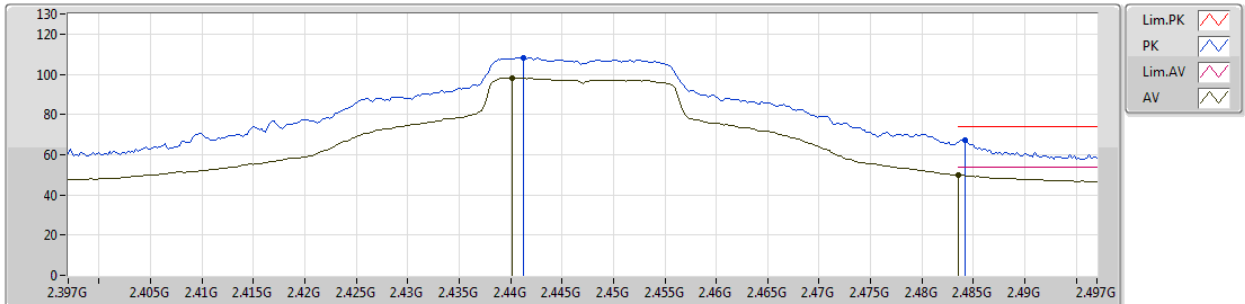
EUT Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87736G	56.59	74.00	-17.41	5.53	3	Horizontal	48	1.17	-						
AV	4.87382G	42.33	54.00	-11.67	5.51	3	Horizontal	48	1.17	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2447MHz_TX



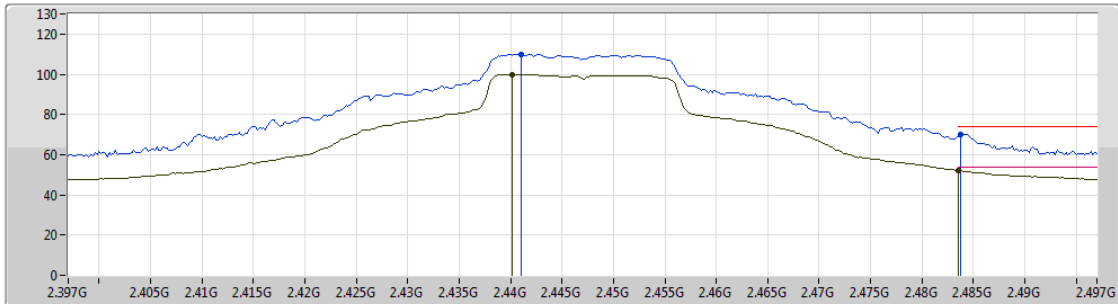
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4412G	108.09	Inf	-Inf	34.06	3	Vertical	338	1.20	-
AV	2.4402G	98.17	Inf	-Inf	34.06	3	Vertical	338	1.20	-
PK	2.4842G	67.28	74.00	-6.72	34.07	3	Vertical	338	1.20	-
AV	2.4835G	49.97	54.00	-4.03	34.07	3	Vertical	338	1.20	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2447MHz_TX



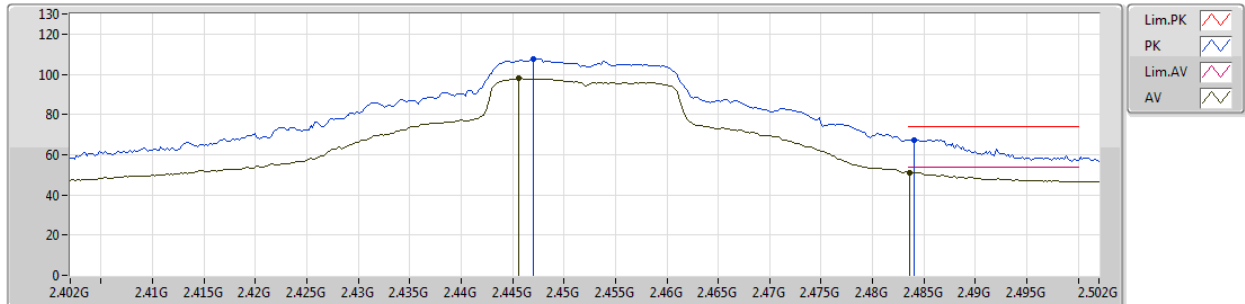
EUT_Z_1TX
Setting 63
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.441G	109.97	Inf	-Inf	34.06	3	Horizontal	87	2.16	-
AV	2.4402G	99.99	Inf	-Inf	34.06	3	Horizontal	87	2.16	-
PK	2.4838G	70.23	74.00	-3.77	34.07	3	Horizontal	87	2.16	-
AV	2.4835G	52.22	54.00	-1.78	34.07	3	Horizontal	87	2.16	-

802.11n HT20_Nss1,(MCS0)_1TX

2452MHz_TX

24/01/2019



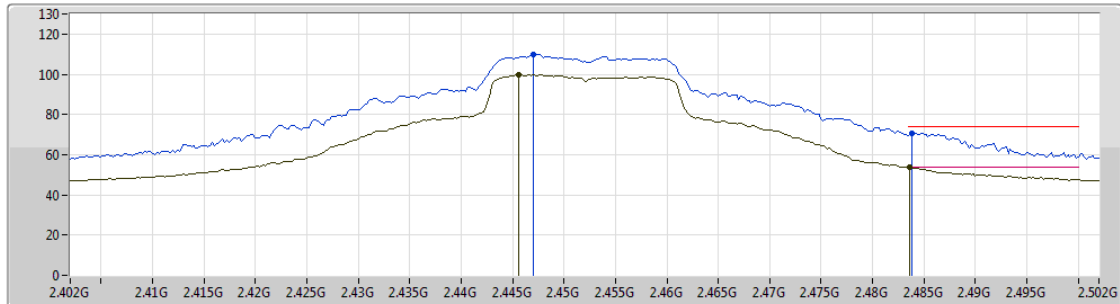
EUT_Z_1TX
Setting 61
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.447G	107.86	Inf	-Inf	34.06	3	Vertical	338	1.23	-
AV	2.4456G	97.86	Inf	-Inf	34.06	3	Vertical	338	1.23	-
PK	2.484G	67.34	74.00	-6.66	34.07	3	Vertical	338	1.23	-
AV	2.4836G	51.23	54.00	-2.77	34.07	3	Vertical	338	1.23	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2452MHz_TX



