FCC RADIO TEST REPORT

FCC ID	:	Q87-03431
Equipment	:	LINKSYS Smart Wi-Fi Router AC1200
Brand Name	:	LINKSYS
Model Name	:	EA6350 V4
Applicant	:	Linksys LLC 121 Theory Drive, Irvine, CA 92617, USA
Standard	:	47 CFR FCC Part 15.247

The product was received on May 23, 2019, and testing was started from Jun. 18, 2019 and completed on Jul. 08, 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.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR932530AA	01	Initial issue of report	Aug. 08, 2019

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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Cindy Peng

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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- 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	P/N	Antenna Type	Connector	Gain (dBi)	
						2.4Gz	5GHz
1	1	FIT	4TS2449-A0001-JH	Dipole Antenna	I-PEX	2.88	3.32
2	2	FIT	4TS2449-A0001-JH	Dipole Antenna	I-PEX	2.36	3.22

Note1: The above information was declared by manufacturer.

Note2: The EUT has two antennas.

For WLAN 2.4GHz (2TX/2RX):

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz (2TX/2RX):

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.984	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.905	0.43	1.4m	1k
802.11n HT20	0.893	0.49	1.313m	1k
802.11n HT40	0.827	0.82	652.5u	3k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 802.11n/ac in 5GHz band.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	MT7603 QA 0.0.0.96			

Note: The above information was declared by manufacturer.

1.1.5 EUT Supports Type

The EUT supports Master (AP router, Bridge) functions, only the Master (AP router) was performed for AC power-line conducted emissions test, and it was based on manufacturer's request.

1.2 Applicable 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 v05r02
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☐	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
☒	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	TH02-CB	Owen Hsu	22~24°C / 50~54%	Jun. 20, 2019~Jul. 03, 2019
Radiated below 1GHz	03CH06-CB	KJ Chang	24~27°C / 48~58%	Jun. 19, 2019~Jul. 08, 2019
Radiated above 1GHz	03CH01-CB	KJ Chang	21~25°C / 52~62%	Jun. 19, 2019~Jul. 08, 2019
AC Conduction	CO01-CB	GN Hou	21.6~22.1°C / 64~68%	Jun. 18, 2019

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086B 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)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	27
2417MHz	28
2437MHz	28
2457MHz	27
2462MHz	27
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	21
2417MHz	25
2437MHz	28
2457MHz	23
2462MHz	1D
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	1C
2417MHz	24
2437MHz	28
2457MHz	23
2462MHz	1B
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	15
2427MHz	18
2437MHz	1E
2447MHz	19
2452MHz	17

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT + Adapter 1
2	EUT + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT can be placed in Y axis and Z axis. After evaluating, “Y axis” generated the worst test result for Emissions in Restricted Frequency Bands above 1GHz test, so the measurement will follow this same test configuration.	
1	EUT Y axis with WLAN 2.4GHz + Adapter 1
2	EUT Y axis with WLAN 2.4GHz + Adapter 2
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT Y axis with WLAN 5GHz + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT Y axis
2	EUT Z axis
Mode 1 has been evaluated to be the worst case after evaluating. Consequently, measurement will follow this same test mode.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
The EUT can be placed in Y axis and Z axis. After evaluating, “Y axis” generated the worst test result for Emissions in Restricted Frequency Bands above 1GHz test, so the measurement will follow this same test configuration.	
Operating Mode	Normal Link
1	EUT Y axis with WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA932530 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Rating**
1	Adapter	Ktec	KSA-18W-120150VU	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 12V, 1.5A
2	Adapter	LEI	MU18B1120150-A1	INPUT: 100-240V~50/60Hz, 0.6A OUTPUT: 12V, 1.5A
No.	**Other**			
3	RJ-45 cable*1: Non-shielded, 0.9m			

2.5 Support Equipment

For AC Conduction:

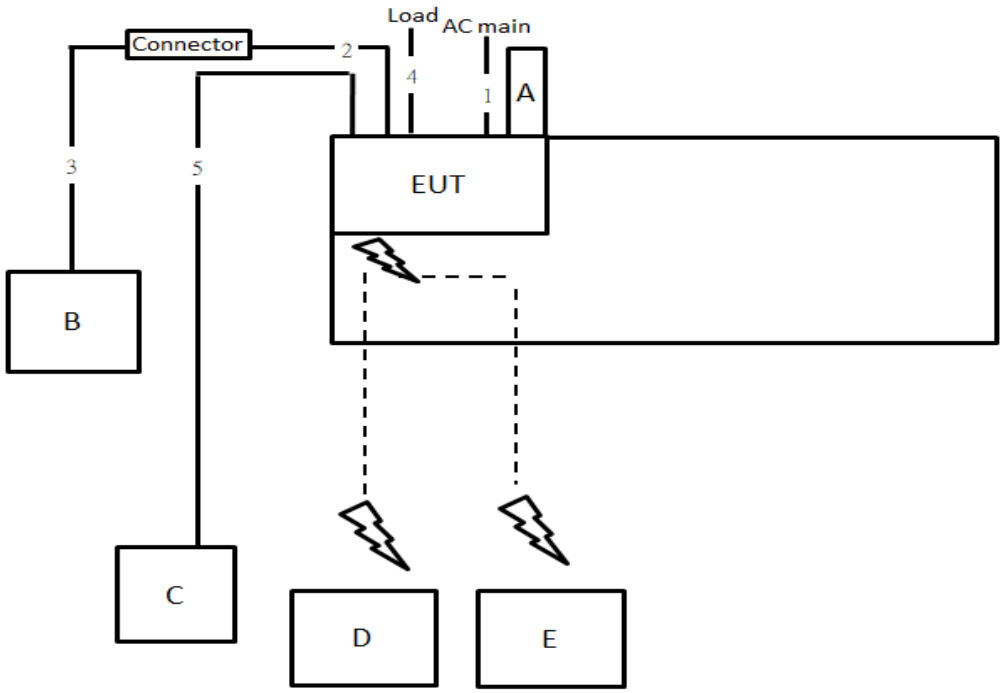
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	WAN NB	DELL	E6430	N/A
C	LAN NB	DELL	E6430	N/A
D	2.4G NB	DELL	E6430	N/A
E	5G NB	DELL	E6430	N/A

For Radiated and RF Conducted:

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

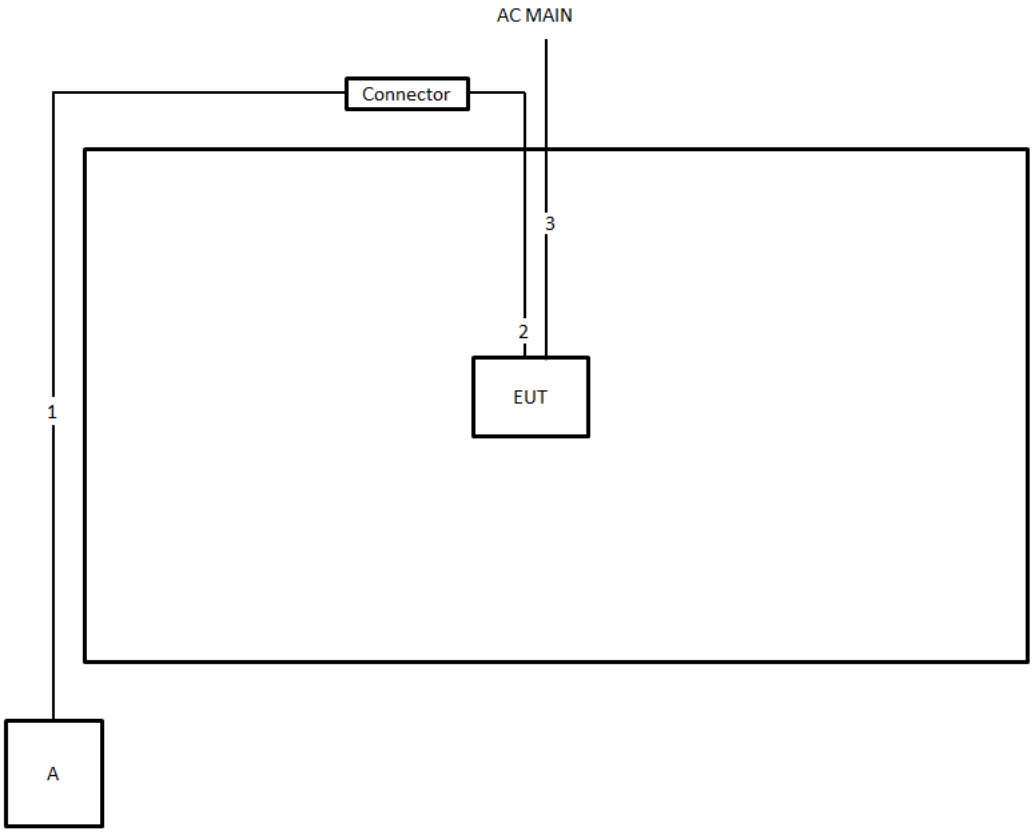
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



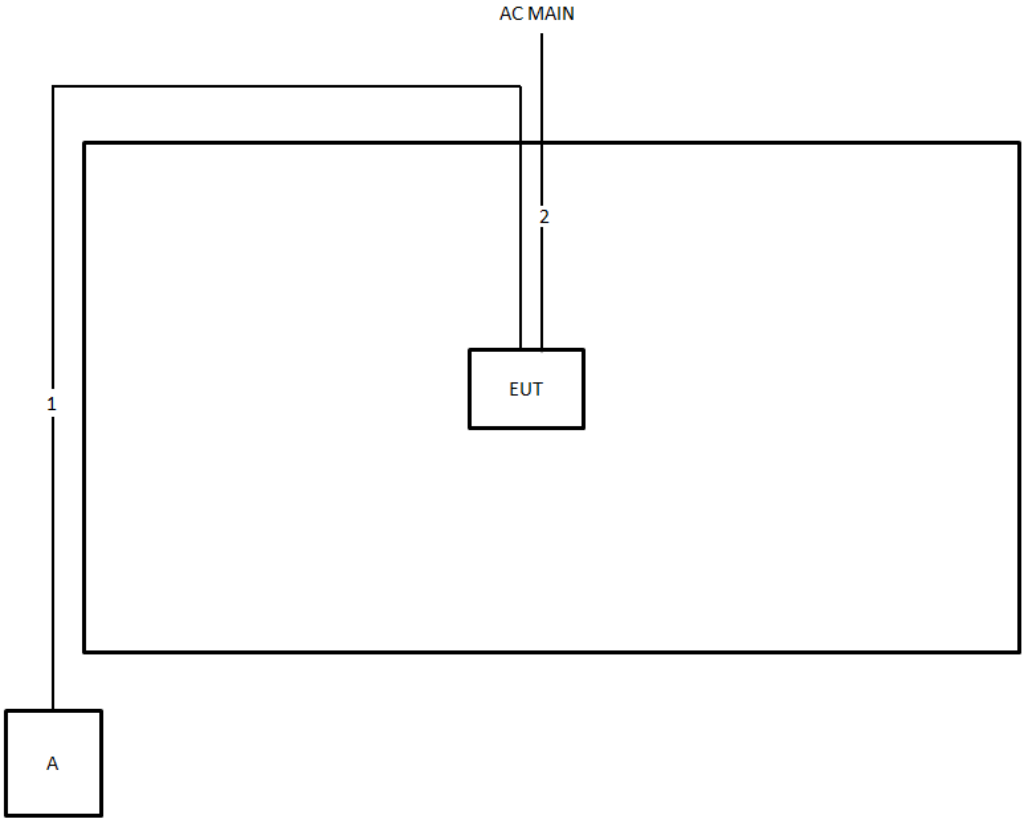
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	0.9m
3	RJ-45 cable	No	10m
4	RJ-45 cable*3	No	1.5m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	0.9m
3	Power cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

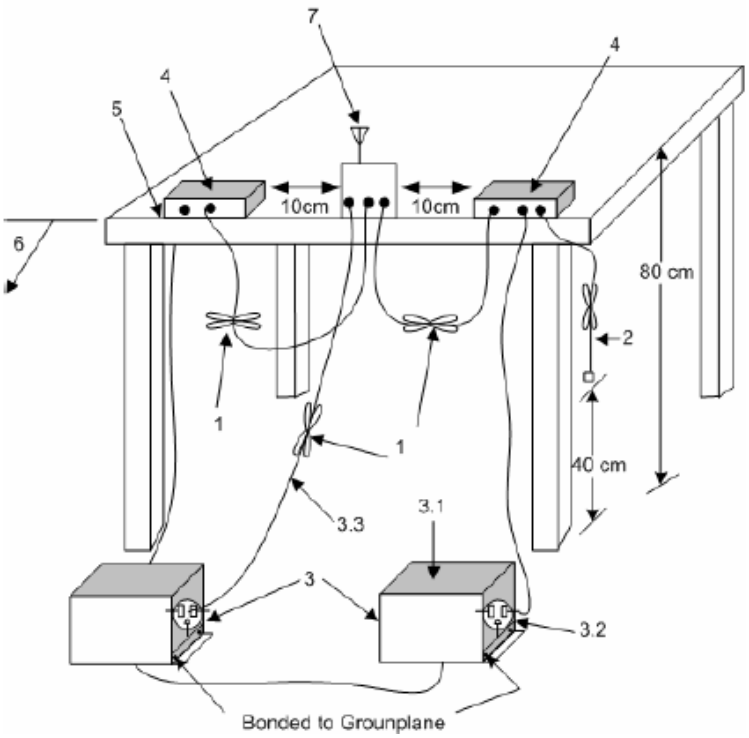
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



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

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

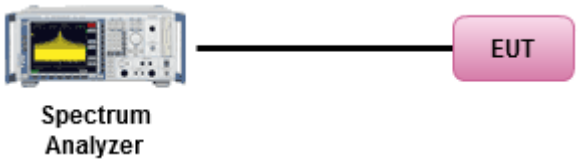
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ 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
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ 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)
	☒ 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).
	☐ 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).

▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

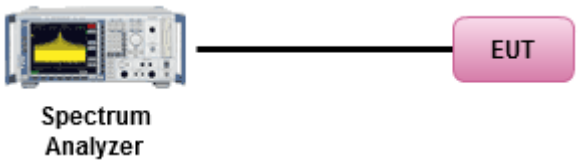
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
	☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD.
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
	☐ 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
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
	☐ 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:
	☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
	☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,

		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

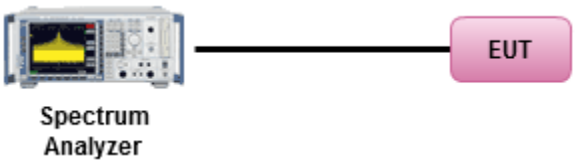
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

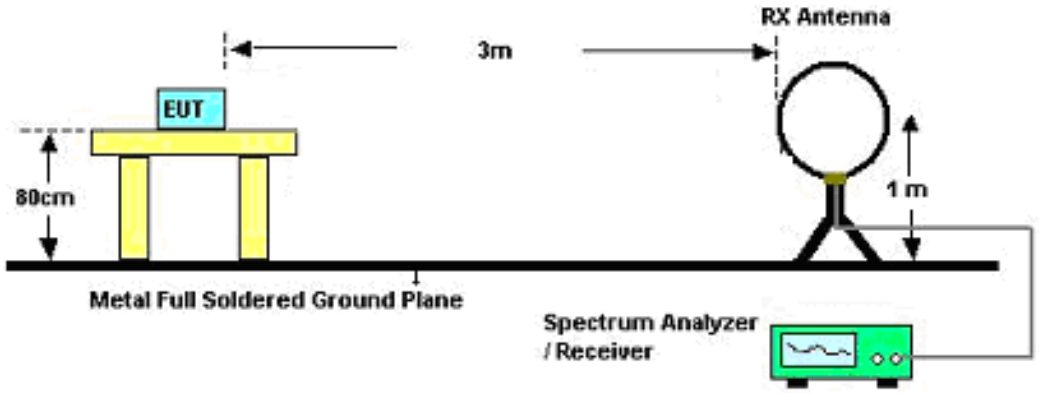
3.6.3 Test Procedures

Test Method		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
		☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
		☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
		☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 558074 clause 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.	
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.	
	▪ 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).	
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB	
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.	

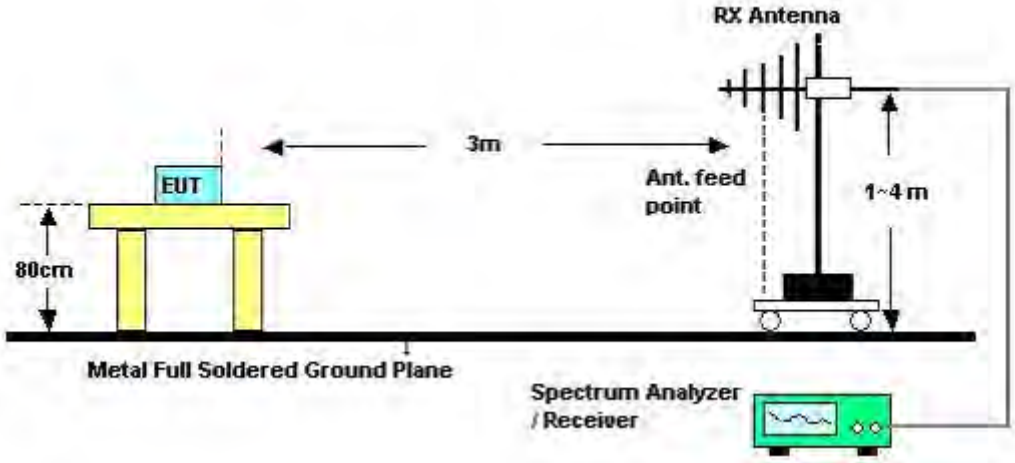
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

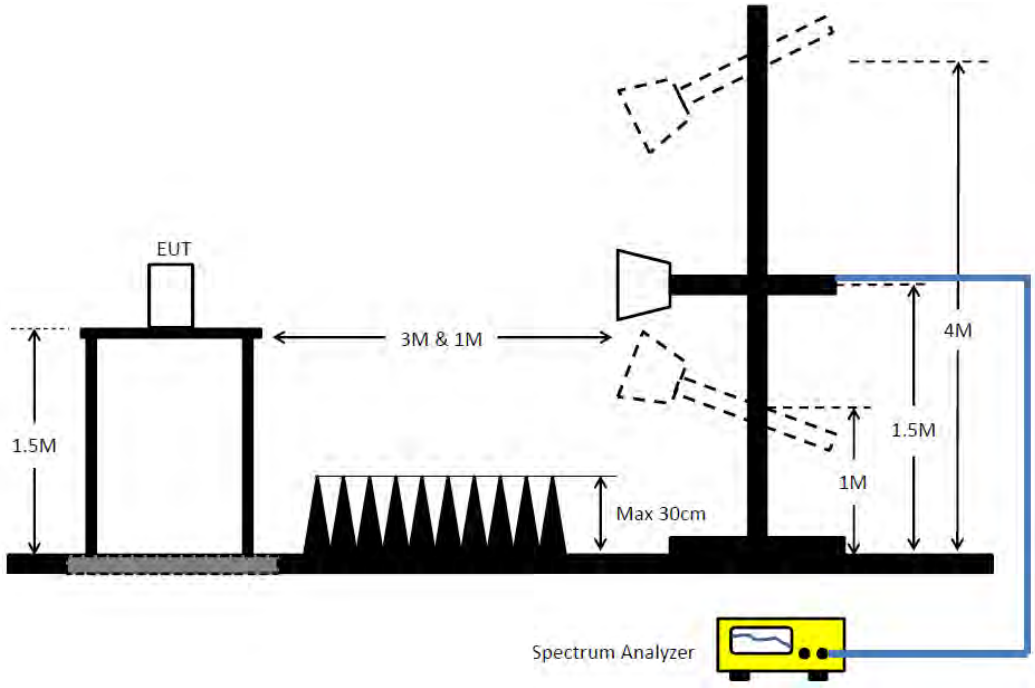
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.6.6 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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

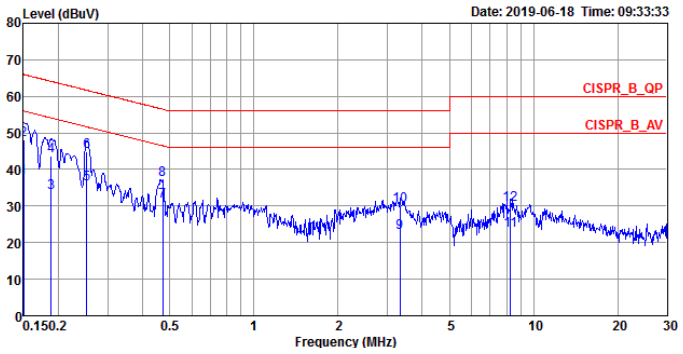
4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50 -16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 04, 2018	Aug. 03, 2019	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	May 07, 2019	May 06, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jun. 26, 2019	Jun. 25, 2020	Radiation (03CH06-CB)
RF Cable-low	HUBER+SUHNER	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-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)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	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)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.
N.C.R. means Non-Calibration required.