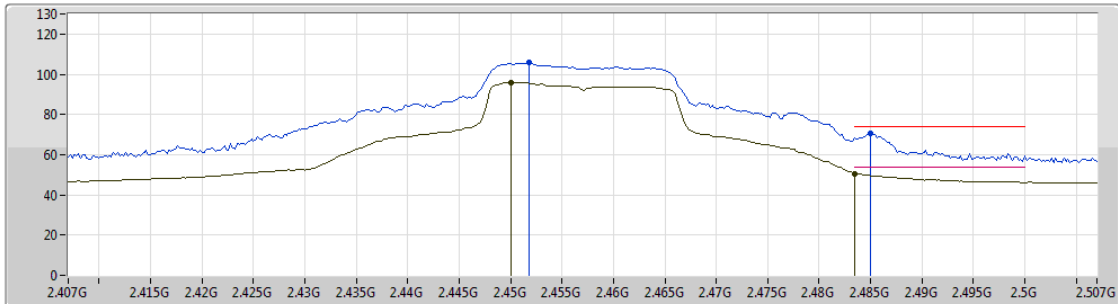
EUT_Z_1TX
Setting 61
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.447G	109.79	Inf	-Inf	34.06	3	Horizontal	87	2.15	-
AV	2.4456G	99.74	Inf	-Inf	34.06	3	Horizontal	87	2.15	-
PK	2.4838G	70.68	74.00	-3.32	34.07	3	Horizontal	87	2.15	-
AV	2.4836G	53.62	54.00	-0.38	34.07	3	Horizontal	87	2.15	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2457MHz_TX



Lim.PK
PK
Lim_AV
AV

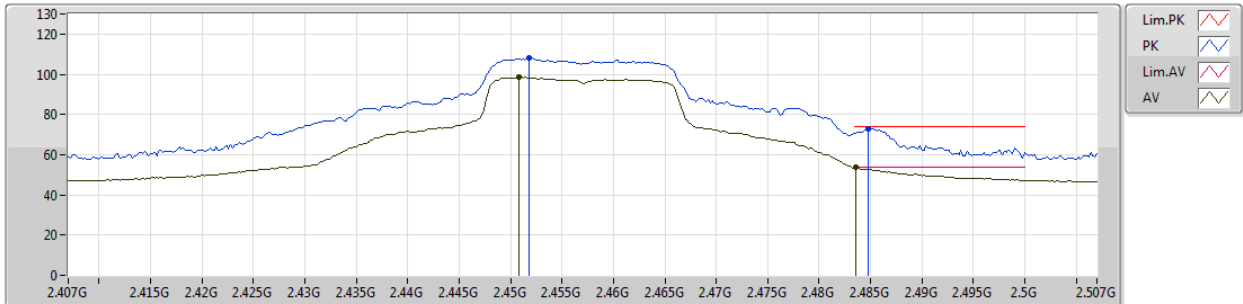
EUT_Z_1TX
Setting 58
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4518G	105.90	Inf	-Inf	34.06	3	Vertical	340	1.22	-
AV	2.45G	95.84	Inf	-Inf	34.06	3	Vertical	340	1.22	-
PK	2.485G	70.36	74.00	-3.64	34.07	3	Vertical	340	1.22	-
AV	2.4835G	50.42	54.00	-3.58	34.07	3	Vertical	340	1.22	-

802.11n HT20_Nss1,(MCS0)_1TX

2457MHz_TX

24/01/2019



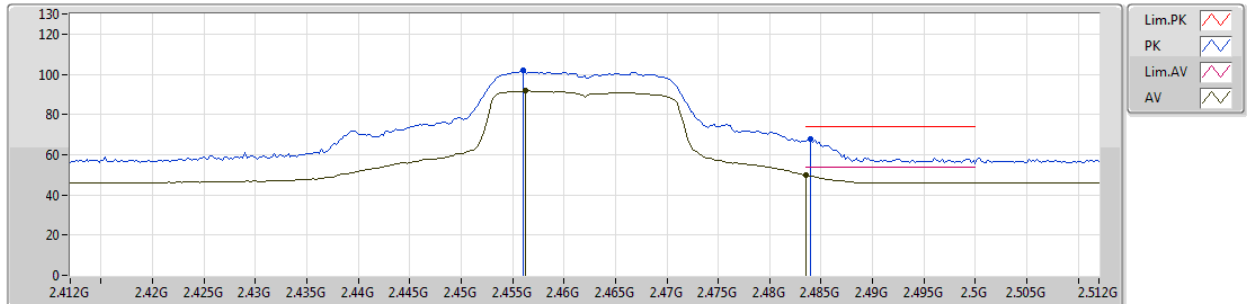
EUT_Z_1TX
Setting 58
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4518G	108.20	Inf	-Inf	34.06	3	Horizontal	90	2.40	-
AV	2.4508G	98.48	Inf	-Inf	34.06	3	Horizontal	90	2.40	-
PK	2.4848G	72.92	74.00	-1.08	34.07	3	Horizontal	90	2.40	-
AV	2.4836G	53.61	54.00	-0.39	34.07	3	Horizontal	90	2.40	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2462MHz_TX



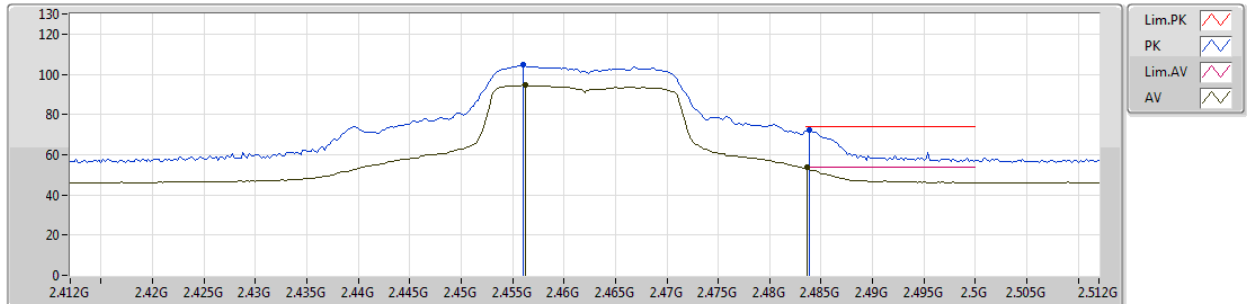
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.456G	101.80	Inf	-Inf	34.06	3	Vertical	345	1.44	-
AV	2.4562G	91.77	Inf	-Inf	34.06	3	Vertical	345	1.44	-
PK	2.484G	67.86	74.00	-6.14	34.07	3	Vertical	345	1.44	-
AV	2.4835G	50.02	54.00	-3.98	34.07	3	Vertical	345	1.44	-