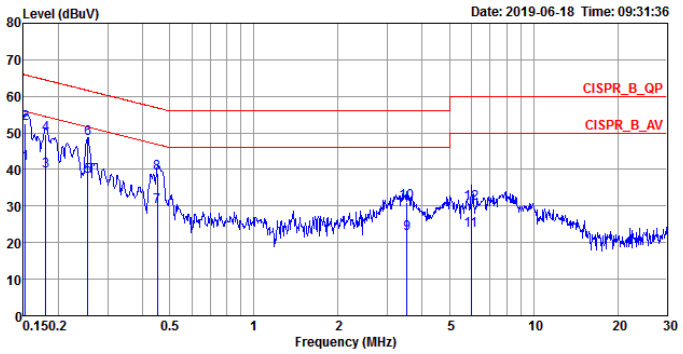
AC Power-line Conducted Emissions Result			
Operating Mode	2	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	37.82	-18.18	56.00	27.92	9.84	0.06	Average	LINE
2	0.1500	48.06	-17.94	66.00	38.16	9.84	0.06	QP	LINE
3	0.1884	33.65	-20.46	54.11	23.74	9.85	0.06	Average	LINE
4	0.1884	43.81	-20.30	64.11	33.90	9.85	0.06	QP	LINE
5	0.2521	35.94	-15.75	51.69	26.02	9.86	0.06	Average	LINE
6	0.2521	44.79	-16.90	61.69	34.87	9.86	0.06	QP	LINE
7	0.4711	31.15	-15.34	46.49	21.21	9.87	0.07	Average	LINE
8	0.4711	37.20	-19.29	56.49	27.26	9.87	0.07	QP	LINE
9	3.3281	22.75	-23.25	46.00	12.66	9.93	0.16	Average	LINE
10	3.3281	29.98	-26.02	56.00	19.89	9.93	0.16	QP	LINE
11	8.2789	23.40	-26.60	50.00	13.09	10.09	0.22	Average	LINE
12	8.2789	30.31	-29.69	60.00	20.00	10.09	0.22	QP	LINE

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

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



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1524	41.57	-14.30	55.87	31.68	9.83	0.06	Average	NEUTRAL
2	0.1524	52.43	-13.44	65.87	42.54	9.83	0.06	QP	NEUTRAL
3	0.1806	39.45	-15.01	54.46	29.56	9.83	0.06	Average	NEUTRAL
4	0.1806	49.50	-14.96	64.46	39.61	9.83	0.06	QP	NEUTRAL
5	0.2548	38.10	-13.50	51.60	28.20	9.84	0.06	Average	NEUTRAL
6	0.2548	48.55	-13.05	61.60	38.65	9.84	0.06	QP	NEUTRAL
7	0.4516	29.86	-16.99	46.85	19.95	9.85	0.06	Average	NEUTRAL
8	0.4516	38.85	-18.00	56.85	28.94	9.85	0.06	QP	NEUTRAL
9	3.5278	22.45	-23.55	46.00	12.38	9.91	0.16	Average	NEUTRAL
10	3.5278	30.94	-25.06	56.00	20.87	9.91	0.16	QP	NEUTRAL
11	5.9925	23.31	-26.69	50.00	13.11	10.00	0.20	Average	NEUTRAL
12	5.9925	30.56	-29.44	60.00	20.36	10.00	0.20	QP	NEUTRAL

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

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)_2TX	10.075M	15.667M	15M7G1D	10.05M	14.968M
802.11g_Nss1,(6Mbps)_2TX	15.1M	20.94M	20M9D1D	14.425M	16.342M
802.11n HT20_Nss1,(MCS0)_2TX	15.675M	21.964M	22M0D1D	15.025M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.05M	35.932M	35M9D1D	35M	35.832M

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

Result

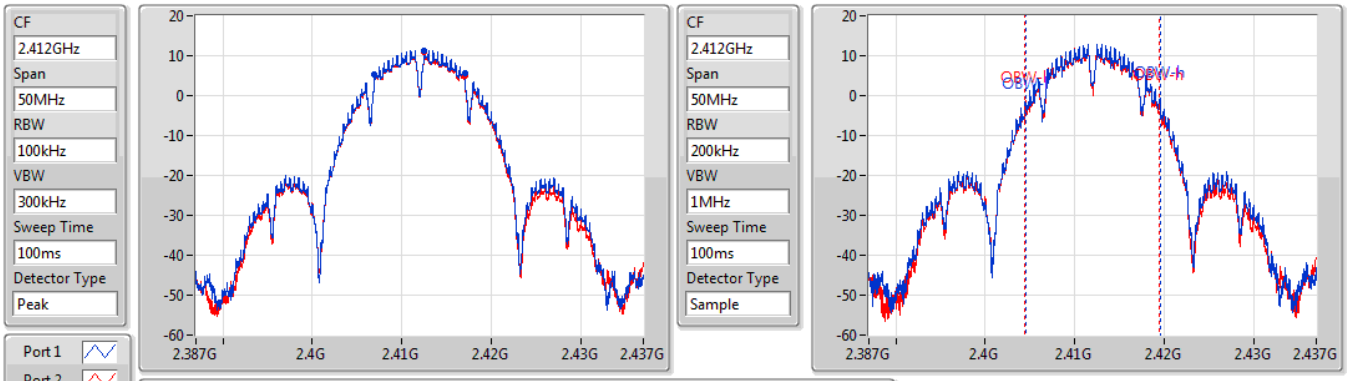
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.075M	14.993M	10.075M	14.993M
2437MHz	Pass	500k	10.075M	15.542M	10.075M	15.667M
2462MHz	Pass	500k	10.05M	15.017M	10.05M	14.968M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.025M	16.467M	14.975M	16.467M
2437MHz	Pass	500k	15.1M	20.94M	15.1M	19.865M
2462MHz	Pass	500k	15.025M	16.392M	14.425M	16.342M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.05M	17.566M	15.675M	17.516M
2437MHz	Pass	500k	15.075M	21.964M	15.05M	21.089M
2462MHz	Pass	500k	15.05M	17.516M	15.025M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35M	35.882M	35.05M	35.882M
2437MHz	Pass	500k	35.05M	35.882M	35M	35.932M
2452MHz	Pass	500k	35.05M	35.882M	35.05M	35.832M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

19/06/2019

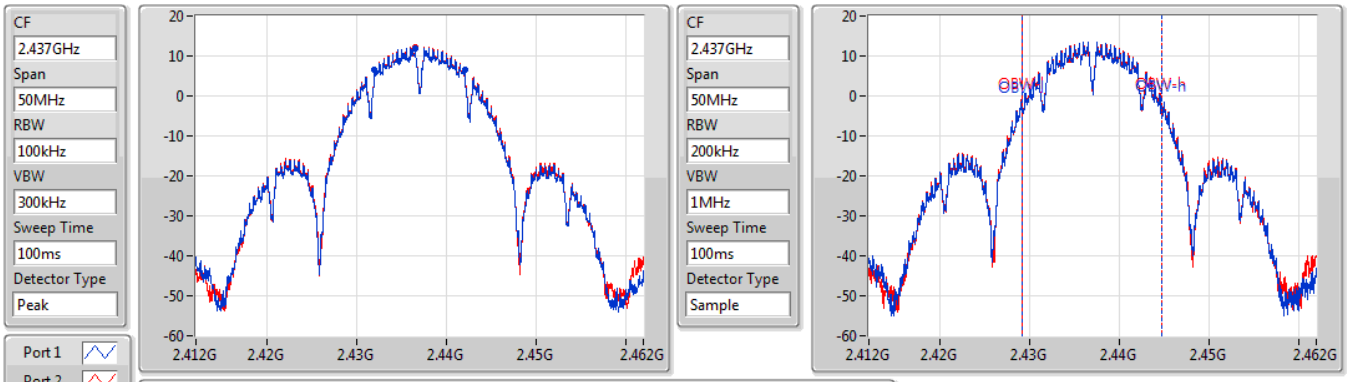


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.406975G	2.41705G	14.993M	2.404529G	2.419521G	500k	1
10.075M	2.406975G	2.41705G	14.993M	2.404479G	2.419471G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

19/06/2019

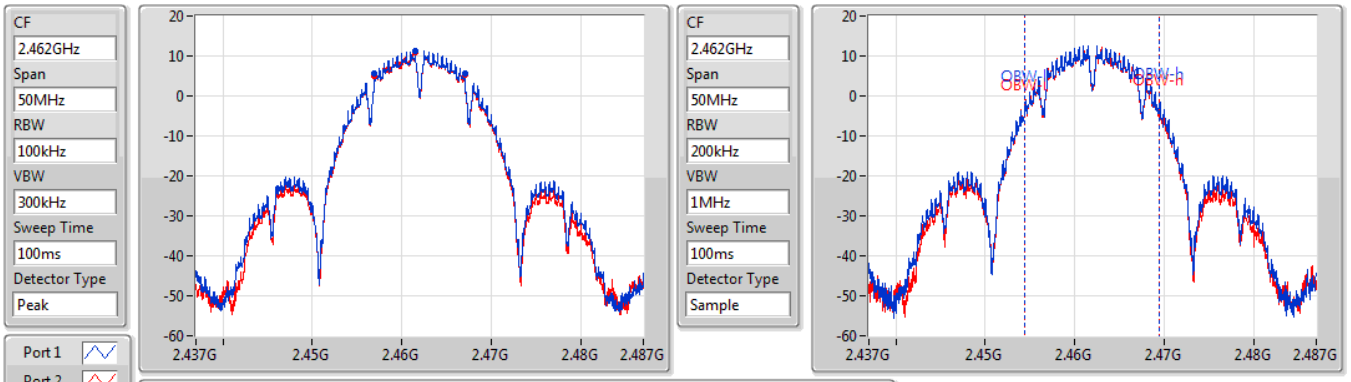


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.431975G	2.44205G	15.542M	2.429129G	2.444671G	500k	1
10.075M	2.431975G	2.44205G	15.667M	2.429104G	2.444771G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

19/06/2019

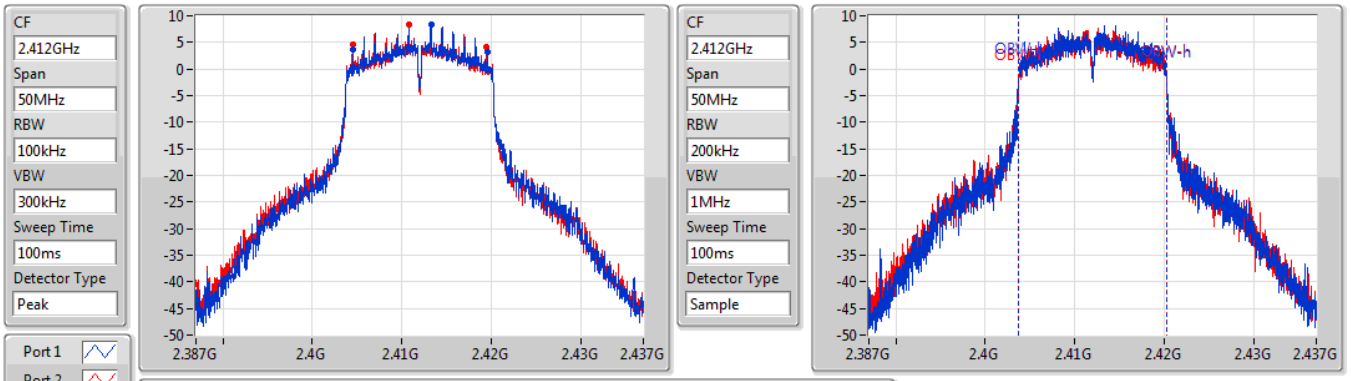


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.456975G	2.467025G	15.017M	2.454479G	2.469496G	500k	1
10.05M	2.456975G	2.467025G	14.968M	2.454479G	2.469446G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

19/06/2019

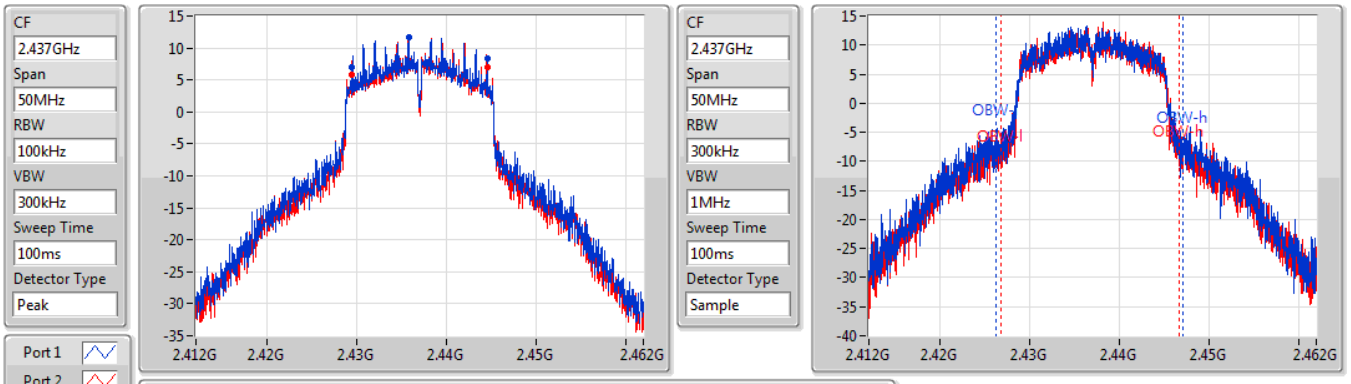


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	2.40455G	2.419575G	16.467M	2.403754G	2.420221G	500k	1
14.975M	2.4045G	2.419475G	16.467M	2.403754G	2.420221G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

19/06/2019

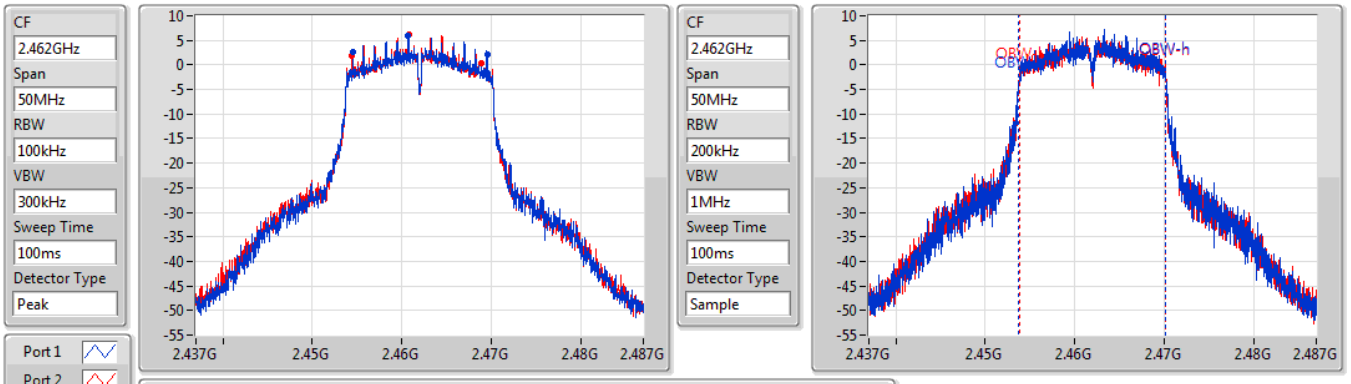


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.42945G	2.44455G	20.94M	2.426205G	2.447145G	500k	1
15.1M	2.42945G	2.44455G	19.865M	2.426755G	2.44662G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

19/06/2019

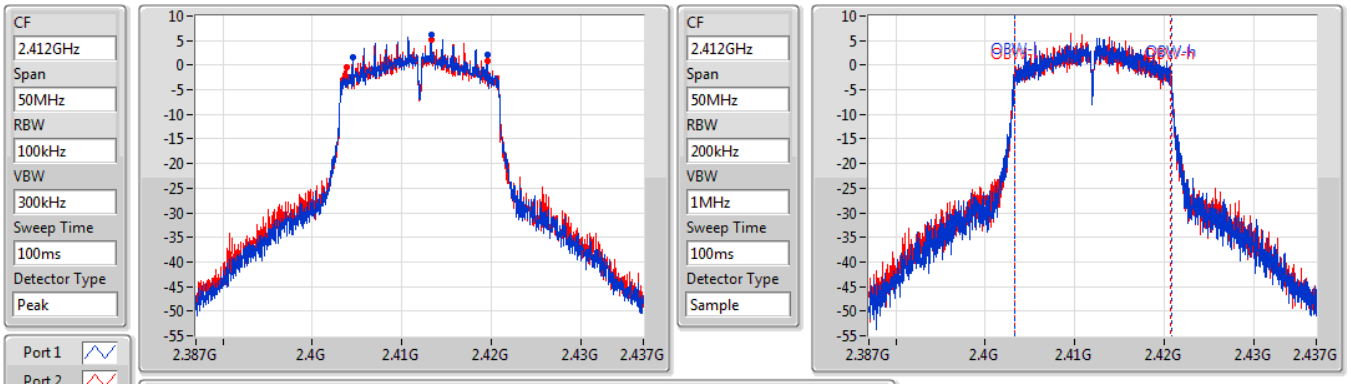


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	2.454525G	2.46955G	16.392M	2.453779G	2.470171G	500k	1
14.425M	2.454475G	2.4689G	16.342M	2.453804G	2.470146G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2412MHz