802.11n HT20_Nss1,(MCS0)_1TX

24/01/2019

2462MHz_TX



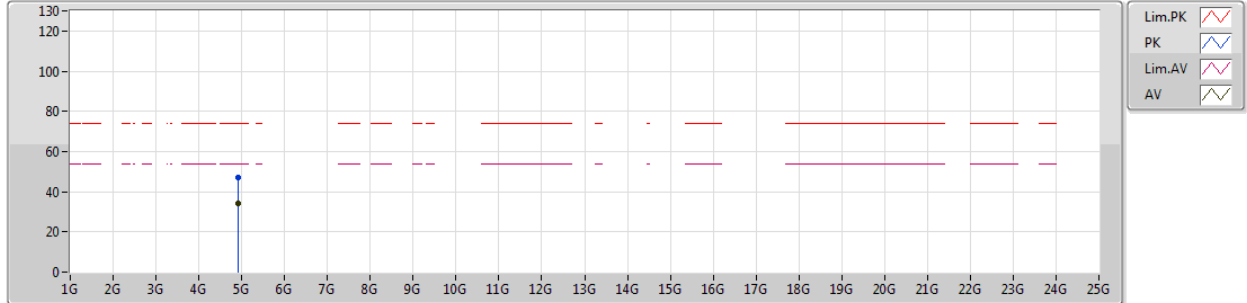
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.456G	104.58	Inf	-Inf	34.06	3	Horizontal	84	1.29	-
AV	2.4562G	94.55	Inf	-Inf	34.06	3	Horizontal	84	1.29	-
PK	2.4838G	72.07	74.00	-1.93	34.07	3	Horizontal	84	1.29	-
AV	2.4836G	53.56	54.00	-0.44	34.07	3	Horizontal	84	1.29	-

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2462MHz_TX



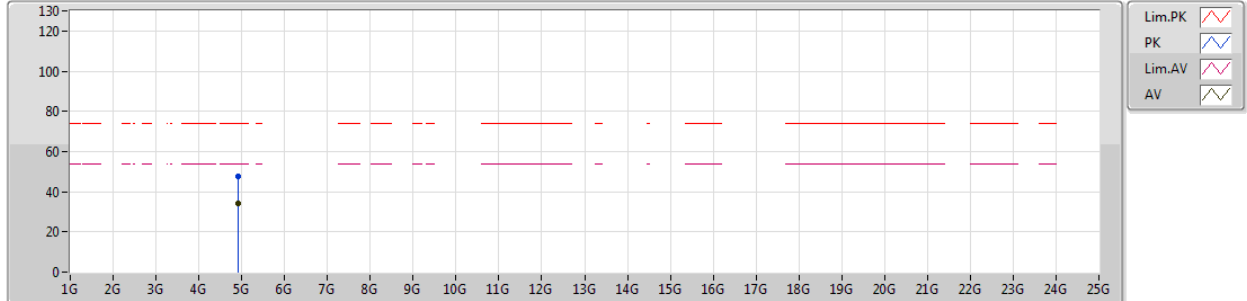
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.91504G	47.13	74.00	-26.87	5.68	3	Vertical	126	1.11	-						
AV	4.91728G	33.97	54.00	-20.03	5.69	3	Vertical	126	1.11	-						

802.11n HT20_Nss1,(MCS0)_1TX

25/01/2019

2462MHz_TX



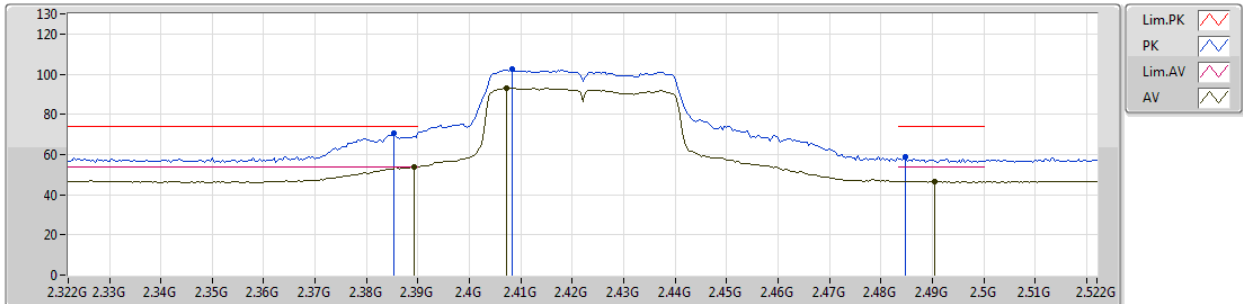
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.92856G	47.69	74.00	-26.31	5.73	3	Horizontal	110	1.47	-						
AV	4.92744G	34.26	54.00	-19.74	5.73	3	Horizontal	110	1.47	-						

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



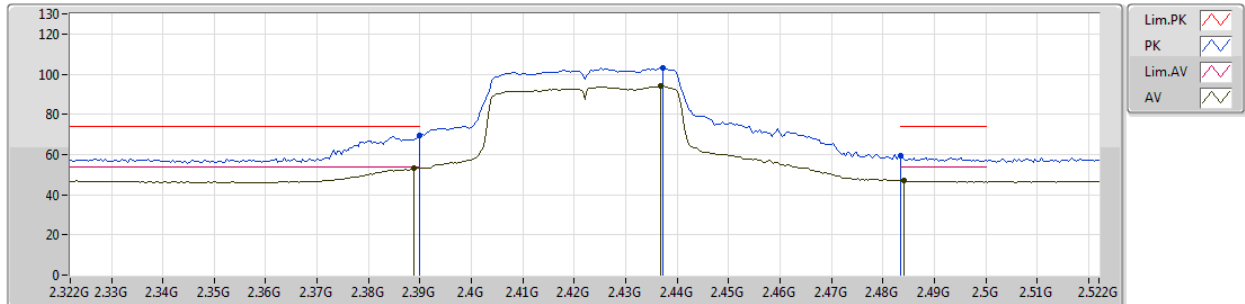
EUT_Z_1TX
Setting 49
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3852G	70.46	74.00	-3.54	34.05	3	Vertical	338	1.26	-
AV	2.3892G	53.84	54.00	-0.16	34.05	3	Vertical	338	1.26	-
PK	2.4084G	102.70	Inf	-Inf	34.05	3	Vertical	338	1.26	-
AV	2.4072G	93.14	Inf	-Inf	34.06	3	Vertical	338	1.26	-
PK	2.4848G	58.64	74.00	-15.36	34.07	3	Vertical	338	1.26	-
AV	2.4904G	46.67	54.00	-7.33	34.07	3	Vertical	338	1.26	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



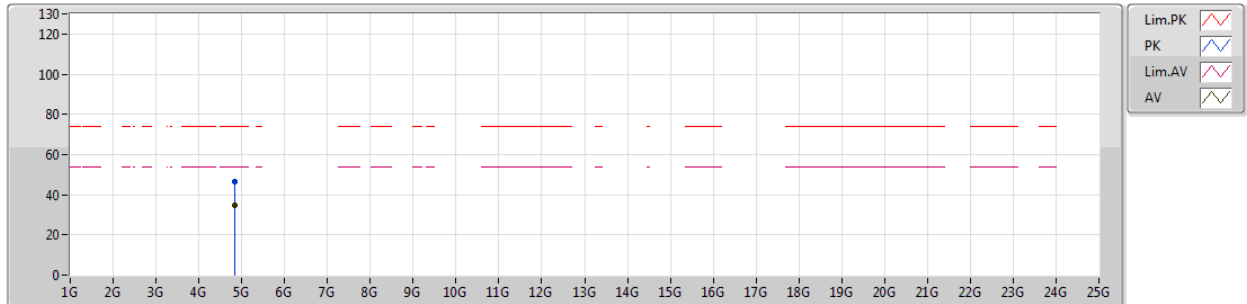
EUT_Z_1TX
Setting 49
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.39G	69.65	74.00	-4.35	34.05	3	Horizontal	86	2.16	-
AV	2.3888G	53.18	54.00	-0.82	34.05	3	Horizontal	86	2.16	-
PK	2.4372G	103.26	Inf	-Inf	34.06	3	Horizontal	86	2.16	-
AV	2.4368G	93.90	Inf	-Inf	34.06	3	Horizontal	86	2.16	-
PK	2.4835G	59.42	74.00	-14.58	34.07	3	Horizontal	86	2.16	-
AV	2.484G	47.03	54.00	-6.97	34.07	3	Horizontal	86	2.16	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



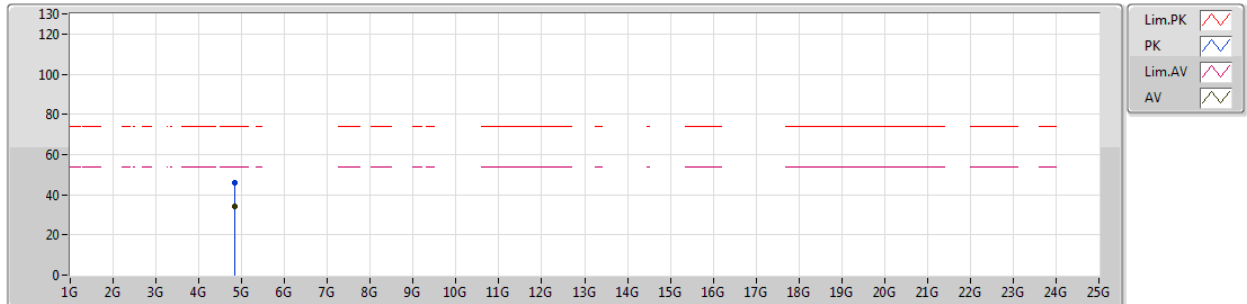
EUT_Z_1TX
Setting 49
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.84732G	46.43	74.00	-27.57	5.41	3	Vertical	243	1.25	-						
AV	4.84824G	34.61	54.00	-19.39	5.41	3	Vertical	243	1.25	-						

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2422MHz_TX



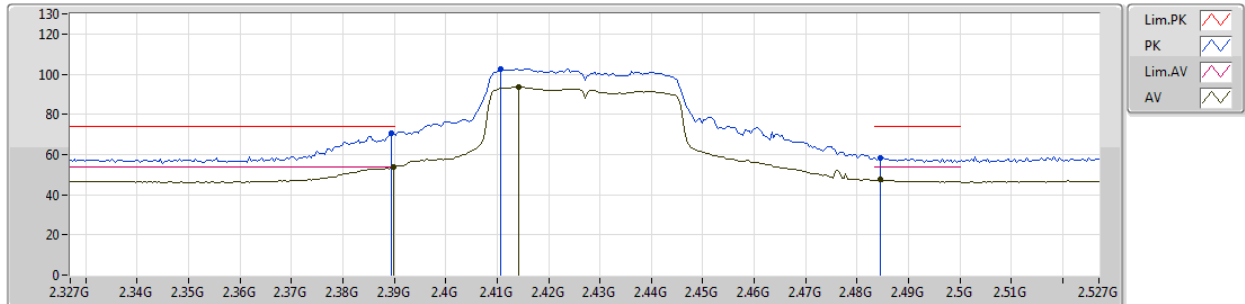
EUT_Z_1TX
Setting 49
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.83652G	46.20	74.00	-27.80	5.37	3	Horizontal	119	2.39	-						
AV	4.84908G	34.25	54.00	-19.75	5.41	3	Horizontal	119	2.39	-						

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2427MHz_TX



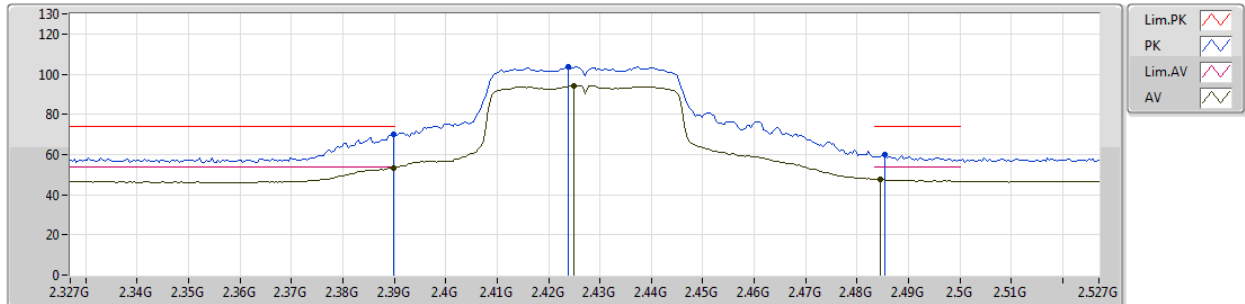
EUT_Z_1TX
Setting 51
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3894G	70.34	74.00	-3.66	34.05	3	Vertical	341	1.26	-
AV	2.3898G	53.63	54.00	-0.37	34.05	3	Vertical	341	1.26	-
PK	2.4106G	102.79	Inf	-Inf	34.05	3	Vertical	341	1.26	-
AV	2.4142G	93.59	Inf	-Inf	34.05	3	Vertical	341	1.26	-
PK	2.4846G	58.43	74.00	-15.57	34.07	3	Vertical	341	1.26	-
AV	2.4846G	47.36	54.00	-6.64	34.07	3	Vertical	341	1.26	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2427MHz_TX