19/06/2019

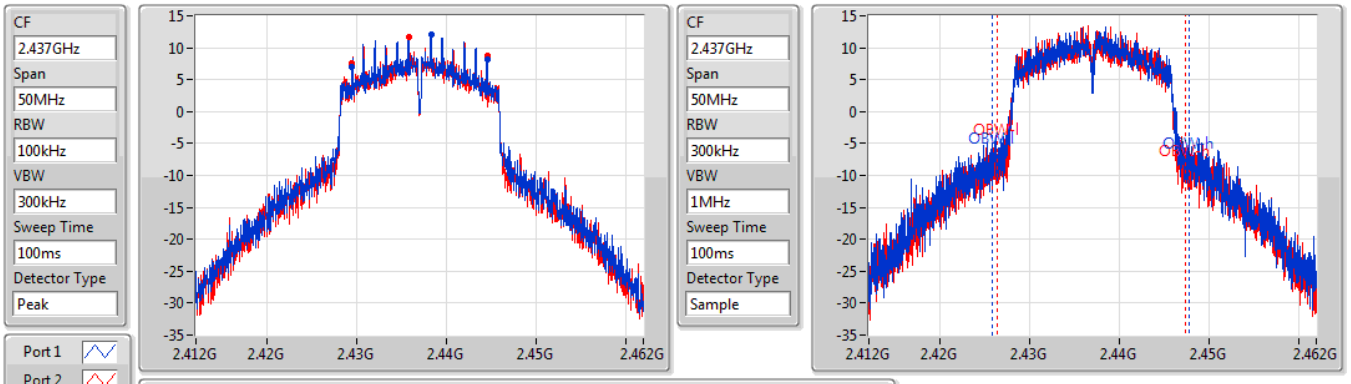


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.4045G	2.41955G	17.566M	2.403229G	2.420796G	500k	1
15.675M	2.403875G	2.41955G	17.516M	2.403229G	2.420746G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2437MHz

19/06/2019

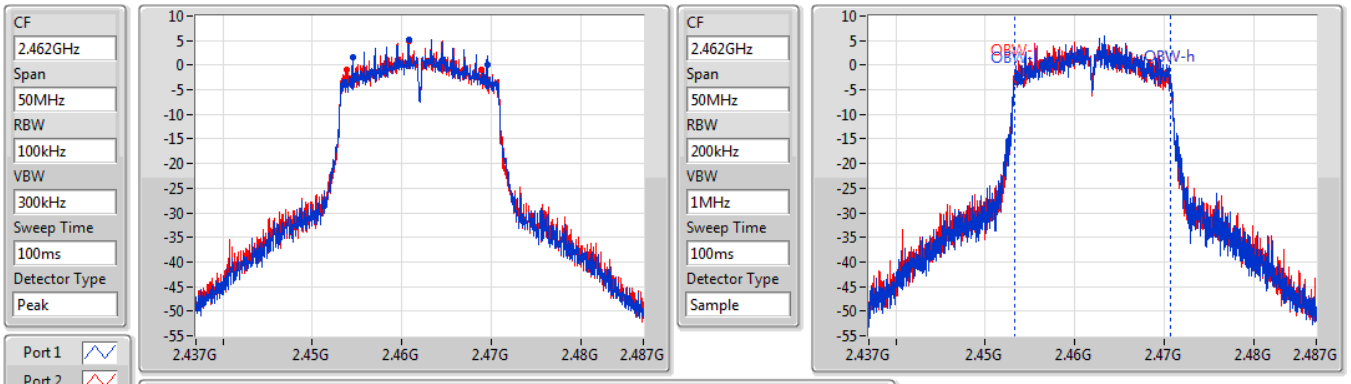


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.42945G	2.444525G	21.964M	2.425806G	2.44777G	500k	1
15.05M	2.429475G	2.444525G	21.089M	2.426305G	2.447395G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX EBW

2462MHz

19/06/2019

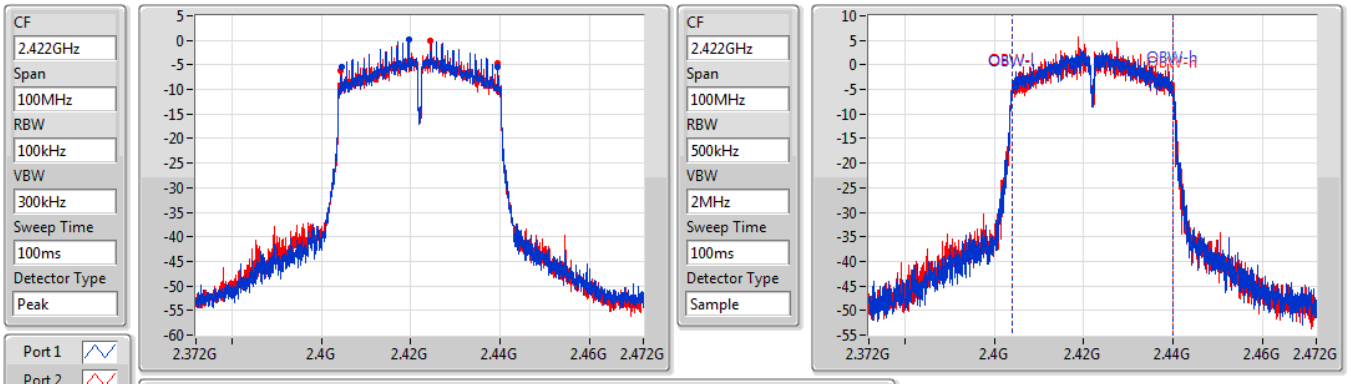


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.4545G	2.46955G	17.516M	2.453229G	2.470746G	500k	1
15.025M	2.453875G	2.4689G	17.516M	2.453229G	2.470746G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2422MHz

19/06/2019

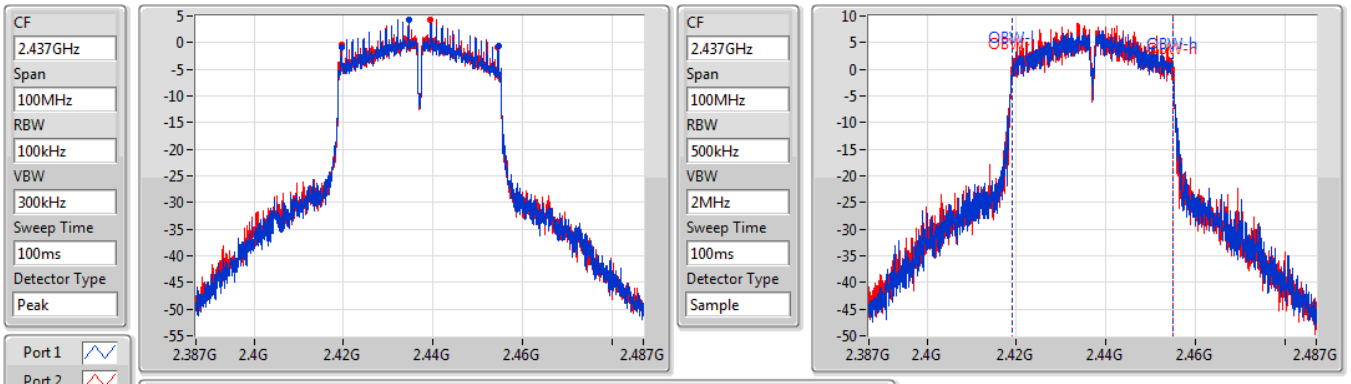


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	2.4045G	2.4395G	35.882M	2.404059G	2.439941G	500k	1
35.05M	2.40445G	2.4395G	35.882M	2.404059G	2.439941G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2437MHz

19/06/2019

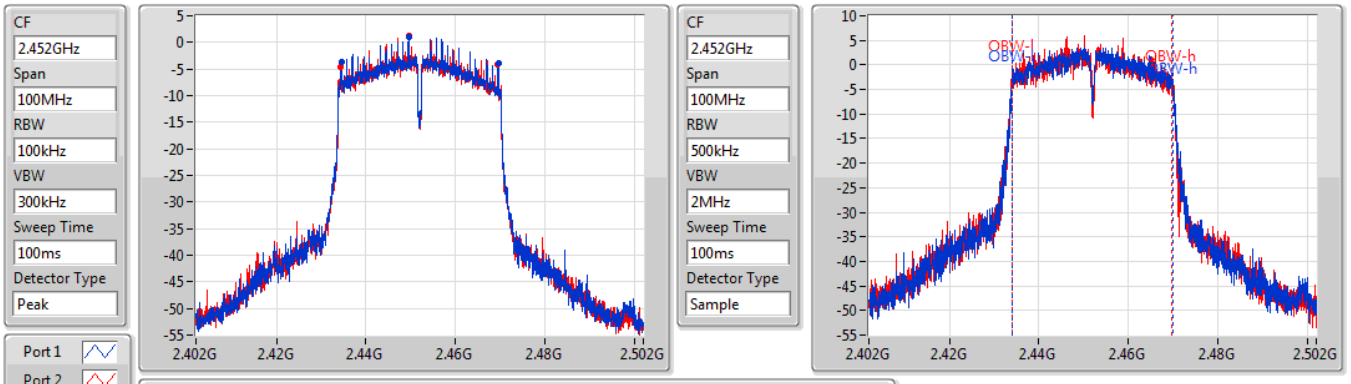


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.4195G	2.45455G	35.882M	2.419009G	2.454891G	500k	1
35M	2.4195G	2.4545G	35.932M	2.419009G	2.454941G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX EBW

2452MHz

19/06/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.4345G	2.46955G	35.882M	2.434009G	2.469891G	500k	1
35.05M	2.43445G	2.4695G	35.832M	2.433959G	2.469791G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.47	0.35237
802.11g_Nss1,(6Mbps)_2TX	25.06	0.32063
802.11n HT20_Nss1,(MCS0)_2TX	25.08	0.32211
802.11n HT40_Nss1,(MCS0)_2TX	20.29	0.10691

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.88	21.74	21.58	24.67	30.00
2417MHz	Pass	2.88	22.40	22.37	25.40	30.00
2437MHz	Pass	2.88	22.44	22.47	25.47	30.00
2457MHz	Pass	2.88	22.38	22.27	25.34	30.00
2462MHz	Pass	2.88	21.58	21.39	24.50	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.88	18.96	18.60	21.79	30.00
2417MHz	Pass	2.88	20.46	20.18	23.33	30.00
2437MHz	Pass	2.88	22.23	21.87	25.06	30.00
2457MHz	Pass	2.88	19.42	19.17	22.31	30.00
2462MHz	Pass	2.88	16.69	16.66	19.69	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.88	16.24	16.20	19.23	30.00
2417MHz	Pass	2.88	19.75	19.52	22.65	30.00
2437MHz	Pass	2.88	22.05	22.08	25.08	30.00
2457MHz	Pass	2.88	19.12	19.31	22.23	30.00
2462MHz	Pass	2.88	15.55	15.69	18.63	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.88	13.03	12.79	15.92	30.00
2427MHz	Pass	2.88	14.24	14.29	17.28	30.00
2437MHz	Pass	2.88	17.30	17.26	20.29	30.00
2447MHz	Pass	2.88	14.70	14.82	17.77	30.00
2452MHz	Pass	2.88	13.84	13.71	16.79	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-6.30
802.11g_Nss1,(6Mbps)_2TX	-2.13
802.11n HT20_Nss1,(MCS0)_2TX	-1.91
802.11n HT40_Nss1,(MCS0)_2TX	-8.67

RBW=3 kHz.

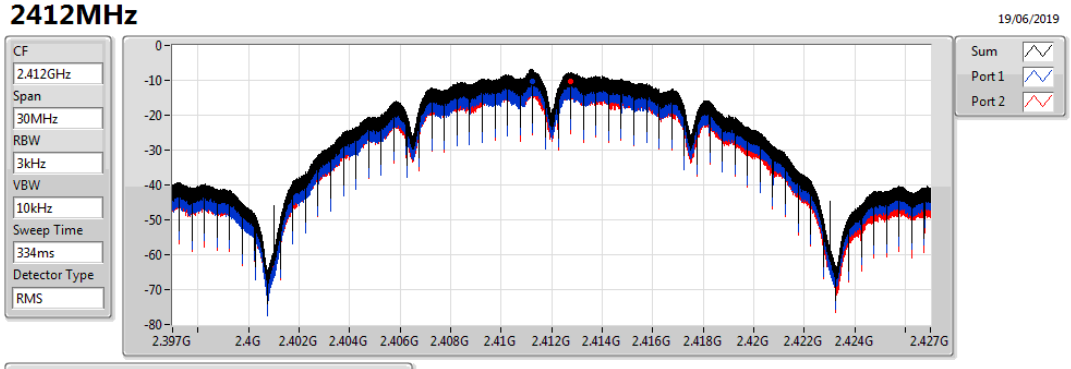
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.63	-10.25	-10.43	-7.53	8.00
2437MHz	Pass	5.63	-9.23	-9.15	-6.30	8.00
2462MHz	Pass	5.63	-10.71	-10.71	-7.78	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.63	-8.24	-8.15	-6.48	8.00
2437MHz	Pass	5.63	-4.40	-5.12	-2.13	8.00
2462MHz	Pass	5.63	-10.50	-8.71	-8.01	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.63	-9.64	-9.75	-7.98	8.00
2437MHz	Pass	5.63	-4.03	-4.83	-1.91	8.00
2462MHz	Pass	5.63	-10.15	-10.40	-8.72	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.63	-16.68	-16.24	-13.76	8.00
2437MHz	Pass	5.63	-11.66	-11.31	-8.67	8.00
2452MHz	Pass	5.63	-16.17	-15.74	-13.11	8.00

DG = Directional Gain; RBW=3 kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX **PSD**

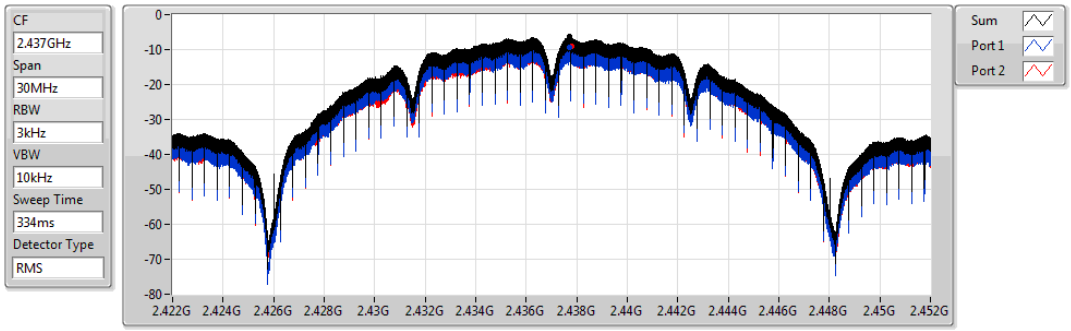
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.53	-7.53	-10.25	-10.43

802.11b_Nss1,(1Mbps)_2TX **PSD**

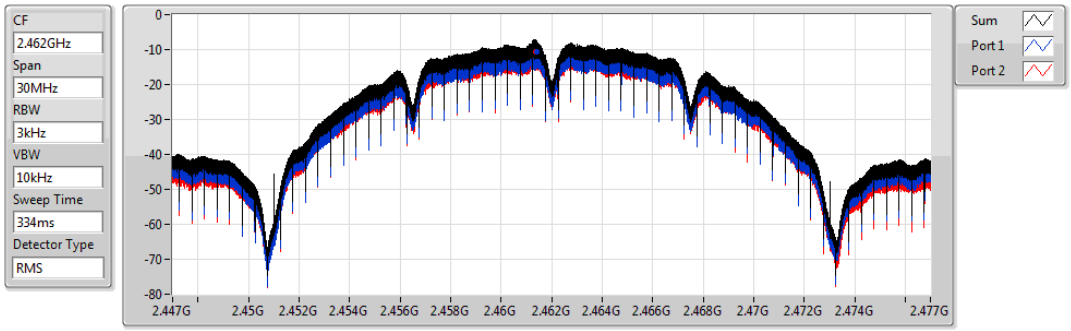
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.30	-6.30	-9.23	-9.15

802.11b_Nss1,(1Mbps)_2TX **PSD**

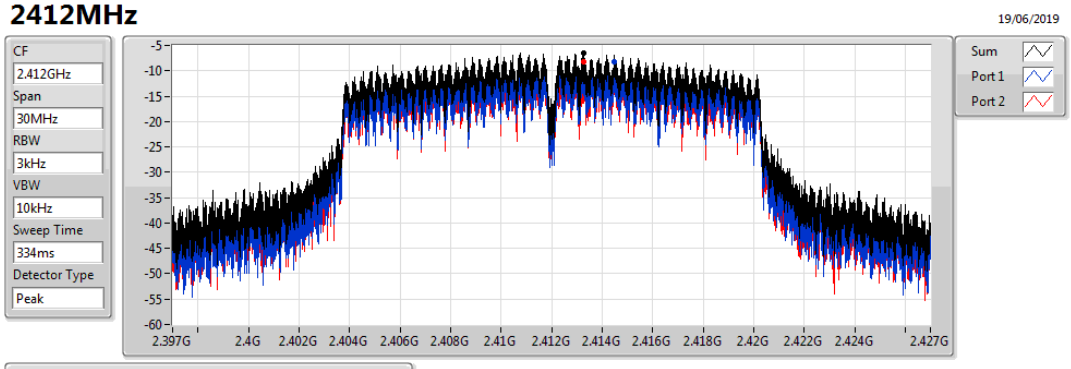
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.78	-7.78	-10.71	-10.71

802.11g_Nss1,(6Mbps)_2TX PSD

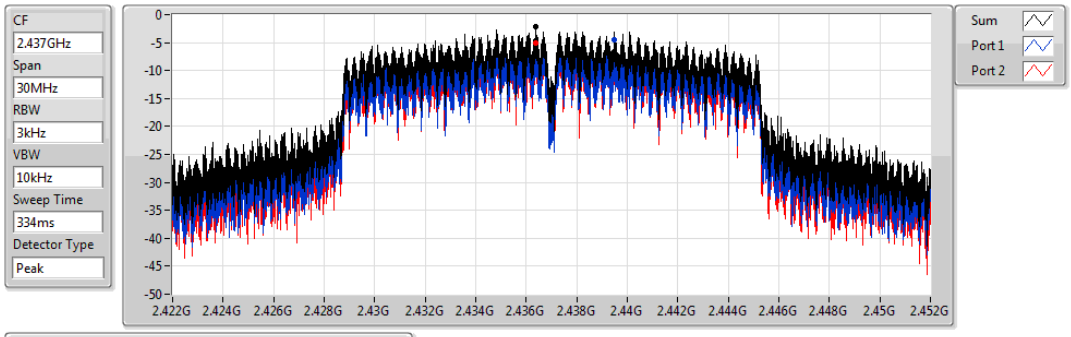
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.48	-6.48	-8.24	-8.15

802.11g_Nss1,(6Mbps)_2TX PSD

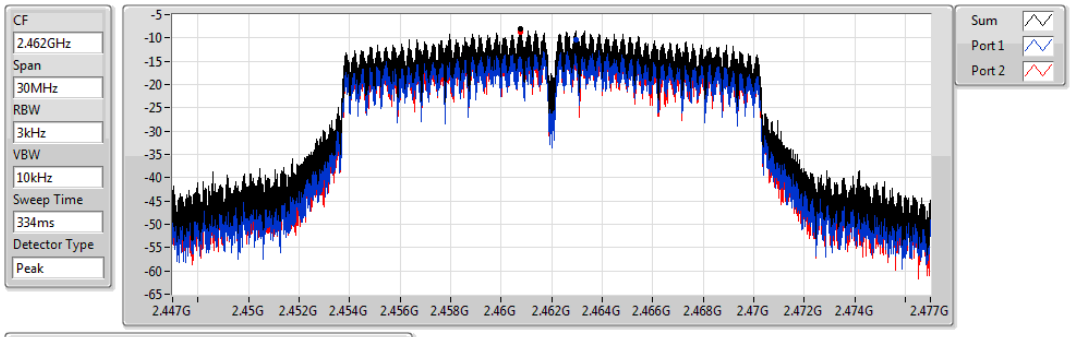
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.13	-2.13	-4.40	-5.12