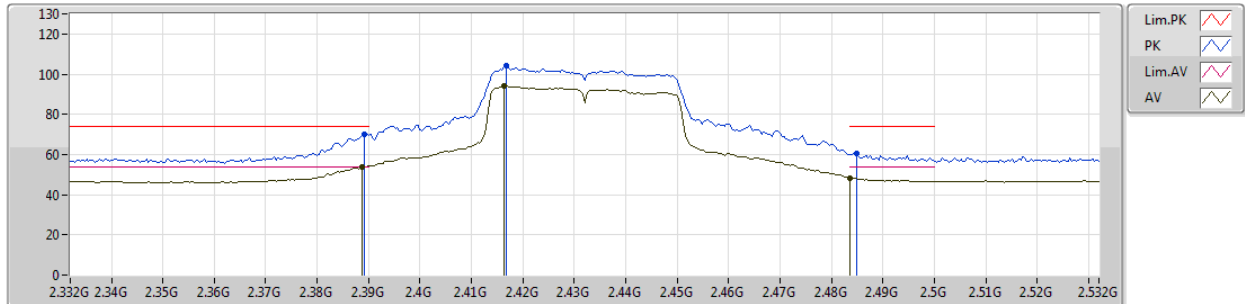
EUT_Z_1TX
Setting 51
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	69.79	74.00	-4.21	34.05	3	Horizontal	86	2.18	-
AV	2.3898G	53.49	54.00	-0.51	34.05	3	Horizontal	86	2.18	-
PK	2.4238G	103.76	Inf	-Inf	34.06	3	Horizontal	86	2.18	-
AV	2.425G	94.30	Inf	-Inf	34.06	3	Horizontal	86	2.18	-
PK	2.4854G	60.01	74.00	-13.99	34.07	3	Horizontal	86	2.18	-
AV	2.4846G	47.80	54.00	-6.20	34.07	3	Horizontal	86	2.18	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2432MHz_TX



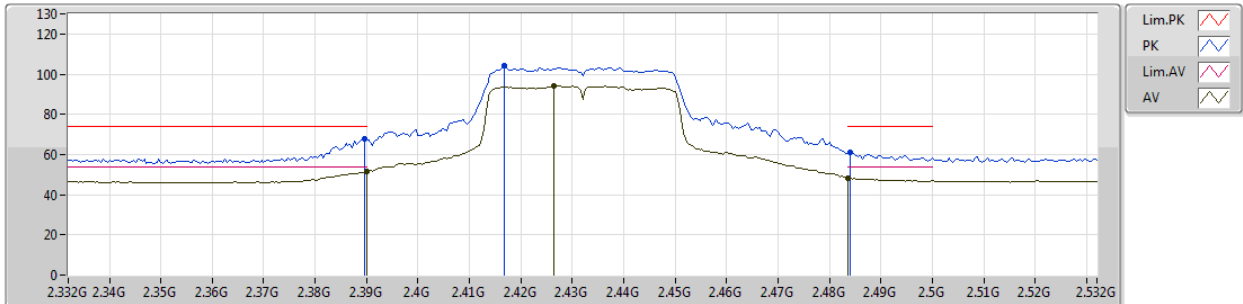
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3892G	70.25	74.00	-3.75	34.05	3	Vertical	340	1.04	-
AV	2.3888G	53.63	54.00	-0.37	34.05	3	Vertical	340	1.04	-
PK	2.4168G	104.32	Inf	-Inf	34.05	3	Vertical	340	1.04	-
AV	2.4164G	93.94	Inf	-Inf	34.05	3	Vertical	340	1.04	-
PK	2.4848G	60.48	74.00	-13.52	34.07	3	Vertical	340	1.04	-
AV	2.4836G	48.46	54.00	-5.54	34.07	3	Vertical	340	1.04	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2432MHz_TX



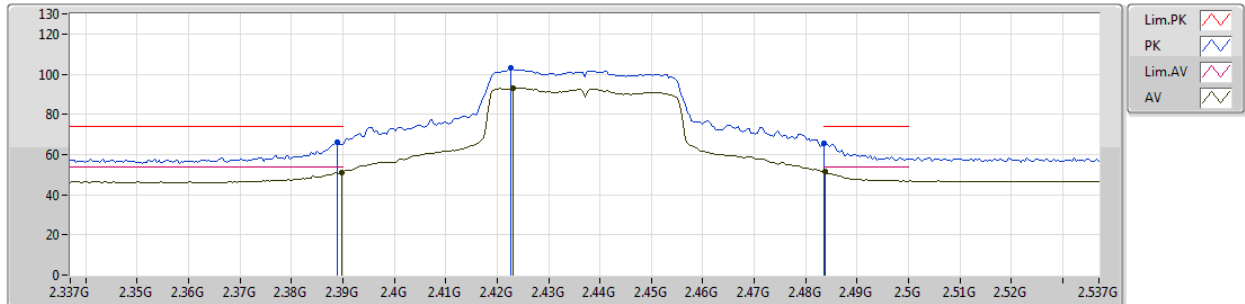
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3896G	67.56	74.00	-6.44	34.05	3	Horizontal	86	2.18	-
AV	2.39G	51.60	54.00	-2.40	34.05	3	Horizontal	86	2.18	-
PK	2.4168G	103.97	Inf	-Inf	34.05	3	Horizontal	86	2.18	-
AV	2.4264G	94.05	Inf	-Inf	34.05	3	Horizontal	86	2.18	-
PK	2.484G	60.85	74.00	-13.15	34.07	3	Horizontal	86	2.18	-
AV	2.4835G	48.43	54.00	-5.57	34.07	3	Horizontal	86	2.18	-