802.11g_Nss1,(6Mbps)_2TX PSD

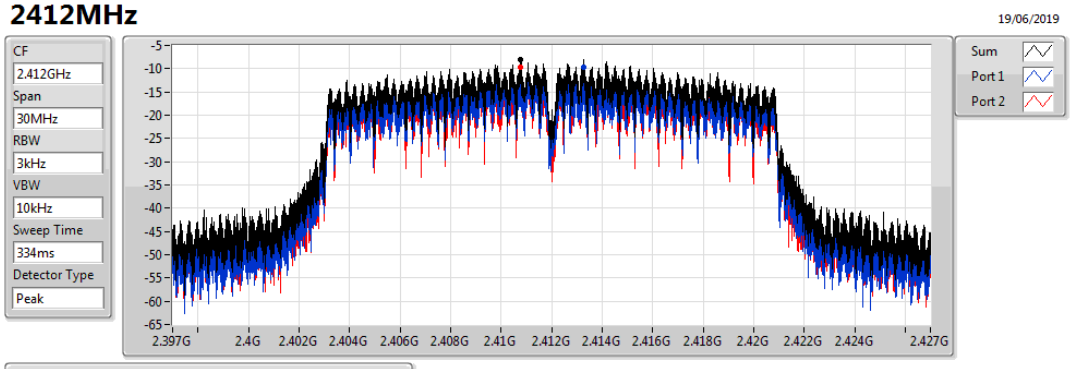
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.01	-8.01	-10.50	-8.71

802.11n HT20_Nss1,(MCS0)_2TX **PSD**

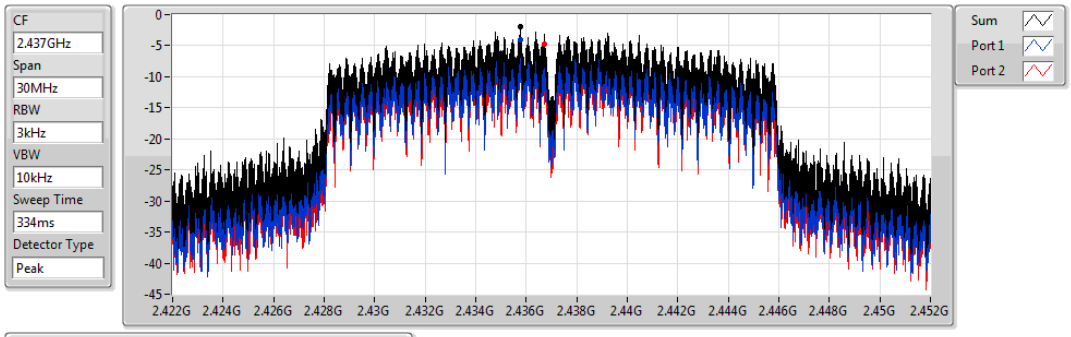
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.98	-7.98	-9.64	-9.75

802.11n HT20_Nss1,(MCS0)_2TX **PSD**

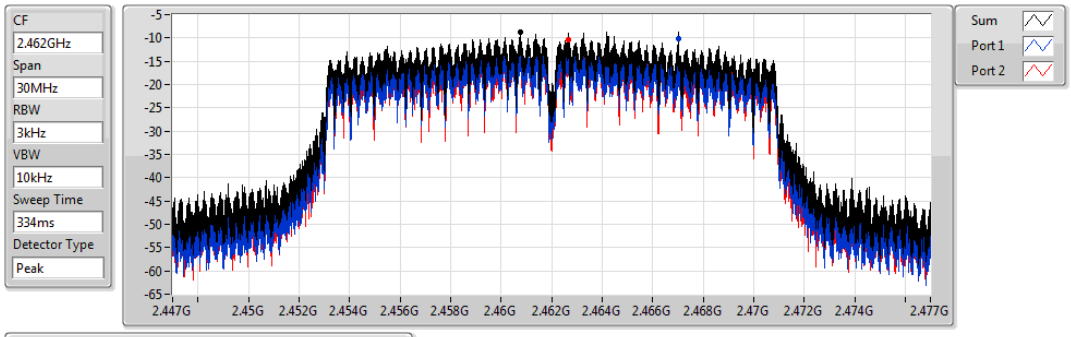
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.91	-1.91	-4.03	-4.83

802.11n HT20_Nss1,(MCS0)_2TX **PSD**

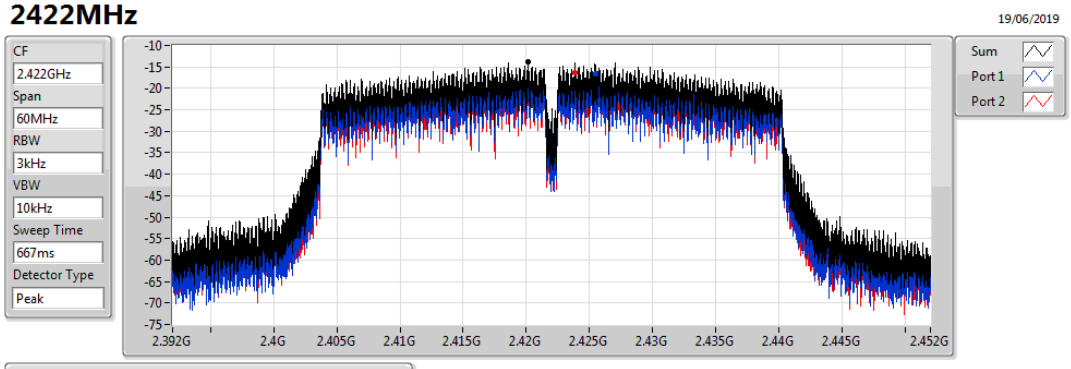
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.72	-8.72	-10.15	-10.40

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

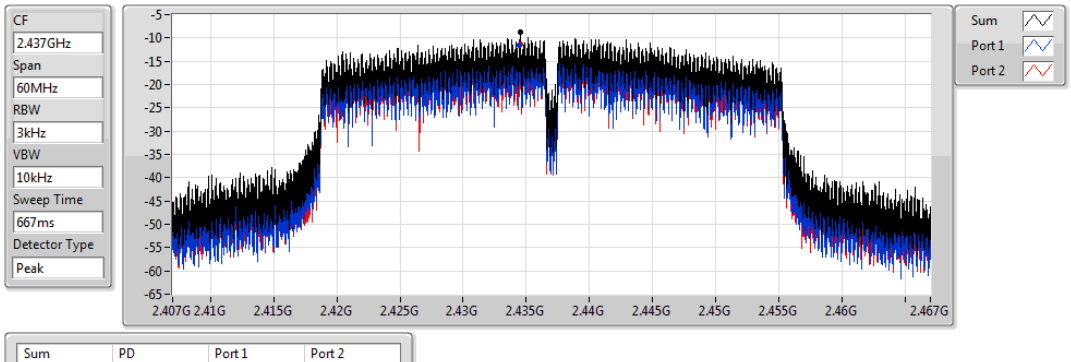
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.76	-13.76	-16.68	-16.24

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

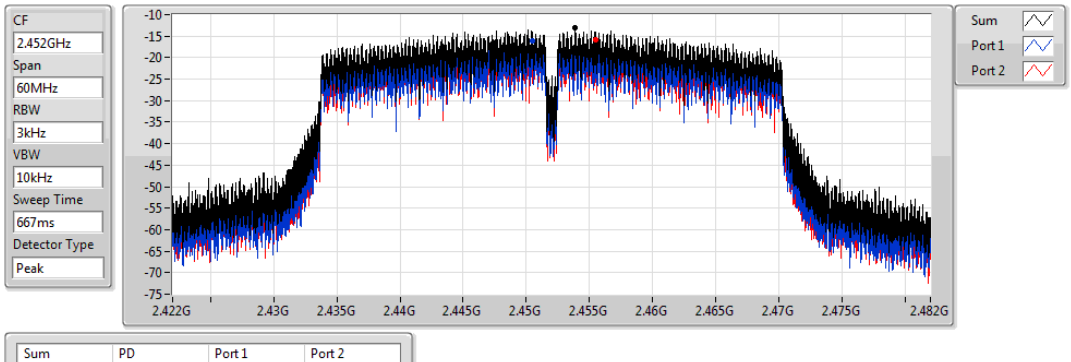
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.67	-8.67	-11.66	-11.31

802.11n HT40_Nss1,(MCS0)_2TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.11	-13.11	-16.17	-15.74

Summary

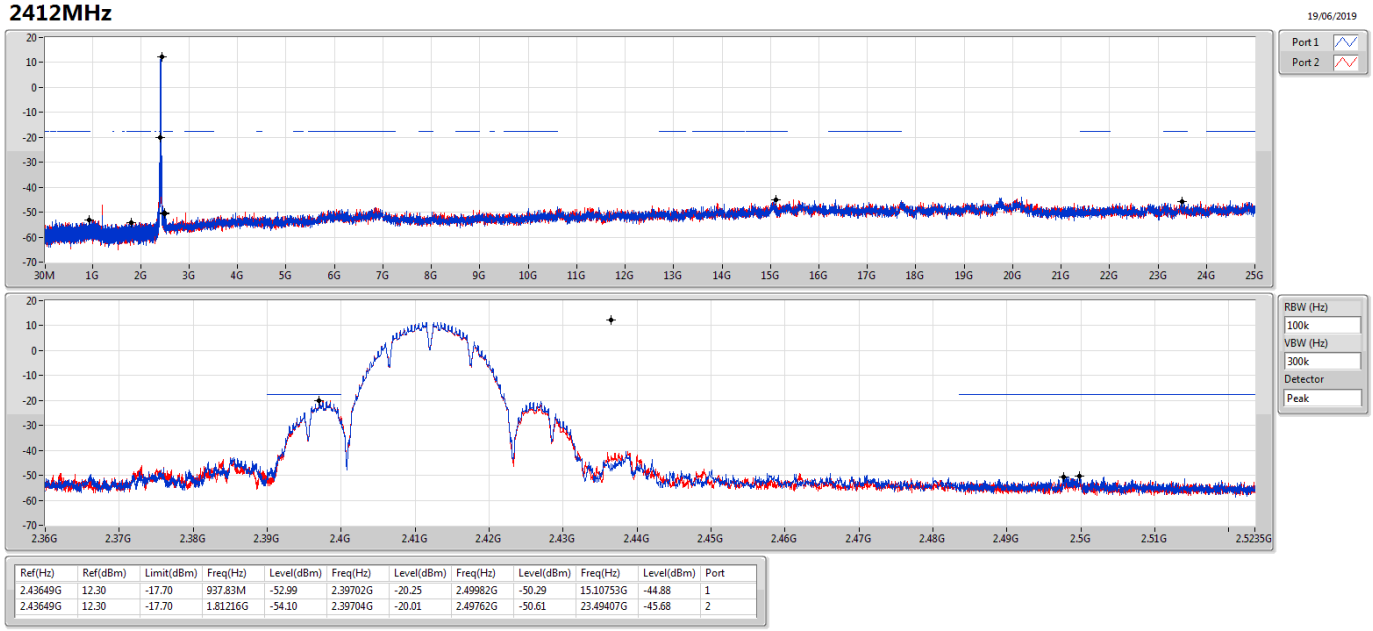
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	12.30	-17.70	1.81216G	-54.10	2.39704G	-20.01	2.49762G	-50.61	23.49407G	-45.68	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	11.84	-18.16	479.98M	-52.33	2.39992G	-20.08	2.49206G	-47.65	24.82862G	-45.02	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43574G	12.04	-17.96	1.93099G	-53.63	2.3995G	-25.23	2.48952G	-49.78	15.05415G	-44.89	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43449G	4.98	-25.02	479.99M	-52.09	2.39452G	-36.15	2.49978G	-50.12	5.78033G	-31.04	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	12.30	-17.70	937.83M	-52.99	2.39702G	-20.25	2.49982G	-50.29	15.10753G	-44.88	1
2412MHz	Pass	2.43649G	12.30	-17.70	1.81216G	-54.10	2.39704G	-20.01	2.49762G	-50.61	23.49407G	-45.68	2
2437MHz	Pass	2.43649G	12.30	-17.70	830.94M	-53.32	2.39106G	-48.56	2.48602G	-47.37	24.48585G	-45.63	1
2437MHz	Pass	2.43649G	12.30	-17.70	1.81769G	-53.80	2.39898G	-44.53	2.48502G	-48.69	16.38307G	-45.66	2
2462MHz	Pass	2.43649G	12.30	-17.70	915.11M	-52.48	2.39998G	-51.18	2.487G	-45.15	15.05415G	-45.03	1
2462MHz	Pass	2.43649G	12.30	-17.70	948.31M	-53.83	2.39104G	-51.31	2.488G	-42.64	15.05696G	-44.77	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	11.84	-18.16	907.83M	-53.66	2.39988G	-20.46	2.49576G	-48.22	14.72543G	-44.99	1
2412MHz	Pass	2.43574G	11.84	-18.16	479.98M	-52.33	2.39992G	-20.08	2.49206G	-47.65	24.82862G	-45.02	2
2437MHz	Pass	2.43574G	11.84	-18.16	891.23M	-53.73	2.39426G	-42.42	2.48826G	-45.16	15.26206G	-44.57	1
2437MHz	Pass	2.43574G	11.84	-18.16	479.98M	-52.36	2.3998G	-45.08	2.48388G	-46.22	24.93538G	-44.49	2
2462MHz	Pass	2.43574G	11.84	-18.16	479.98M	-52.90	2.39828G	-47.79	2.48386G	-43.22	15.22272G	-45.60	1
2462MHz	Pass	2.43574G	11.84	-18.16	812.01M	-53.66	2.39198G	-48.96	2.4839G	-41.49	15.04291G	-44.84	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.04	-17.96	804.43M	-52.71	2.3999G	-28.10	2.50076G	-48.37	15.26768G	-44.93	1
2412MHz	Pass	2.43574G	12.04	-17.96	1.93099G	-53.63	2.3995G	-25.23	2.48952G	-49.78	15.05415G	-44.89	2
2437MHz	Pass	2.43574G	12.04	-17.96	2.05768G	-54.02	2.39948G	-40.53	2.4858G	-43.79	24.91571G	-44.92	1
2437MHz	Pass	2.43574G	12.04	-17.96	834.72M	-53.06	2.39954G	-41.91	2.4861G	-43.83	24.80614G	-45.05	2
2462MHz	Pass	2.43574G	12.04	-17.96	479.98M	-52.67	2.39572G	-49.09	2.48354G	-44.00	24.53642G	-45.71	1
2462MHz	Pass	2.43574G	12.04	-17.96	1.77313G	-53.44	2.39996G	-50.09	2.48352G	-43.65	13.99494G	-44.09	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	4.98	-25.02	2.0203G	-53.28	2.39828G	-37.12	2.49754G	-49.30	23.39859G	-45.33	1
2422MHz	Pass	2.43449G	4.98	-25.02	479.99M	-52.09	2.39452G	-36.15	2.49978G	-50.12	5.78033G	-31.04	2
2437MHz	Pass	2.43449G	4.98	-25.02	1.91896G	-53.09	2.39956G	-33.88	2.48946G	-44.85	24.77844G	-45.06	1
2437MHz	Pass	2.43449G	4.98	-25.02	479.99M	-52.27	2.39956G	-32.53	2.48358G	-45.74	24.85136G	-44.40	2
2452MHz	Pass	2.43449G	4.98	-25.02	953.44M	-53.14	2.39016G	-50.26	2.48446G	-38.87	17.69692G	-45.51	1
2452MHz	Pass	2.43449G	4.98	-25.02	479.99M	-51.35	2.392G	-48.49	2.4845G	-40.33	16.9481G	-45.73	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

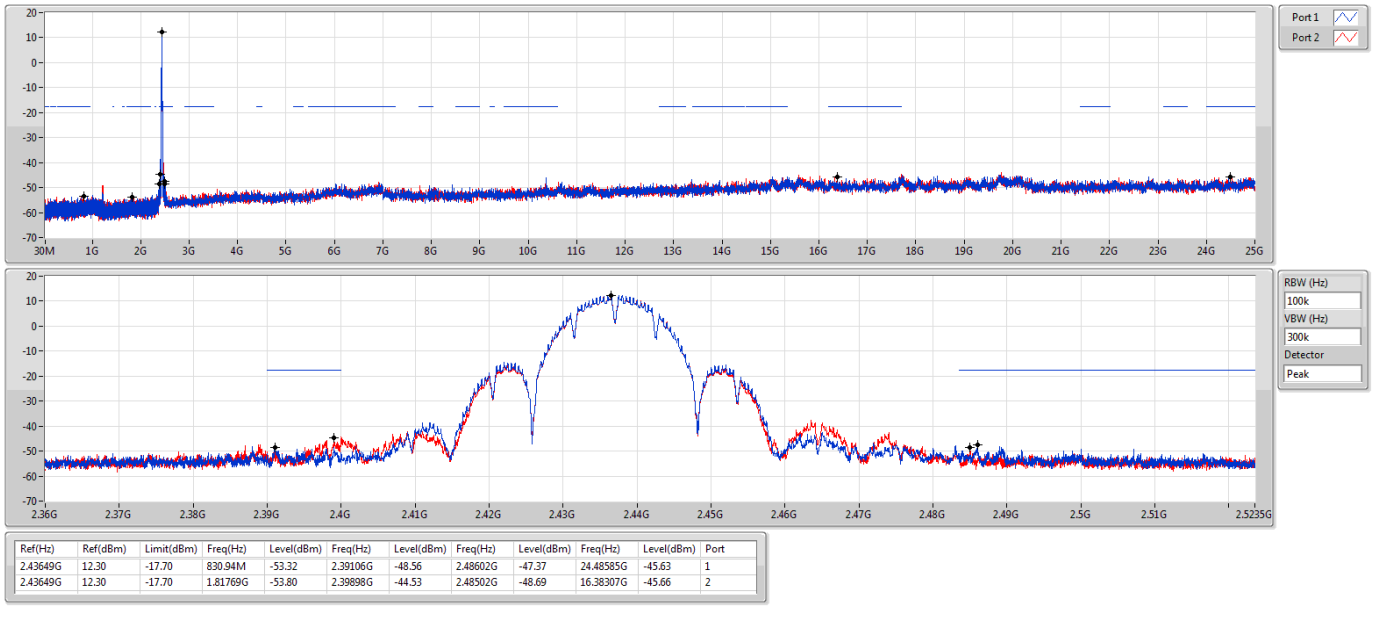
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	12.30	-17.70	937.83M	-52.99	2.39702G	-20.25	2.49982G	-50.29	15.10753G	-44.88	1
2.43649G	12.30	-17.70	1.81216G	-54.10	2.39704G	-20.01	2.49762G	-50.61	23.49407G	-45.68	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