802.11n HT40_Nss1,(MCS0)_1TX

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2437MHz_TX



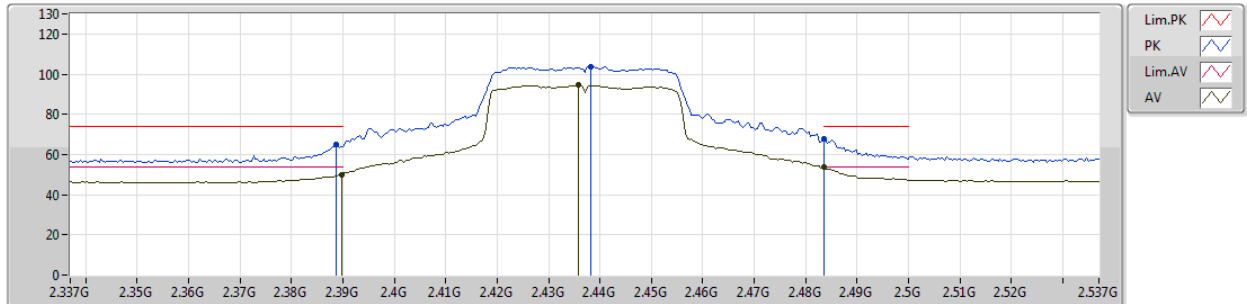
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389G	65.86	74.00	-8.14	34.05	3	Vertical	339	1.02	-
AV	2.3898G	50.94	54.00	-3.06	34.05	3	Vertical	339	1.02	-
PK	2.4226G	102.88	Inf	-Inf	34.06	3	Vertical	339	1.02	-
AV	2.423G	93.10	Inf	-Inf	34.06	3	Vertical	339	1.02	-
PK	2.4836G	65.80	74.00	-8.20	34.07	3	Vertical	339	1.02	-
AV	2.4838G	51.30	54.00	-2.70	34.07	3	Vertical	339	1.02	-

802.11n HT40_Nss1,(MCS0)_1TX

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2437MHz_TX



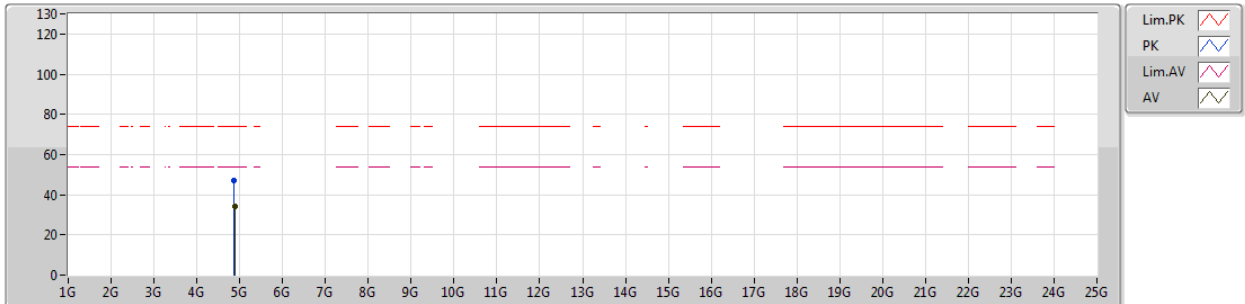
EUT_Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3886G	65.21	74.00	-8.79	34.05	3	Horizontal	88	2.16	-
AV	2.3898G	50.01	54.00	-3.99	34.05	3	Horizontal	88	2.16	-
PK	2.4382G	103.67	Inf	-Inf	34.06	3	Horizontal	88	2.16	-
AV	2.4358G	94.75	Inf	-Inf	34.06	3	Horizontal	88	2.16	-
PK	2.4836G	67.57	74.00	-6.43	34.07	3	Horizontal	88	2.16	-
AV	2.4836G	53.71	54.00	-0.29	34.07	3	Horizontal	88	2.16	-

802.11n HT40_Nss1,(MCS0)_1TX

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2437MHz_TX



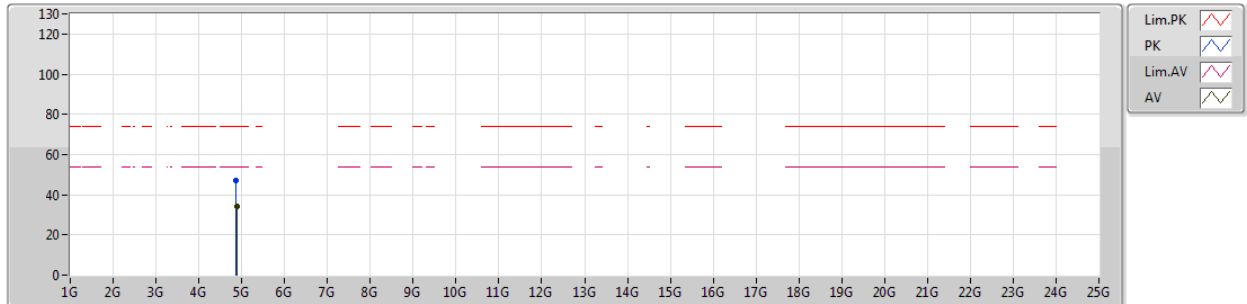
EUT Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87084G	47.10	74.00	-26.90	5.50	3	Vertical	73	1.72	-						
AV	4.88184G	34.40	54.00	-19.60	5.54	3	Vertical	73	1.72	-						

802.11n HT40_Nss1,(MCS0)_1TX

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2437MHz_TX



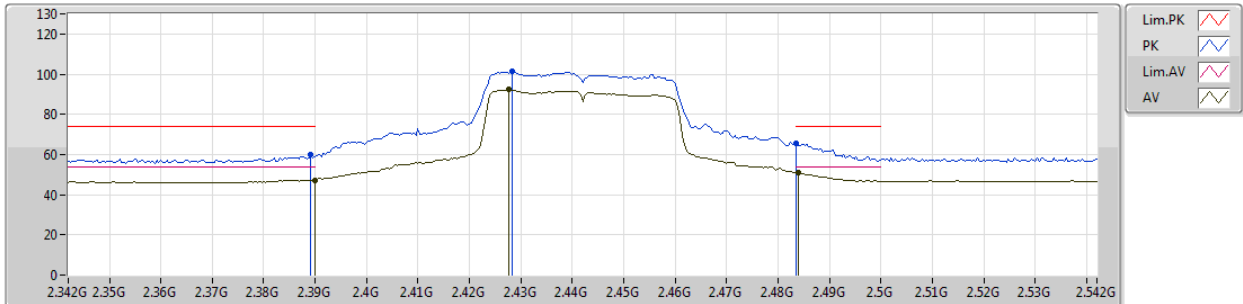
EUT Z_1TX
Setting 52
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.87152G	47.08	74.00	-26.92	5.51	3	Horizontal	312	2.42	-						
AV	4.88004G	34.43	54.00	-19.57	5.53	3	Horizontal	312	2.42	-						

802.11n HT40_Nss1,(MCS0)_1TX

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2442MHz_TX



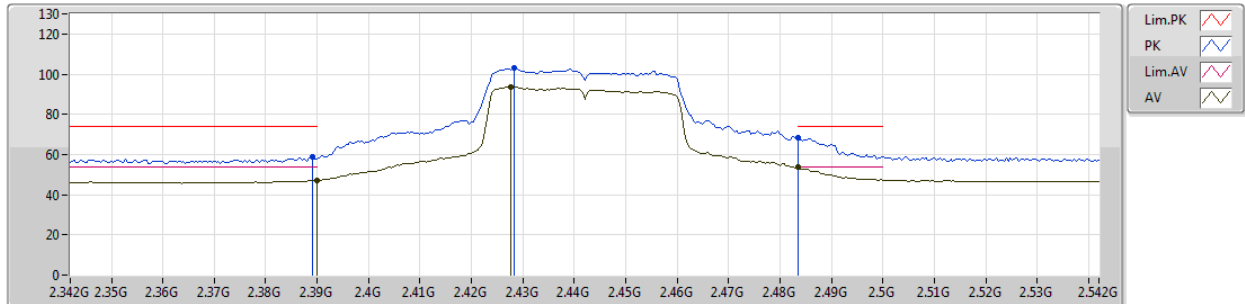
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3892G	59.96	74.00	-14.04	34.05	3	Vertical	343	1.18	-
AV	2.39G	47.30	54.00	-6.70	34.05	3	Vertical	343	1.18	-
PK	2.4284G	101.36	Inf	-Inf	34.05	3	Vertical	343	1.18	-
AV	2.4276G	92.23	Inf	-Inf	34.05	3	Vertical	343	1.18	-
PK	2.4835G	65.56	74.00	-8.44	34.07	3	Vertical	343	1.18	-
AV	2.484G	50.72	54.00	-3.28	34.07	3	Vertical	343	1.18	-

802.11n HT40_Nss1,(MCS0)_1TX

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2442MHz_TX



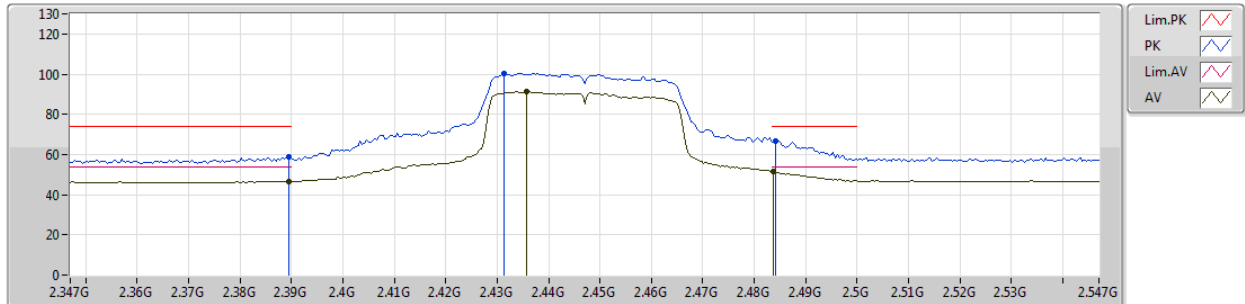
EUT_Z_1TX
Setting 50
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3892G	58.83	74.00	-15.17	34.05	3	Horizontal	94	1.73	-
AV	2.39G	47.11	54.00	-6.89	34.05	3	Horizontal	94	1.73	-
PK	2.4284G	102.97	Inf	-Inf	34.05	3	Horizontal	94	1.73	-
AV	2.4276G	93.66	Inf	-Inf	34.05	3	Horizontal	94	1.73	-
PK	2.4836G	68.62	74.00	-5.38	34.07	3	Horizontal	94	1.73	-
AV	2.4836G	53.63	54.00	-0.37	34.07	3	Horizontal	94	1.73	-

802.11n HT40_Nss1,(MCS0)_1TX

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2447MHz_TX



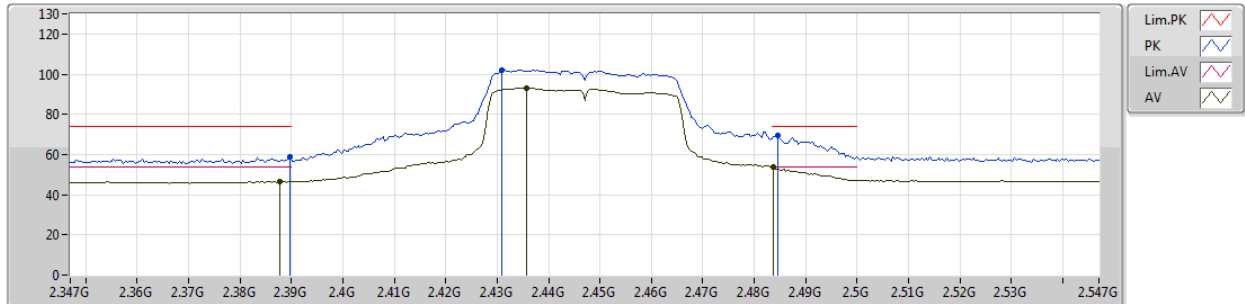
EUT_Z_1TX
Setting 49
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3894G	58.72	74.00	-15.28	34.05	3	Vertical	336	1.21	-
AV	2.3894G	46.77	54.00	-7.23	34.05	3	Vertical	336	1.21	-
PK	2.4314G	100.42	Inf	-Inf	34.06	3	Vertical	336	1.21	-
AV	2.4358G	91.19	Inf	-Inf	34.06	3	Vertical	336	1.21	-
PK	2.4842G	66.75	74.00	-7.25	34.07	3	Vertical	336	1.21	-
AV	2.4838G	51.31	54.00	-2.69	34.07	3	Vertical	336	1.21	-

802.11n HT40_Nss1,(MCS0)_1TX

2447MHz_TX

25/01/2019



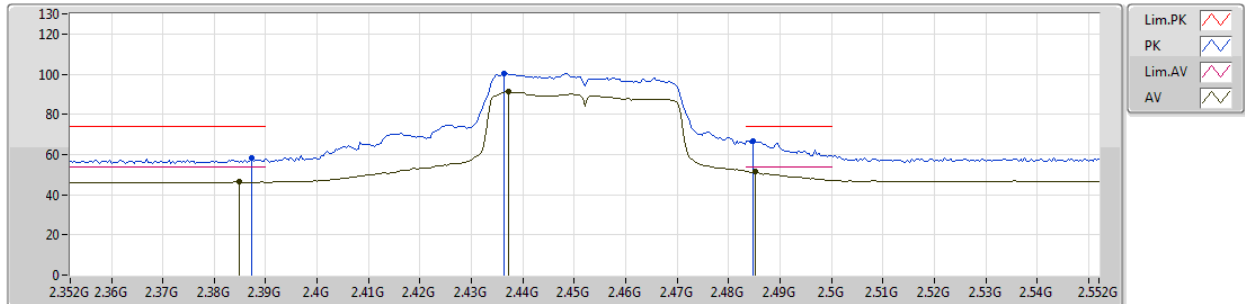
EUT_Z_1TX
Setting 49
03-5-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3898G	59.07	74.00	-14.93	34.05	3	Horizontal	85	2.16	-
AV	2.3878G	46.52	54.00	-7.48	34.05	3	Horizontal	85	2.16	-
PK	2.431G	102.22	Inf	-Inf	34.05	3	Horizontal	85	2.16	-
AV	2.4358G	93.21	Inf	-Inf	34.06	3	Horizontal	85	2.16	-
PK	2.4846G	69.40	74.00	-4.60	34.07	3	Horizontal	85	2.16	-
AV	2.4836G	53.64	54.00	-0.36	34.07	3	Horizontal	85	2.16	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2452MHz_TX