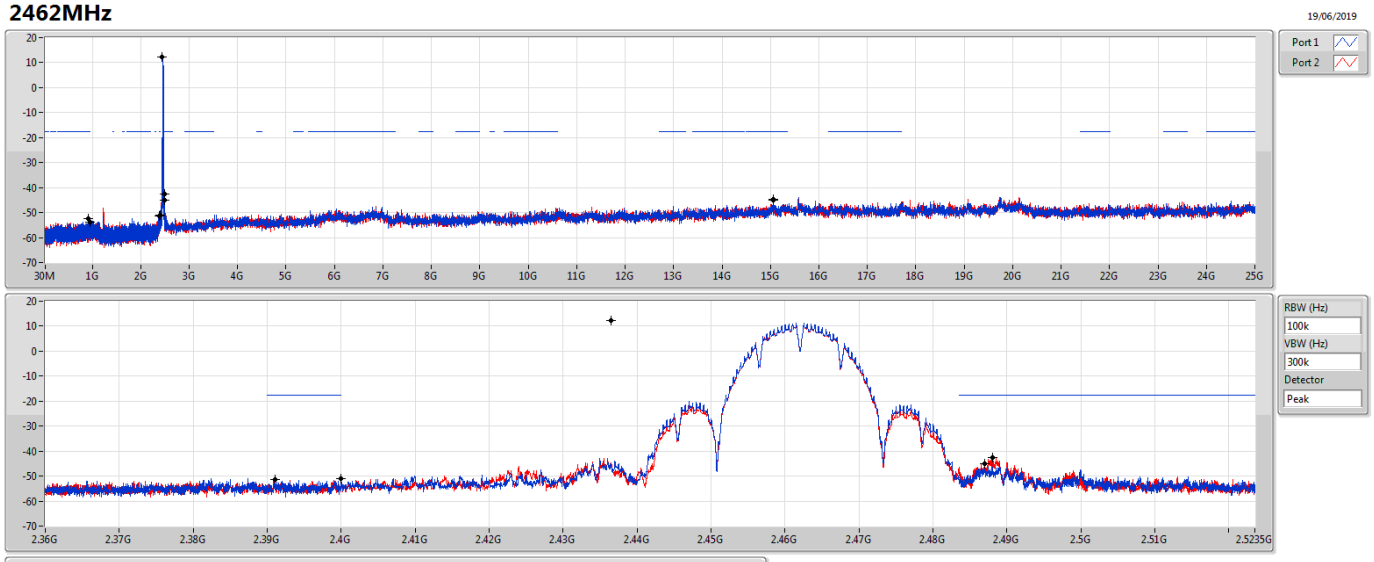
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	12.30	-17.70	830.94M	-53.32	2.39106G	-48.56	2.48602G	-47.37	24.48585G	-45.63	1
2.43649G	12.30	-17.70	1.81769G	-53.80	2.39898G	-44.53	2.48502G	-48.69	16.38307G	-45.66	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

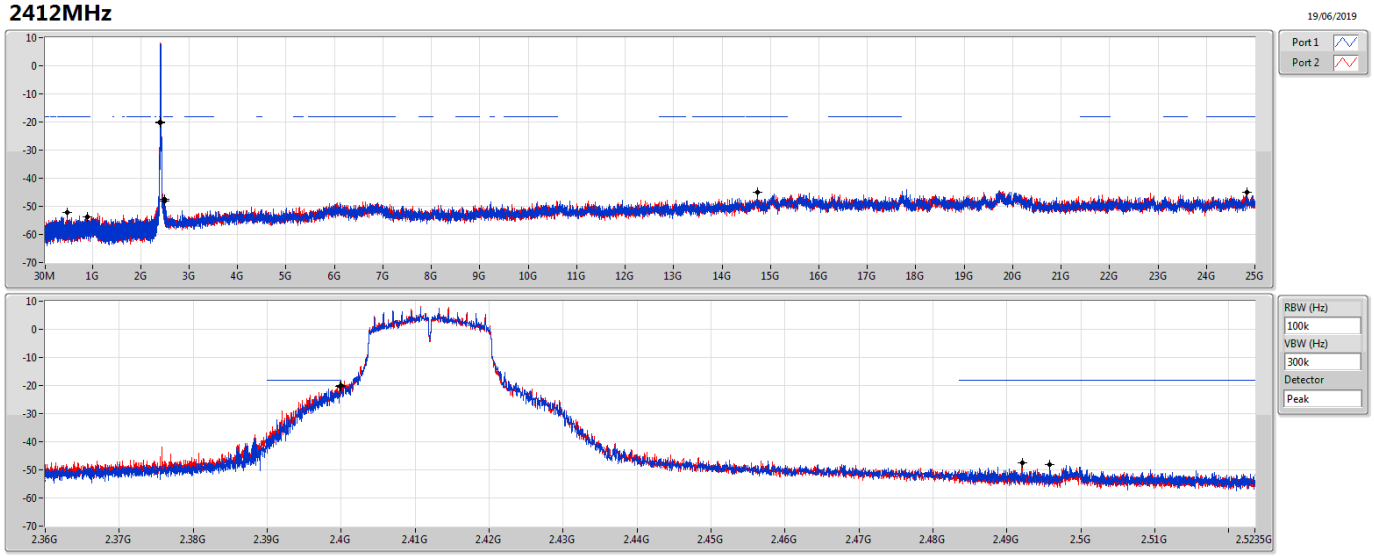
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	12.30	-17.70	915.11M	-52.48	2.39998G	-51.18	2.487G	-45.15	15.05415G	-45.03	1
2.43649G	12.30	-17.70	948.31M	-53.83	2.39104G	-51.31	2.488G	-42.64	15.05696G	-44.77	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

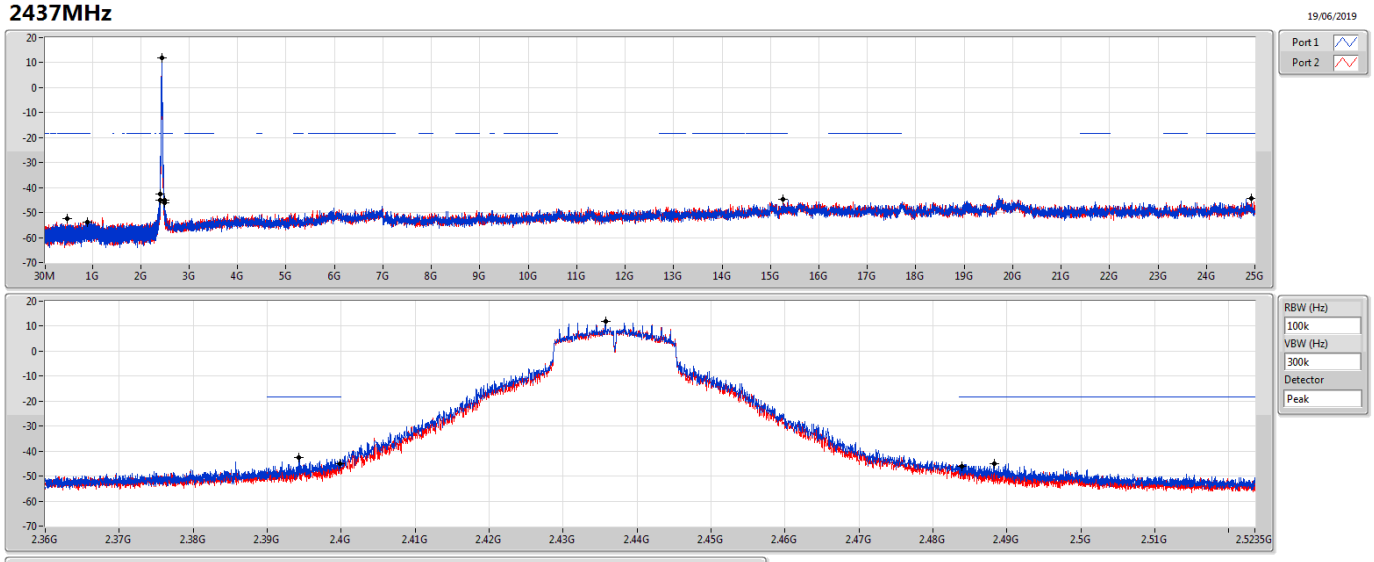
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.84	-18.16	907.83M	-53.66	2.39988G	-20.46	2.49576G	-48.22	14.72543G	-44.99	1
2.43574G	11.84	-18.16	479.98M	-52.33	2.39992G	-20.08	2.49206G	-47.65	24.82862G	-45.02	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

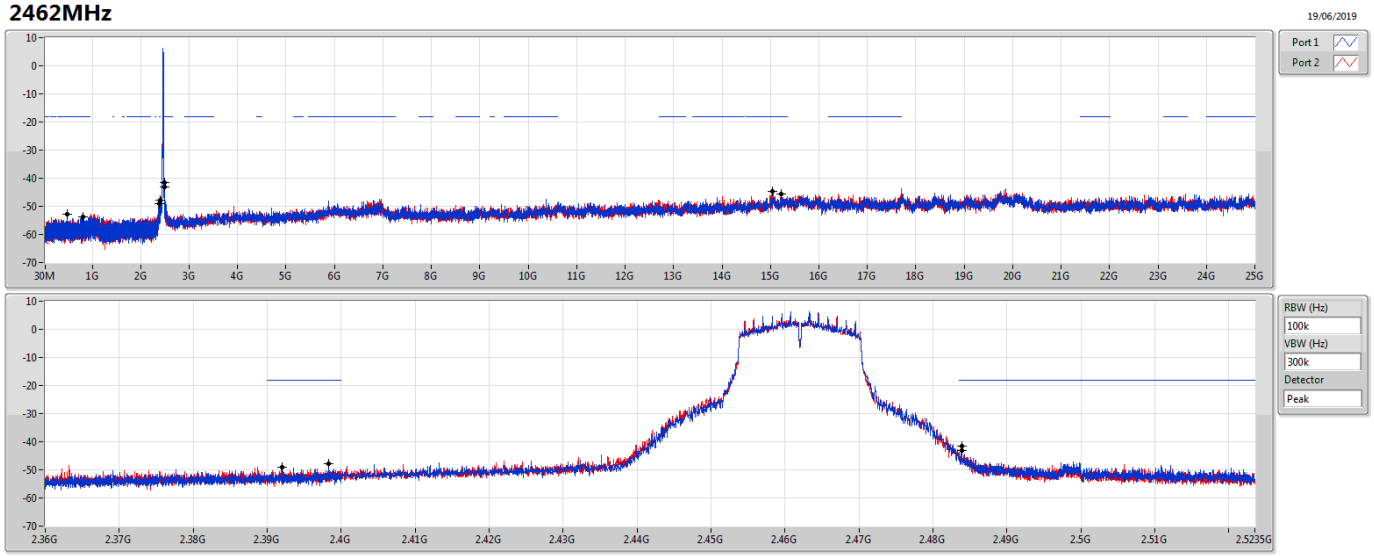
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.84	-18.16	891.23M	-53.73	2.39426G	-42.42	2.48826G	-45.16	15.26206G	-44.57	1
2.43574G	11.84	-18.16	479.98M	-52.36	2.3998G	-45.08	2.48388G	-46.22	24.93538G	-44.49	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

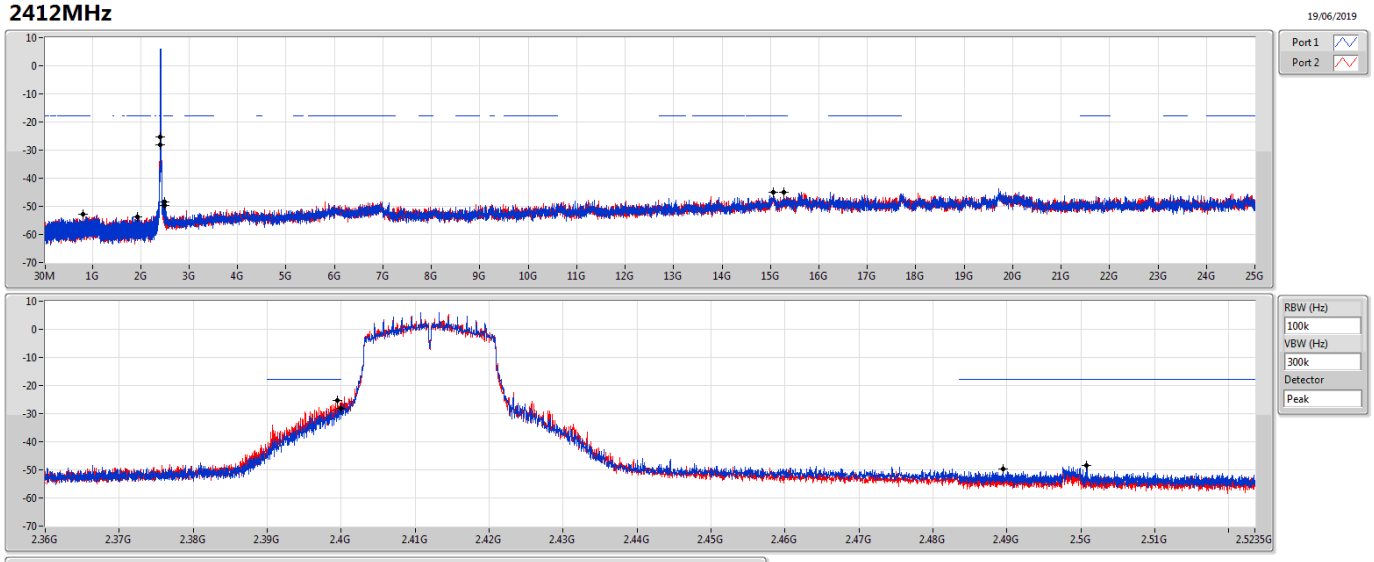
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	11.84	-18.16	479.98M	-52.90	2.39828G	-47.79	2.48386G	-43.22	15.22272G	-45.60	1
2.43574G	11.84	-18.16	812.01M	-53.66	2.39198G	-48.96	2.4839G	-41.49	15.04291G	-44.84	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

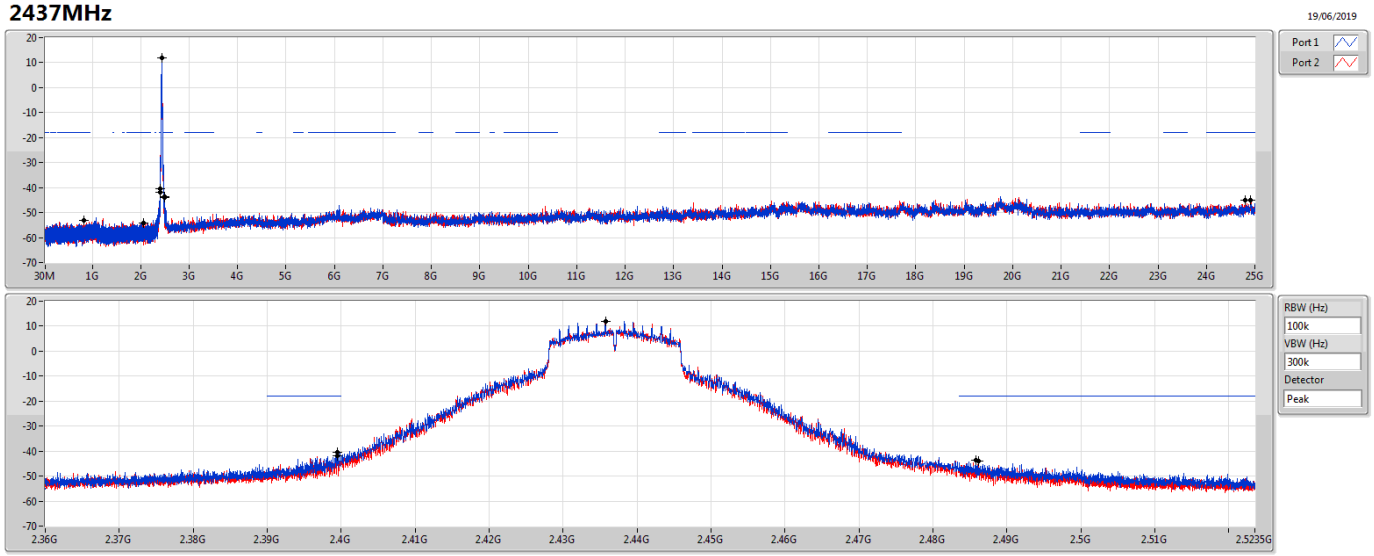
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	12.04	-17.96	804.43M	-52.71	2.3999G	-28.10	2.50076G	-48.37	15.26768G	-44.93	1
2.43574G	12.04	-17.96	1.93099G	-53.63	2.3995G	-25.23	2.48952G	-49.78	15.05415G	-44.89	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

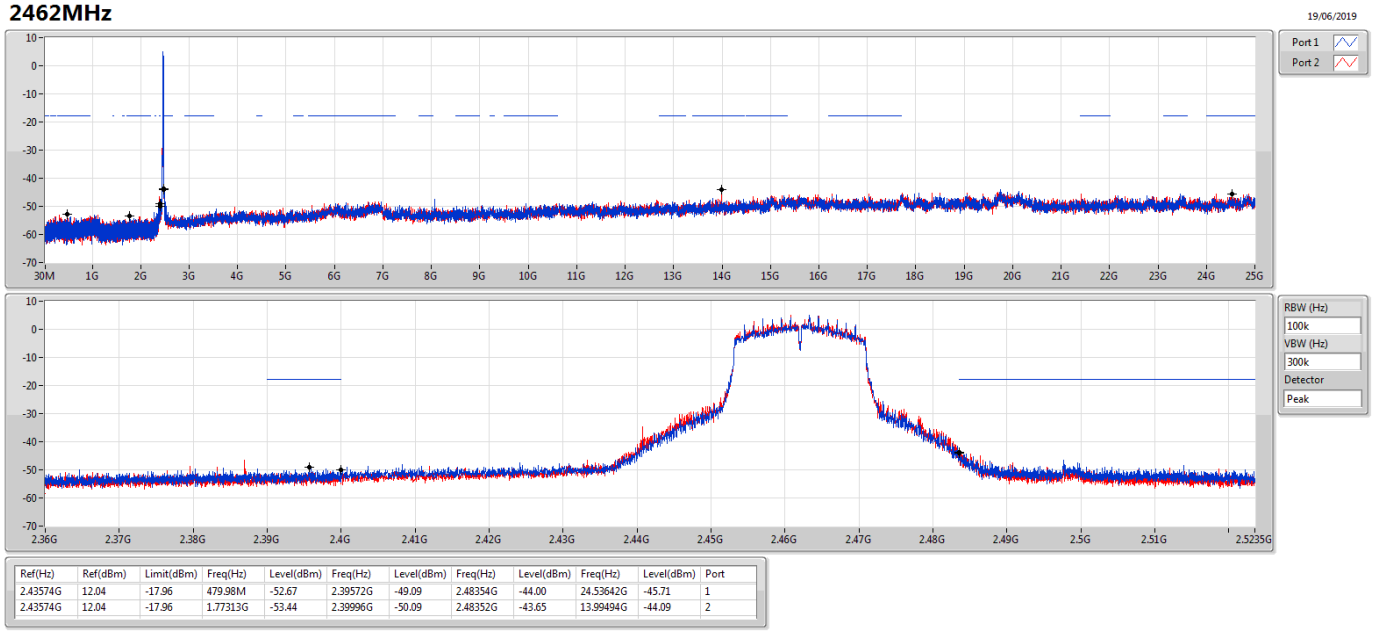
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	12.04	-17.96	2.05768G	-54.02	2.39948G	-40.53	2.4858G	-43.79	24.91571G	-44.92	1
2.43574G	12.04	-17.96	834.72M	-53.06	2.39954G	-41.91	2.4861G	-43.83	24.80614G	-45.05	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

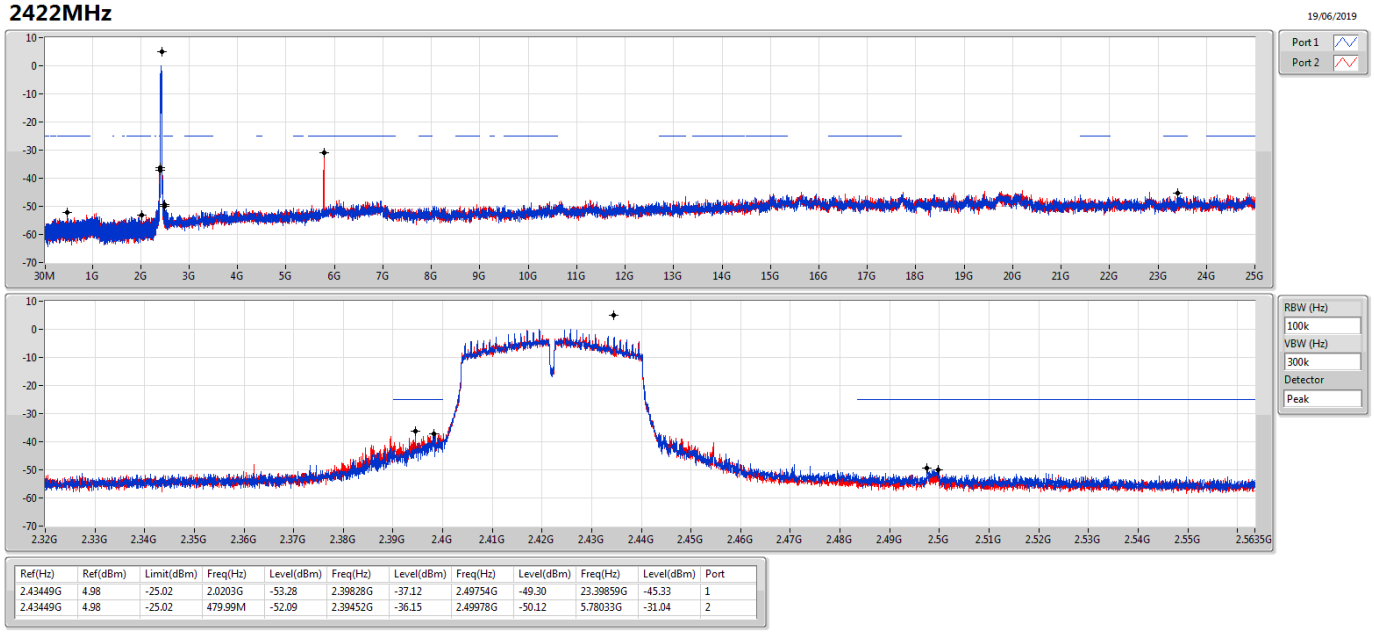
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	12.04	-17.96	479.98M	-52.67	2.39572G	-49.09	2.48354G	-44.00	24.53642G	-45.71	1
2.43574G	12.04	-17.96	1.77313G	-53.44	2.39996G	-50.09	2.48352G	-43.65	13.99494G	-44.09	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

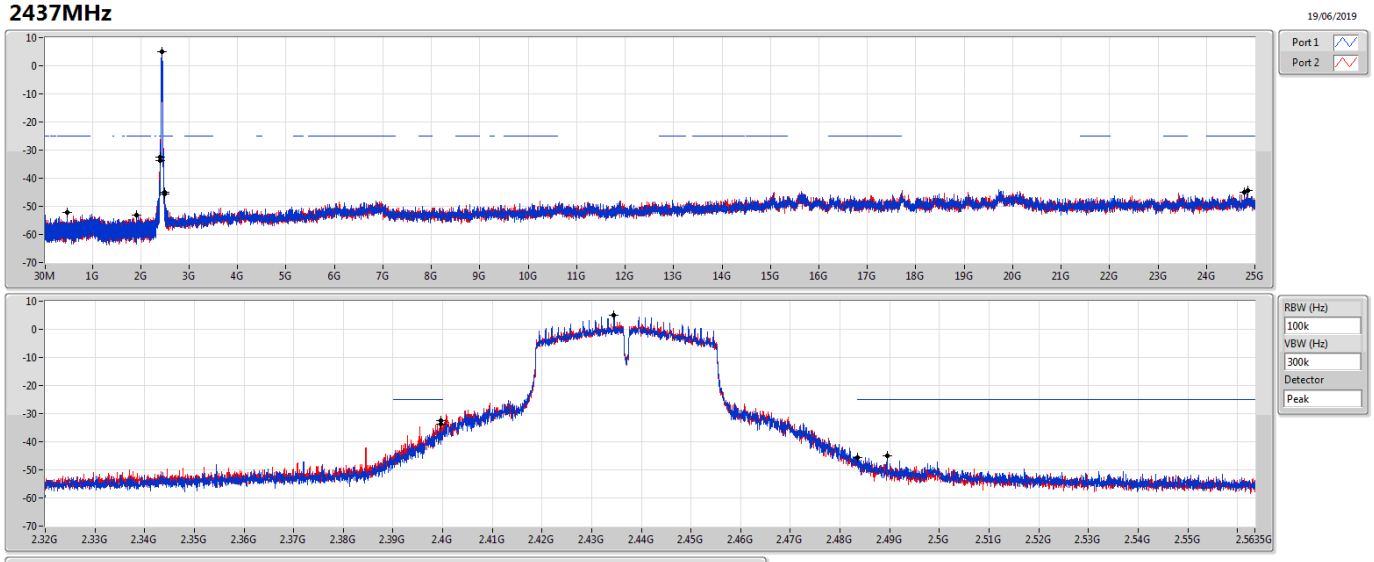
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	4.98	-25.02	2.0203G	-53.28	2.39828G	-37.12	2.49754G	-49.30	23.39859G	-45.33	1
2.43449G	4.98	-25.02	479.99M	-52.09	2.39452G	-36.15	2.49978G	-50.12	5.78033G	-31.04	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

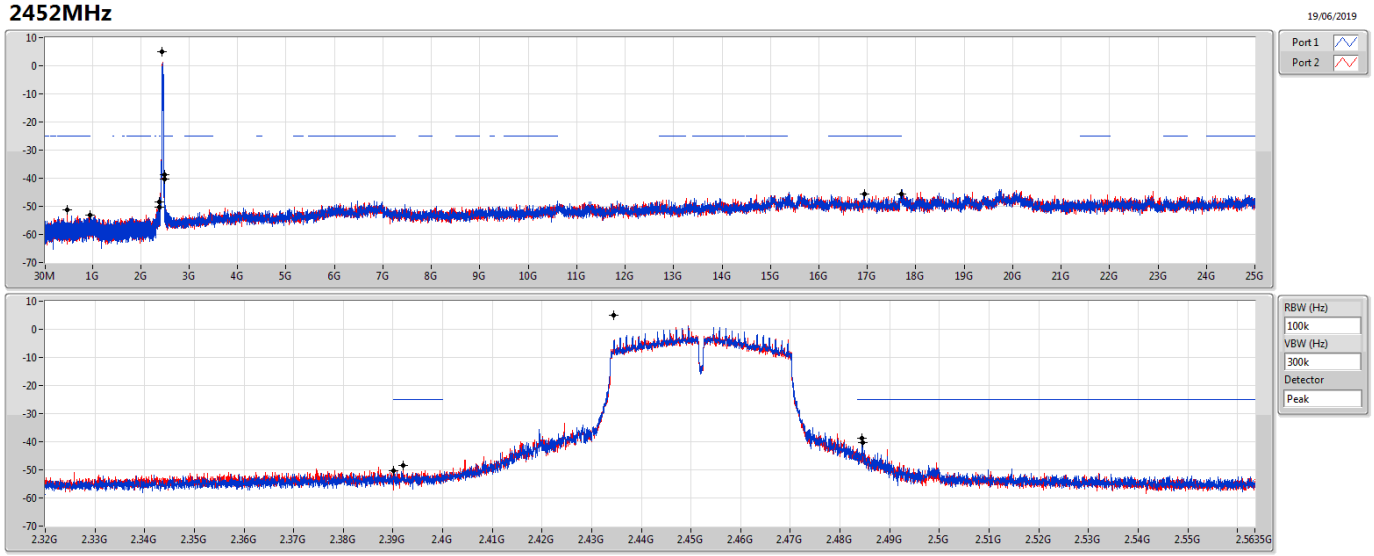
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	4.98	-25.02	1.91896G	-53.09	2.39956G	-33.88	2.48946G	-44.85	24.77844G	-45.06	1
2.43449G	4.98	-25.02	479.99M	-52.27	2.39956G	-32.53	2.48358G	-45.74	24.85136G	-44.40	2

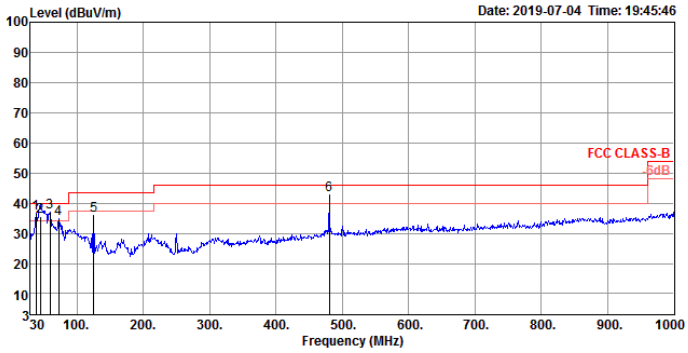
802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	4.98	-25.02	953.44M	-53.14	2.39016G	-50.26	2.48446G	-38.87	17.69692G	-45.51	1
2.43449G	4.98	-25.02	479.99M	-51.35	2.392G	-48.49	2.4845G	-40.33	16.9481G	-45.73	2

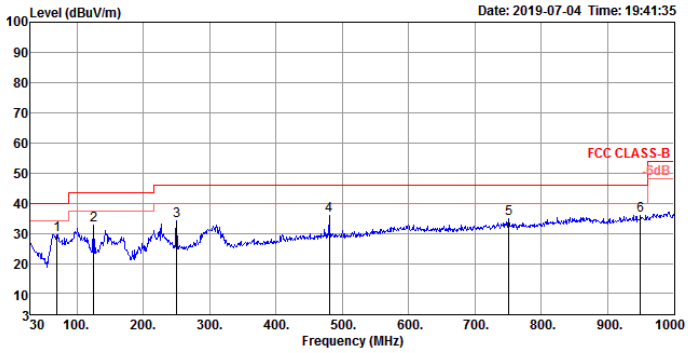
RSE below 1GHz Result			
Operating Mode	2	**Polarization**	Vertical
Operating Function	CTX		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	38.73	36.82	40.00	-3.18	49.03	1.21	19.15	32.57	100	237	Peak	VERTICAL
2	44.55	35.71	40.00	-4.29	50.90	1.30	16.19	32.68	100	277	QP	VERTICAL
3	59.10	36.98	40.00	-3.02	55.78	1.52	12.22	32.54	200	252	Peak	VERTICAL
4	72.68	34.75	40.00	-5.25	53.46	1.71	12.04	32.46	125	60	Peak	VERTICAL
5	125.06	35.78	43.50	-7.72	48.21	2.25	17.85	32.53	100	253	Peak	VERTICAL
6	480.08	42.76	46.00	-3.24	47.65	4.19	23.08	32.16	125	63	Peak	VERTICAL

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

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	69.77	29.61	40.00	-10.39	48.31	1.67	12.06	32.43	300	297	Peak	HORIZONTAL
2	125.06	32.66	43.50	-10.84	45.09	2.25	17.85	32.53	300	297	Peak	HORIZONTAL
3	250.19	34.28	46.00	-11.72	45.40	2.95	18.30	32.37	100	273	Peak	HORIZONTAL
4	480.08	36.11	46.00	-9.89	41.00	4.19	23.08	32.16	200	225	Peak	HORIZONTAL
5	750.71	35.00	46.00	-11.00	36.49	5.20	25.37	32.06	100	236	Peak	HORIZONTAL
6	949.56	35.91	46.00	-10.09	35.04	5.82	26.46	31.41	150	98	Peak	HORIZONTAL

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

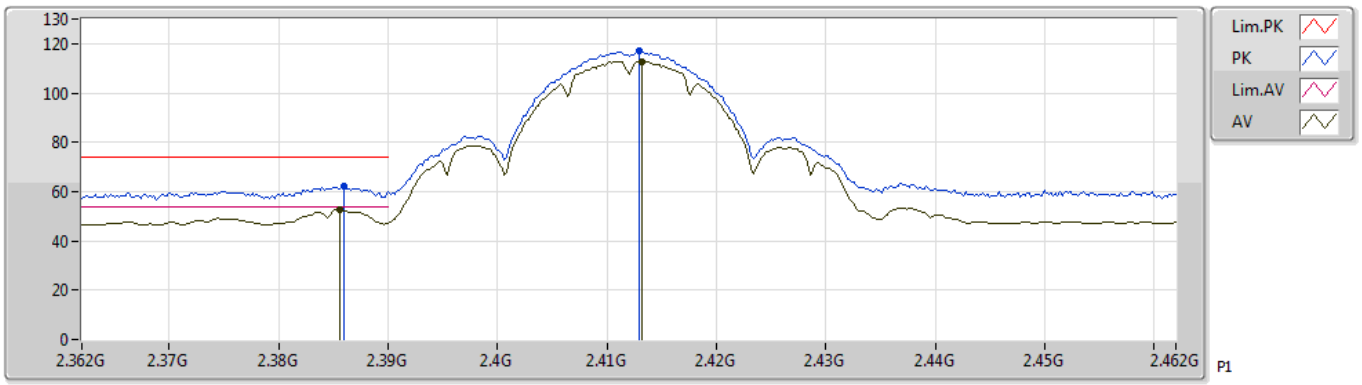
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4836G	52.94	54.00	-1.06	32.25	3	Vertical	342	1.32	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

19/06/2019



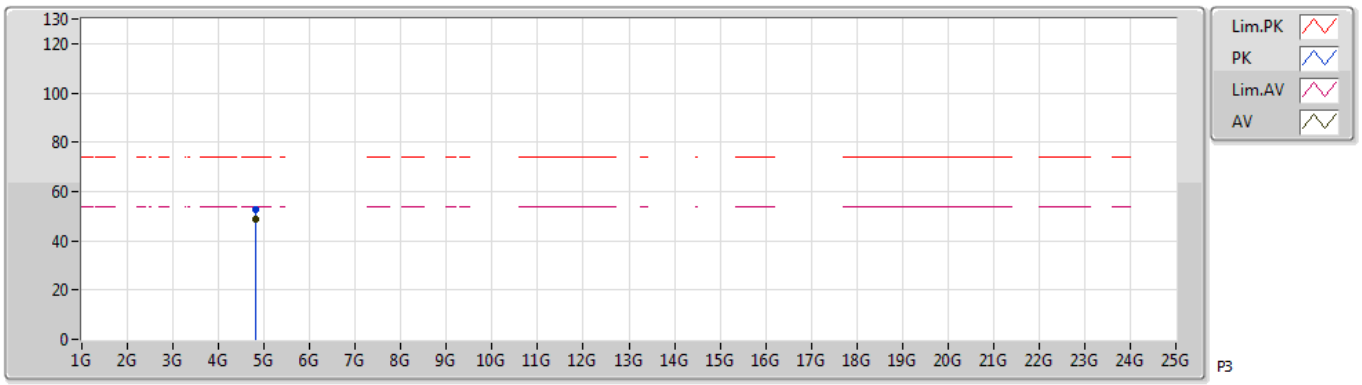
EUT Y_2TX
Setting 27
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.386G	61.94	74.00	-12.06	31.19	3	Vertical	22	1.50	-
AV	2.3856G	52.51	54.00	-1.49	31.19	3	Vertical	22	1.50	-
PK	2.413G	116.87	Inf	-Inf	31.26	3	Vertical	22	1.50	-
AV	2.4132G	112.73	Inf	-Inf	31.26	3	Vertical	22	1.50	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

19/06/2019



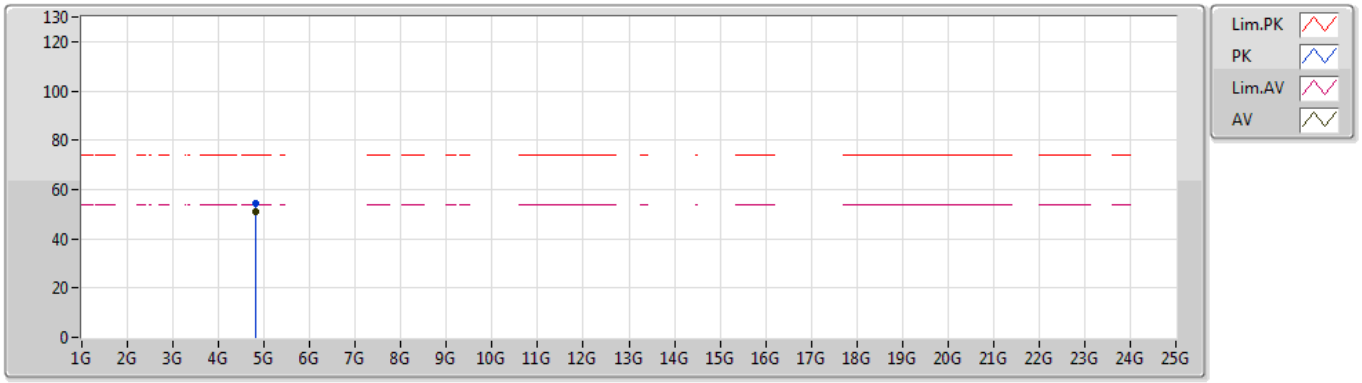
EUT Y_2TX
Setting 27
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82399G	52.44	74.00	-21.56	7.17	3	Vertical	119	1.36	-
AV	4.824G	49.03	54.00	-4.97	7.17	3	Vertical	119	1.36	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