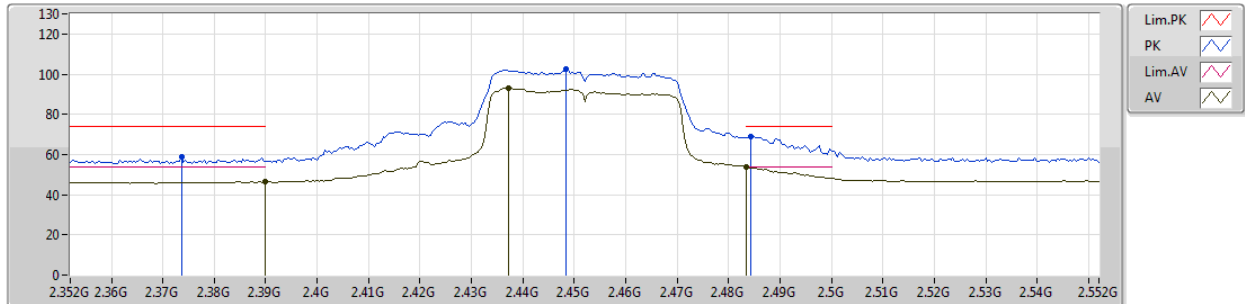
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3872G	58.14	74.00	-15.86	34.05	3	Vertical	339	1.19	-
AV	2.3848G	46.53	54.00	-7.47	34.05	3	Vertical	339	1.19	-
PK	2.4364G	100.34	Inf	-Inf	34.06	3	Vertical	339	1.19	-
AV	2.4372G	91.16	Inf	-Inf	34.06	3	Vertical	339	1.19	-
PK	2.4848G	66.74	74.00	-7.26	34.07	3	Vertical	339	1.19	-
AV	2.4852G	51.36	54.00	-2.64	34.07	3	Vertical	339	1.19	-

802.11n HT40_Nss1,(MCS0)_1TX

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2452MHz_TX



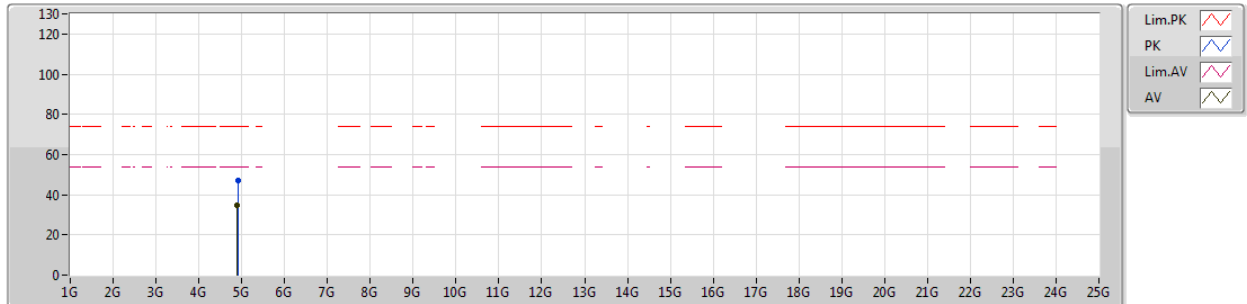
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3736G	58.70	74.00	-15.30	34.05	3	Horizontal	86	2.17	-
AV	2.39G	46.45	54.00	-7.55	34.05	3	Horizontal	86	2.17	-
PK	2.4484G	102.32	Inf	-Inf	34.06	3	Horizontal	86	2.17	-
AV	2.4372G	92.98	Inf	-Inf	34.06	3	Horizontal	86	2.17	-
PK	2.4844G	69.06	74.00	-4.94	34.07	3	Horizontal	86	2.17	-
AV	2.4835G	53.72	54.00	-0.28	34.07	3	Horizontal	86	2.17	-

802.11n HT40_Nss1,(MCS0)_1TX

25/01/2019

2452MHz_TX



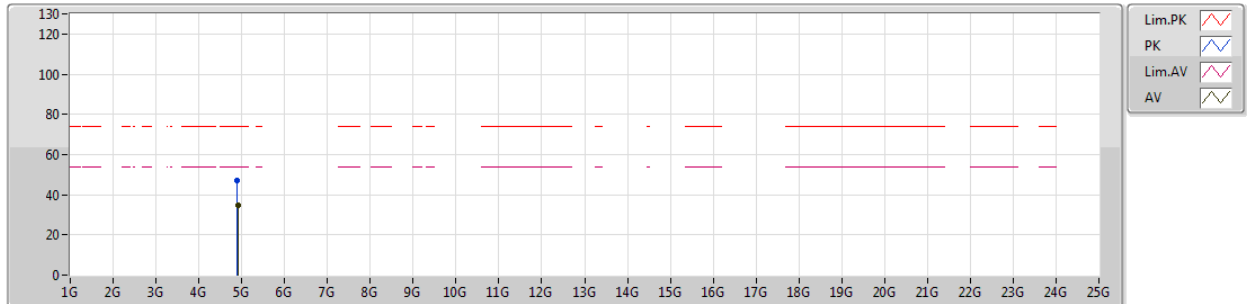
EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.90372G	46.95	74.00	-27.05	5.62	3	Vertical	126	1.02	-						
AV	4.90284G	34.61	54.00	-19.39	5.62	3	Vertical	126	1.02	-						

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EUT_Z_1TX
Setting 48
03-S-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments						
PK	4.9004G	47.32	74.00	-26.68	5.61	3	Horizontal	87	1.70	-						
AV	4.90492G	34.68	54.00	-19.32	5.63	3	Horizontal	87	1.70	-						