03/07/2019



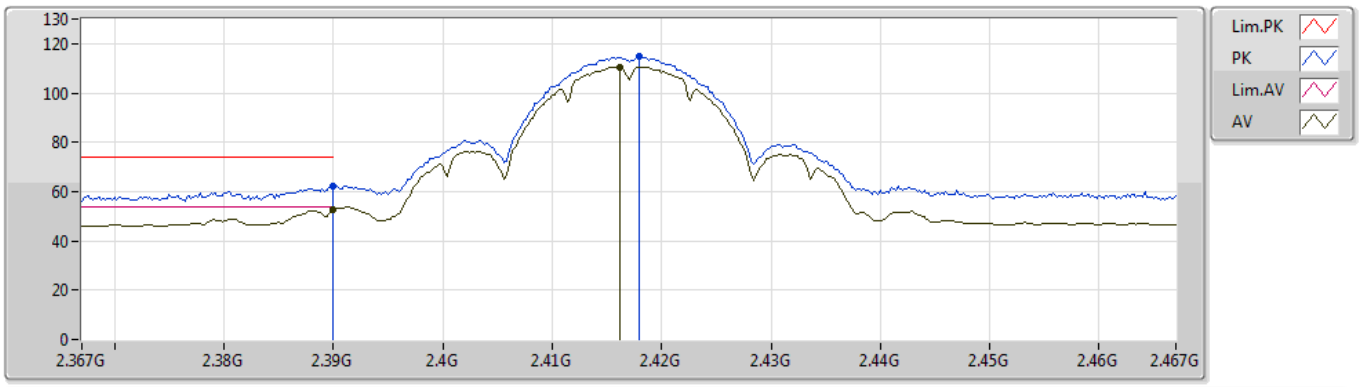
EUT Y_2TX
Setting 27
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82404G	54.55	74.00	-19.45	4.71	3	Horizontal	226	2.07	-
AV	4.82401G	50.93	54.00	-3.07	4.71	3	Horizontal	226	2.07	-

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

02/07/2019



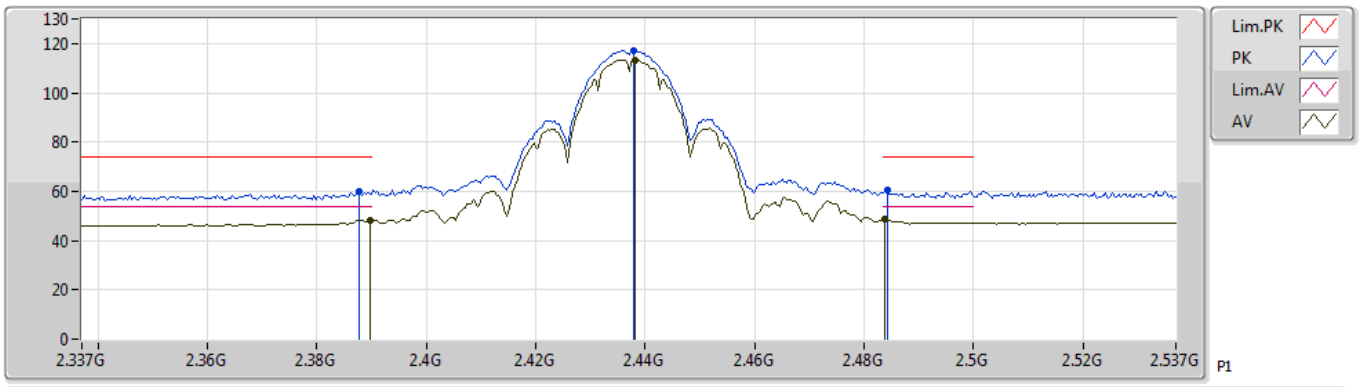
EUT Y_2TX
Setting 28
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.39G	61.96	74.00	-12.04	31.93	3	Vertical	43	1.10	-
AV	2.39G	52.88	54.00	-1.12	31.93	3	Vertical	43	1.10	-
PK	2.418G	114.67	Inf	-Inf	32.02	3	Vertical	43	1.10	-
AV	2.4162G	110.44	Inf	-Inf	32.02	3	Vertical	43	1.10	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

19/06/2019



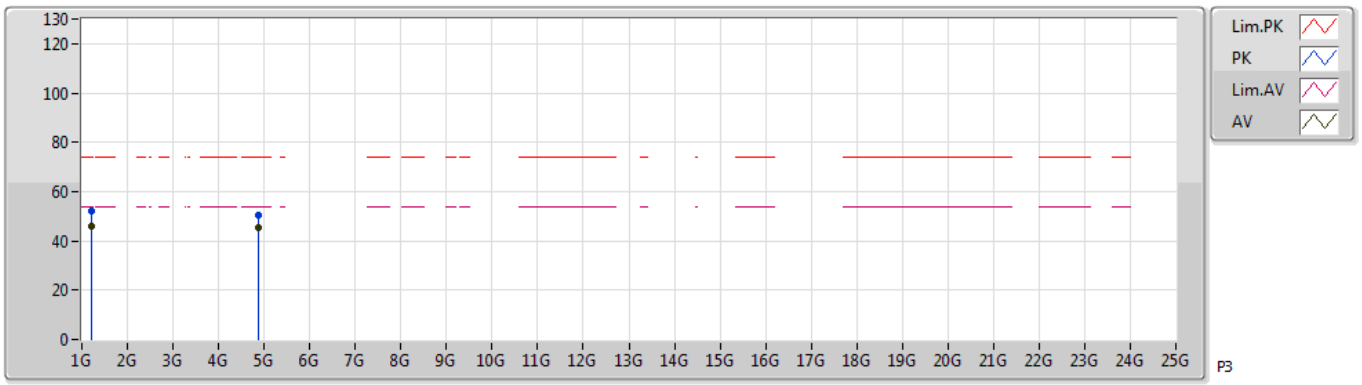
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3878G	59.70	74.00	-14.30	31.20	3	Vertical	268	1.80	-
AV	2.3898G	48.29	54.00	-5.71	31.20	3	Vertical	268	1.80	-
PK	2.4378G	117.29	Inf	-Inf	31.31	3	Vertical	268	1.80	-
AV	2.4382G	113.24	Inf	-Inf	31.31	3	Vertical	268	1.80	-
PK	2.4842G	60.25	74.00	-13.75	31.39	3	Vertical	268	1.80	-
AV	2.4838G	48.81	54.00	-5.19	31.39	3	Vertical	268	1.80	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

19/06/2019



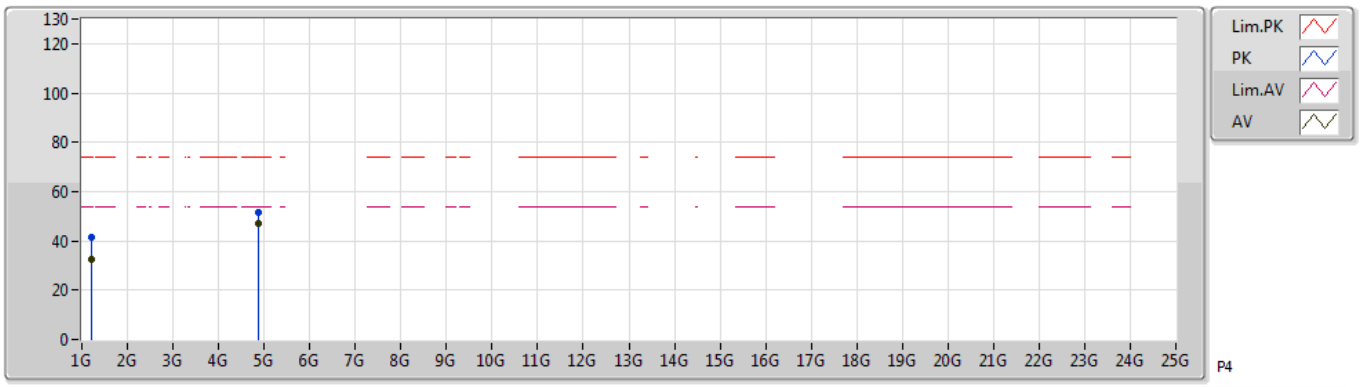
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	1.21842G	51.91	74.00	-22.09	-6.49	3	Vertical	344	2.94	-
AV	1.21728G	46.22	54.00	-7.78	-6.50	3	Vertical	344	2.94	-
PK	4.87394G	50.46	74.00	-23.54	7.28	3	Vertical	136	1.01	-
AV	4.87401G	45.58	54.00	-8.42	7.28	3	Vertical	136	1.01	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

19/06/2019



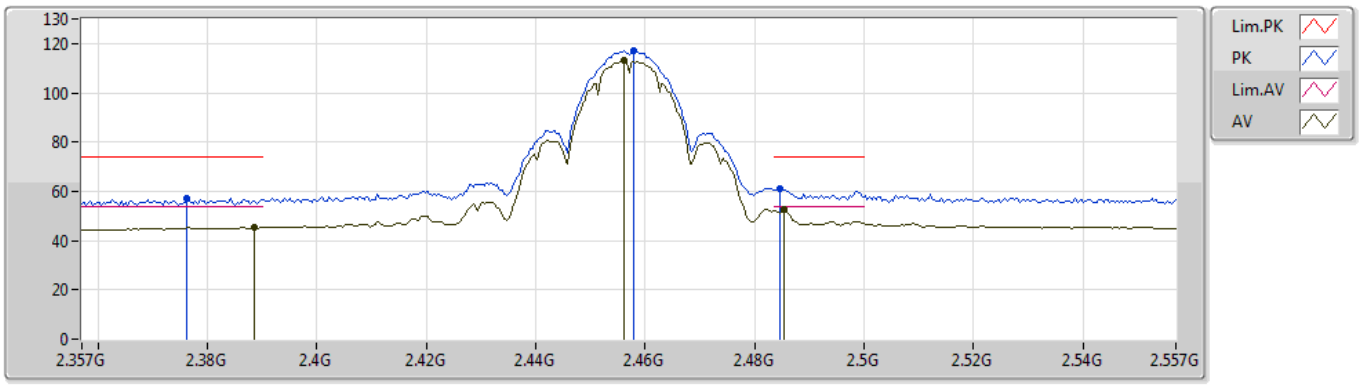
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	1.21878G	41.44	74.00	-32.56	-6.49	3	Horizontal	136	1.50	-
AV	1.21776G	32.43	54.00	-21.57	-6.50	3	Horizontal	136	1.50	-
PK	4.87406G	51.57	74.00	-22.43	7.28	3	Horizontal	182	1.03	-
AV	4.87401G	47.30	54.00	-6.70	7.28	3	Horizontal	182	1.03	-

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

02/07/2019



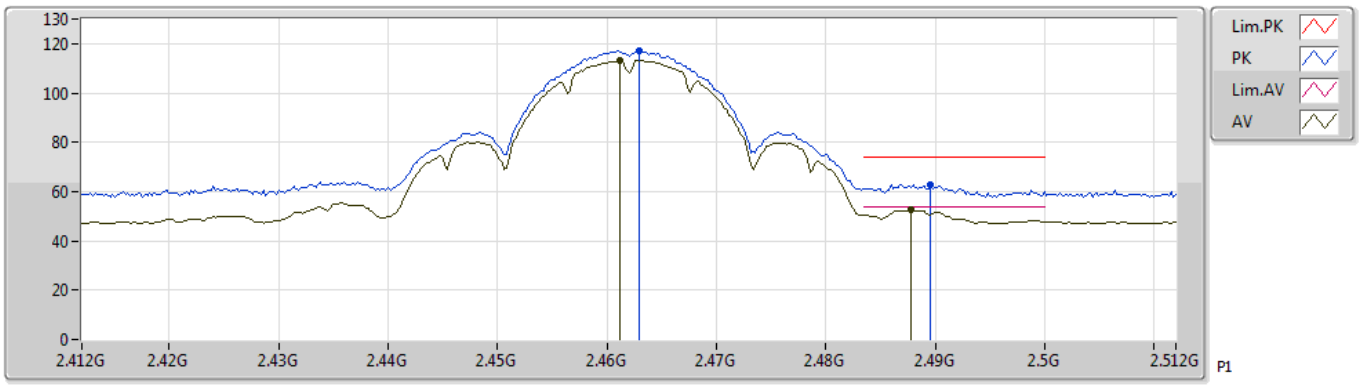
EUT Y_2TX
Setting 27
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3762G	57.07	74.00	-16.93	31.89	3	Vertical	43	1.39	-
AV	2.3886G	45.36	54.00	-8.64	31.93	3	Vertical	43	1.39	-
PK	2.4578G	117.05	Inf	-Inf	32.16	3	Vertical	43	1.39	-
AV	2.4562G	113.00	Inf	-Inf	32.16	3	Vertical	43	1.39	-
PK	2.4846G	61.11	74.00	-12.89	32.25	3	Vertical	43	1.39	-
AV	2.4854G	52.76	54.00	-1.24	32.26	3	Vertical	43	1.39	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

19/06/2019



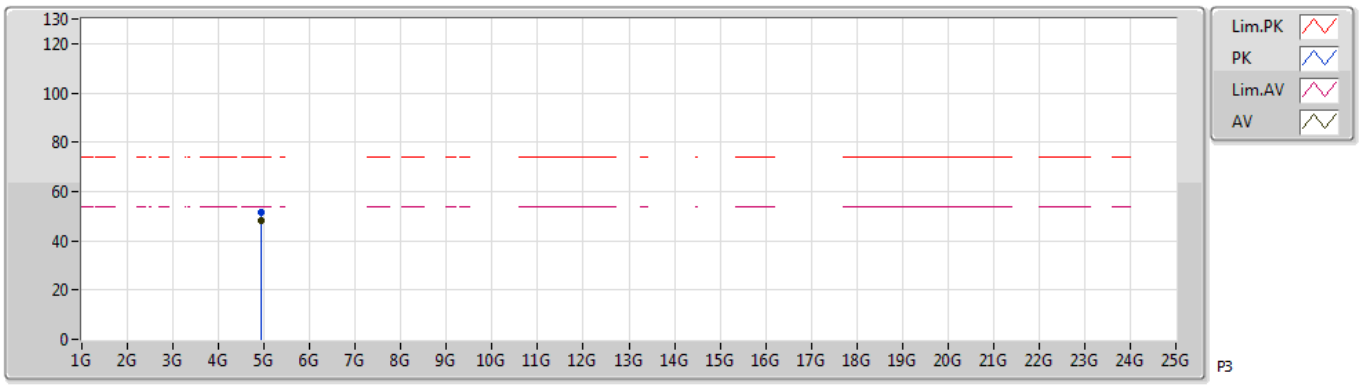
EUT Y_2TX
Setting 27
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.463G	116.99	Inf	-Inf	31.36	3	Vertical	28	1.29	-
AV	2.4612G	113.14	Inf	-Inf	31.35	3	Vertical	28	1.29	-
PK	2.4896G	62.98	74.00	-11.02	31.41	3	Vertical	28	1.29	-
AV	2.4878G	52.57	54.00	-1.43	31.41	3	Vertical	28	1.29	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

19/06/2019



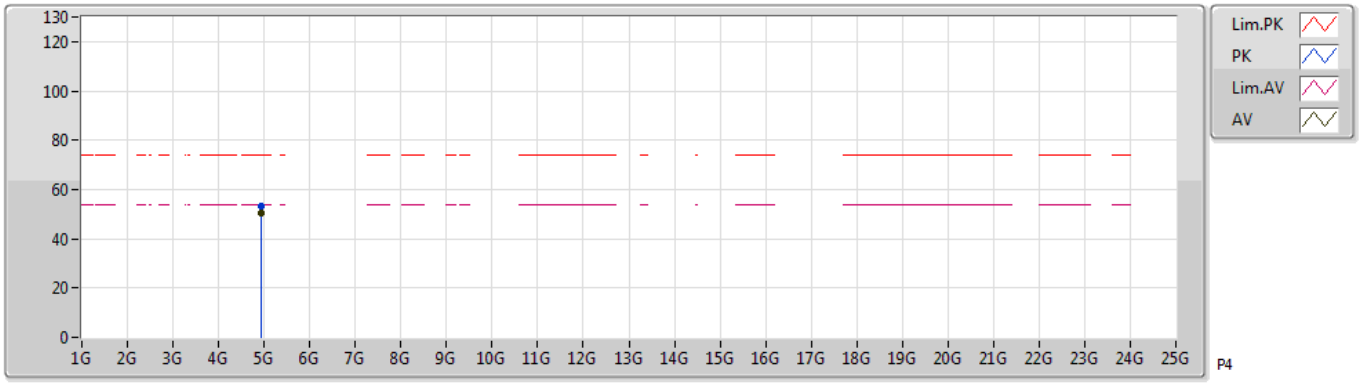
EUT Y_2TX
Setting 27
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92398G	51.75	74.00	-22.25	7.40	3	Vertical	131	1.03	-
AV	4.924G	48.06	54.00	-5.94	7.40	3	Vertical	131	1.03	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

19/06/2019



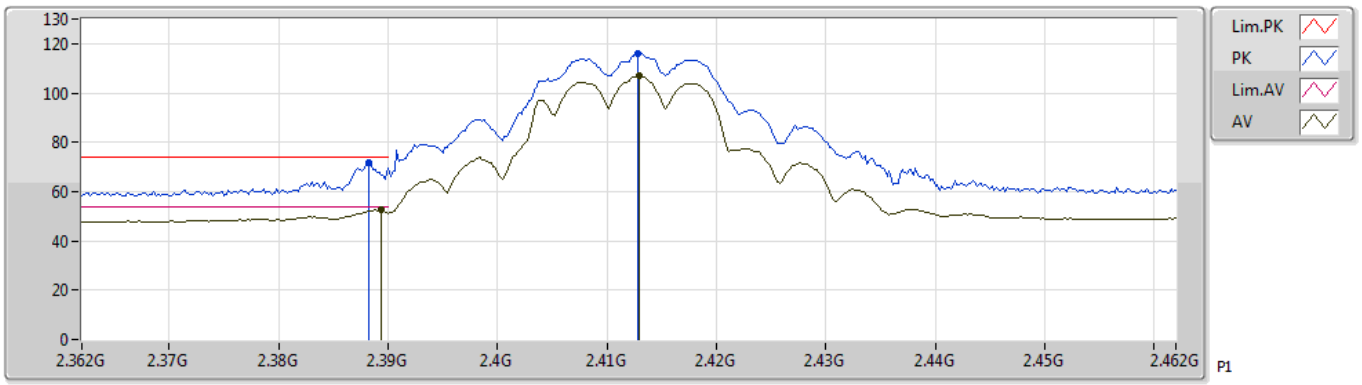
EUT Y_2TX
Setting 27
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92394G	53.43	74.00	-20.57	7.40	3	Horizontal	182	2.52	-
AV	4.92399G	50.45	54.00	-3.55	7.40	3	Horizontal	182	2.52	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

19/06/2019



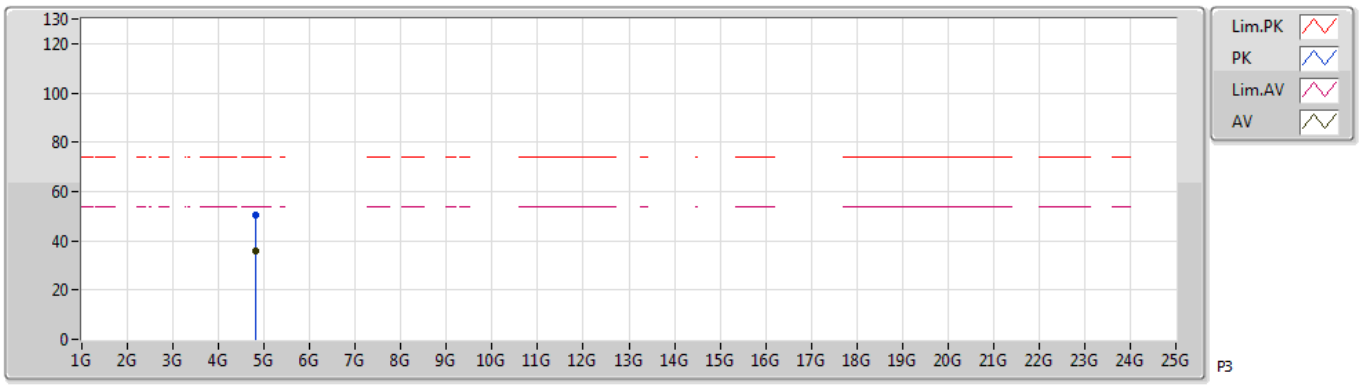
EUT Y_2TX
Setting 21
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3882G	71.94	74.00	-2.06	31.20	3	Vertical	24	1.82	-
AV	2.3894G	52.46	54.00	-1.54	31.20	3	Vertical	24	1.82	-
PK	2.4128G	116.25	Inf	-Inf	31.26	3	Vertical	24	1.82	-
AV	2.413G	106.88	Inf	-Inf	31.26	3	Vertical	24	1.82	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

19/06/2019



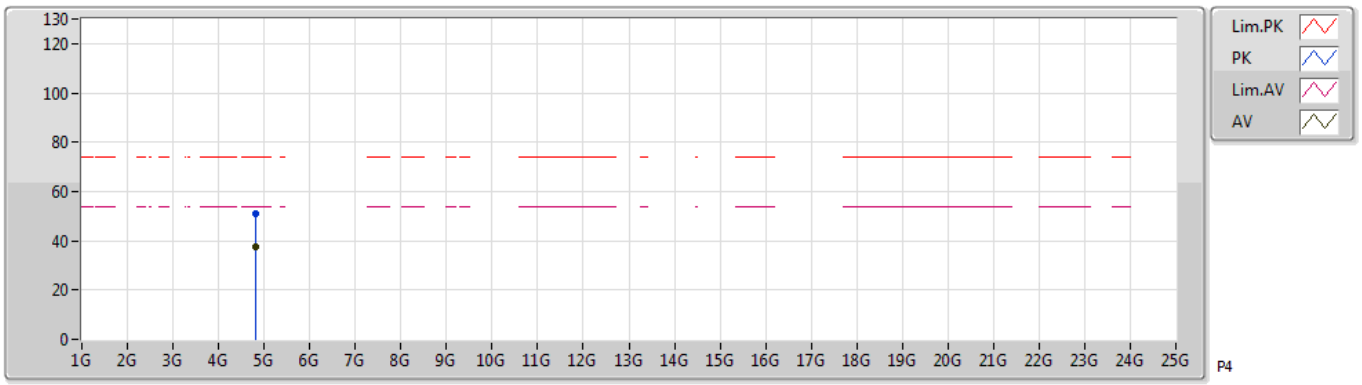
EUT Y_2TX
Setting 21
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8241G	50.28	74.00	-23.72	7.17	3	Vertical	190	2.21	-
AV	4.82394G	36.04	54.00	-17.96	7.17	3	Vertical	190	2.21	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

19/06/2019



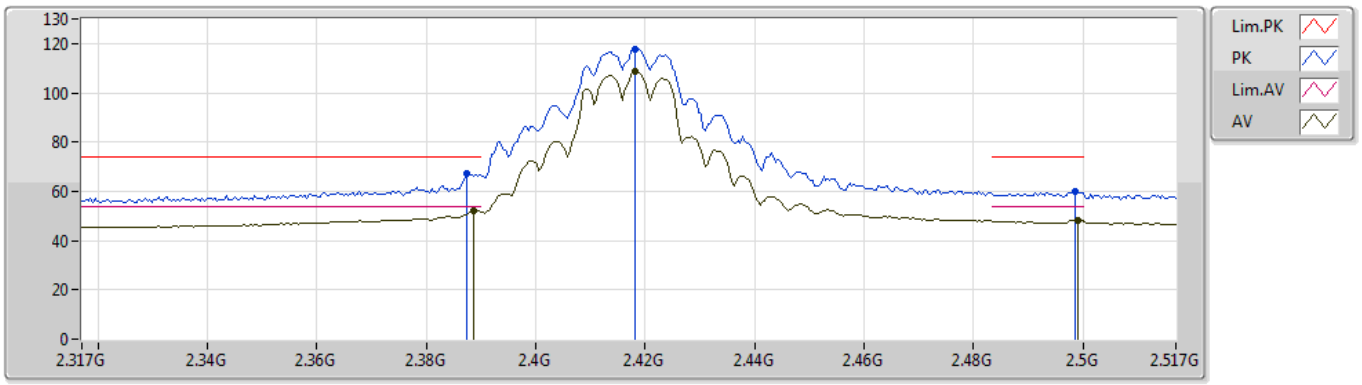
EUT Y_2TX
Setting 21
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82388G	51.15	74.00	-22.85	7.17	3	Horizontal	223	2.53	-
AV	4.82403G	37.50	54.00	-16.50	7.17	3	Horizontal	223	2.53	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

02/07/2019



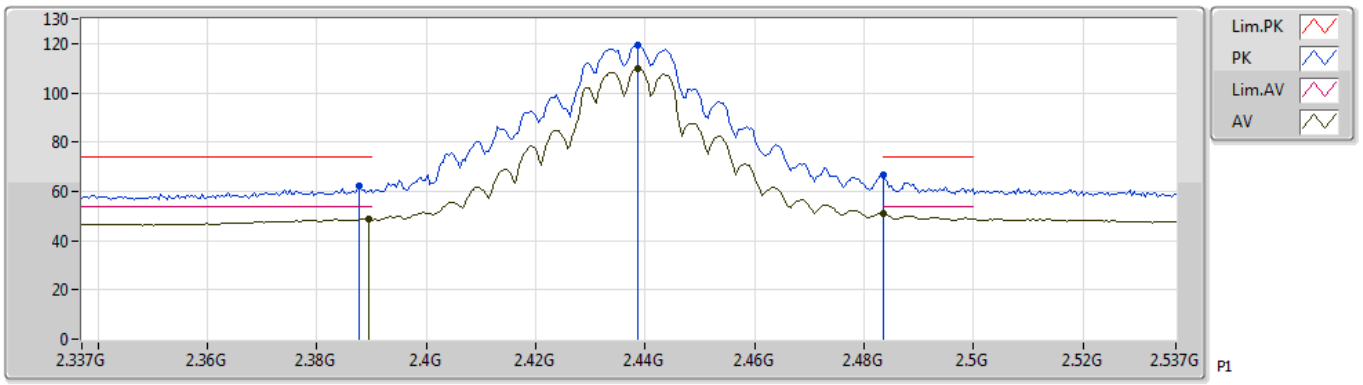
EUT Y_2TX
Setting 25
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3874G	67.33	74.00	-6.67	31.92	3	Vertical	35	1.29	-
AV	2.3886G	52.19	54.00	-1.81	31.93	3	Vertical	35	1.29	-
PK	2.4182G	117.85	Inf	-Inf	32.02	3	Vertical	35	1.29	-
AV	2.4182G	108.61	Inf	-Inf	32.02	3	Vertical	35	1.29	-
PK	2.4986G	60.07	74.00	-13.93	32.31	3	Vertical	35	1.29	-
AV	2.499G	48.41	54.00	-5.59	32.31	3	Vertical	35	1.29	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

19/06/2019



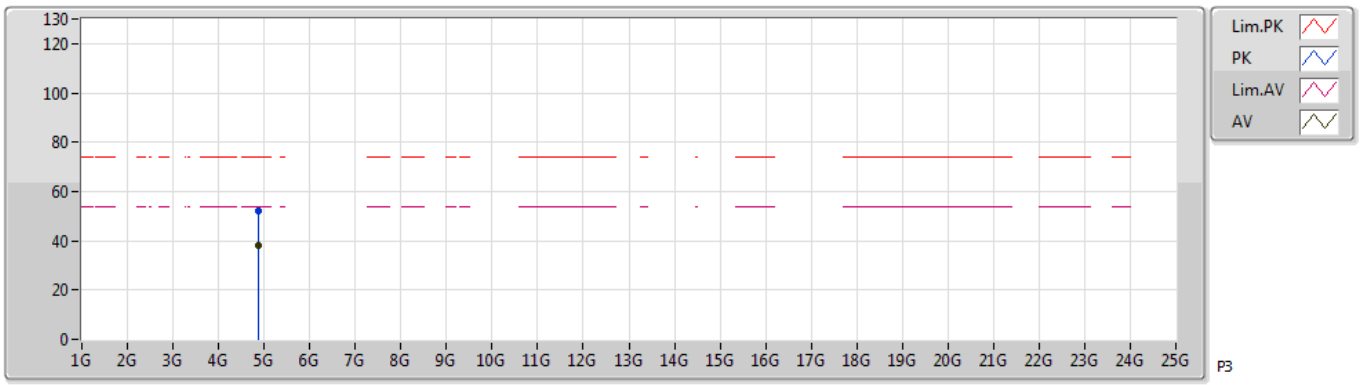
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3878G	61.96	74.00	-12.04	31.20	3	Vertical	333	1.22	-
AV	2.3894G	48.87	54.00	-5.13	31.20	3	Vertical	333	1.22	-
PK	2.4386G	119.31	Inf	-Inf	31.31	3	Vertical	333	1.22	-
AV	2.4386G	109.97	Inf	-Inf	31.31	3	Vertical	333	1.22	-
PK	2.4835G	66.68	74.00	-7.32	31.39	3	Vertical	333	1.22	-
AV	2.4835G	50.91	54.00	-3.09	31.39	3	Vertical	333	1.22	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

19/06/2019



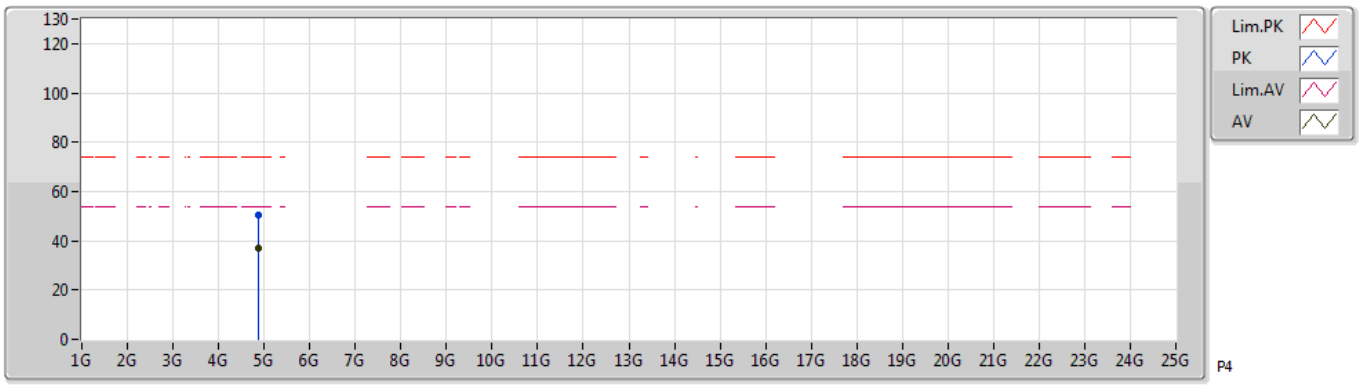
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87418G	52.09	74.00	-21.91	7.28	3	Vertical	178	2.66	-
AV	4.87373G	38.18	54.00	-15.82	7.28	3	Vertical	178	2.66	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

19/06/2019



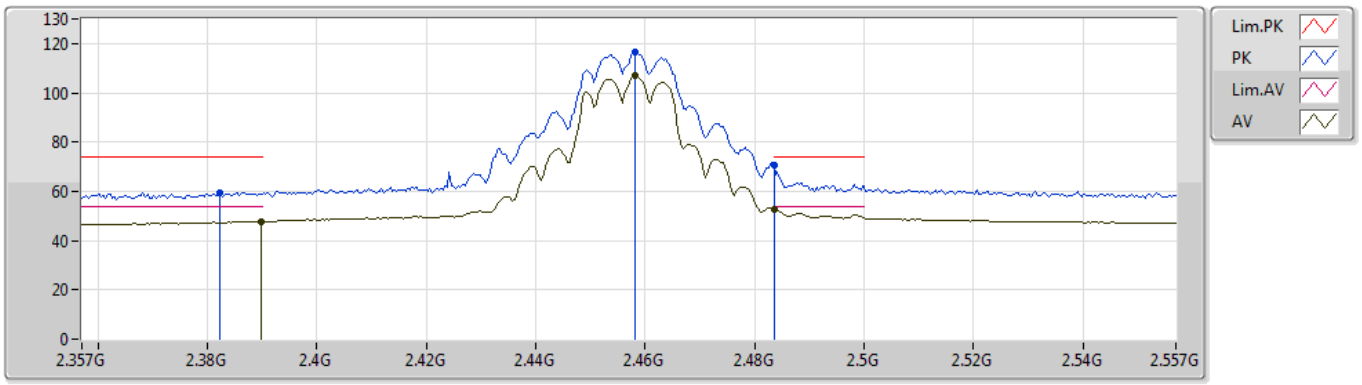
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87424G	50.68	74.00	-23.32	7.28	3	Horizontal	212	2.47	-
AV	4.87407G	36.72	54.00	-17.28	7.28	3	Horizontal	212	2.47	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

02/07/2019



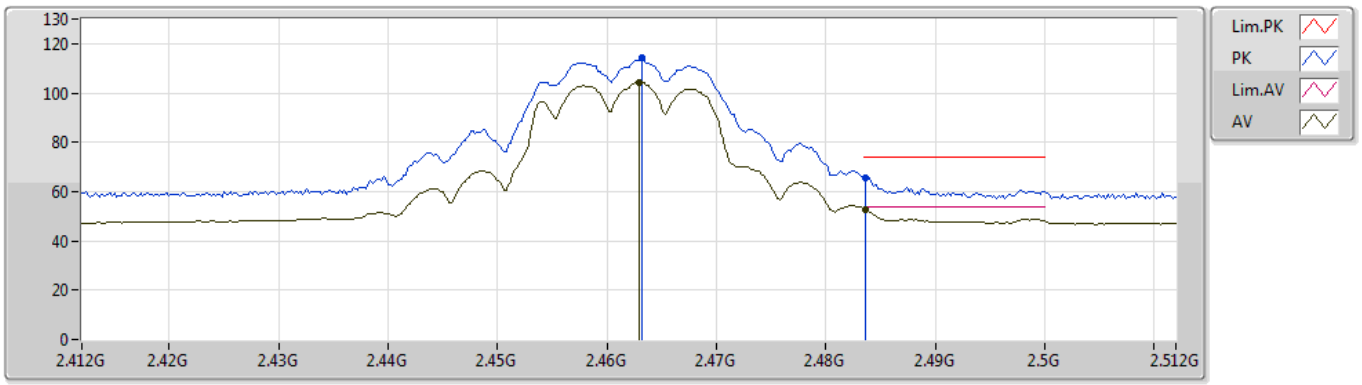
EUT Y_2TX
Setting 23
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3822G	59.64	74.00	-14.36	31.91	3	Vertical	34	1.40	-
AV	2.3898G	47.83	54.00	-6.17	31.93	3	Vertical	34	1.40	-
PK	2.4582G	116.35	Inf	-Inf	32.16	3	Vertical	34	1.40	-
AV	2.4582G	107.06	Inf	-Inf	32.16	3	Vertical	34	1.40	-
PK	2.4835G	70.63	74.00	-3.37	32.25	3	Vertical	34	1.40	-
AV	2.4835G	52.87	54.00	-1.13	32.25	3	Vertical	34	1.40	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

02/07/2019



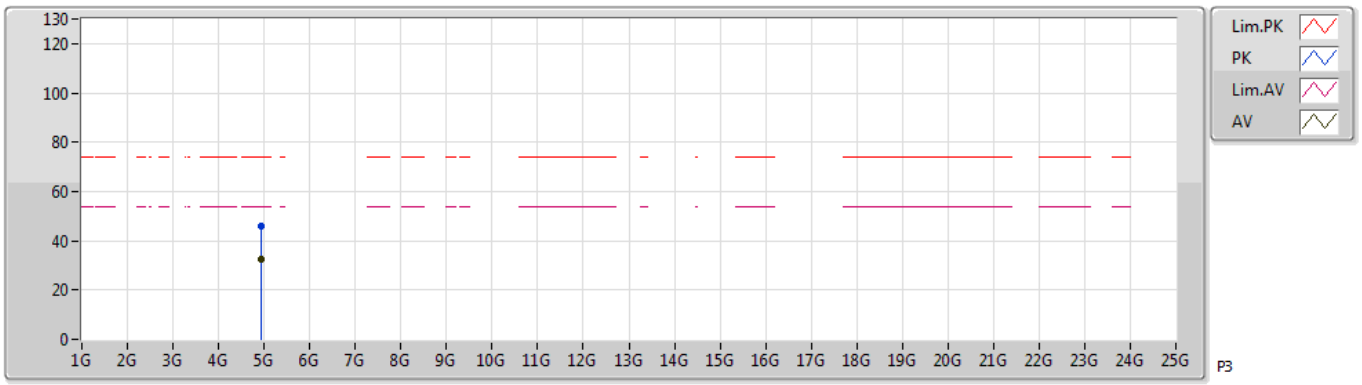
EUT Y_2TX
Setting 1D
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.4632G	114.16	Inf	-Inf	32.18	3	Vertical	38	1.50	-
AV	2.463G	104.49	Inf	-Inf	32.18	3	Vertical	38	1.50	-
PK	2.4836G	65.70	74.00	-8.30	32.25	3	Vertical	38	1.50	-
AV	2.4836G	52.93	54.00	-1.07	32.25	3	Vertical	38	1.50	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

19/06/2019



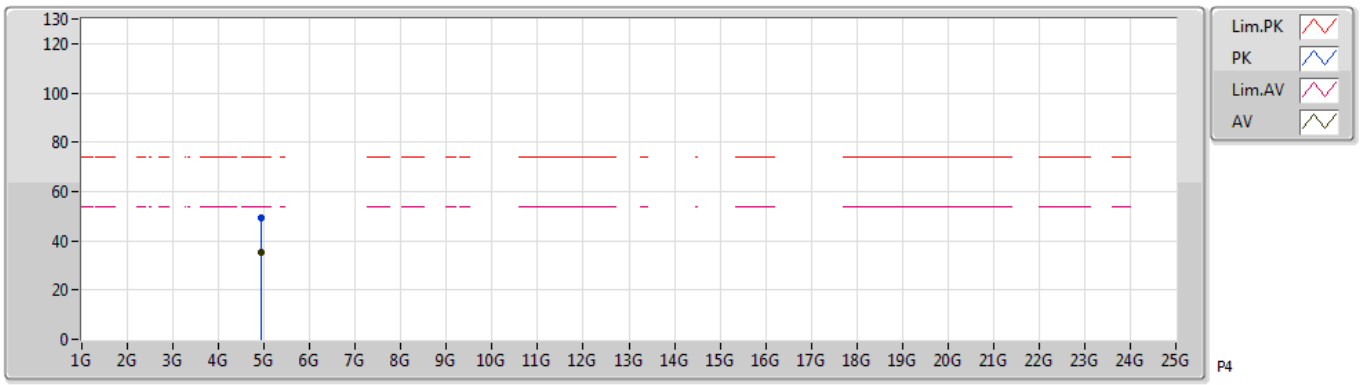
EUT Y_2TX
Setting 1D
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92409G	46.12	74.00	-27.88	7.40	3	Vertical	159	1.45	-
AV	4.92395G	32.28	54.00	-21.72	7.40	3	Vertical	159	1.45	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

19/06/2019



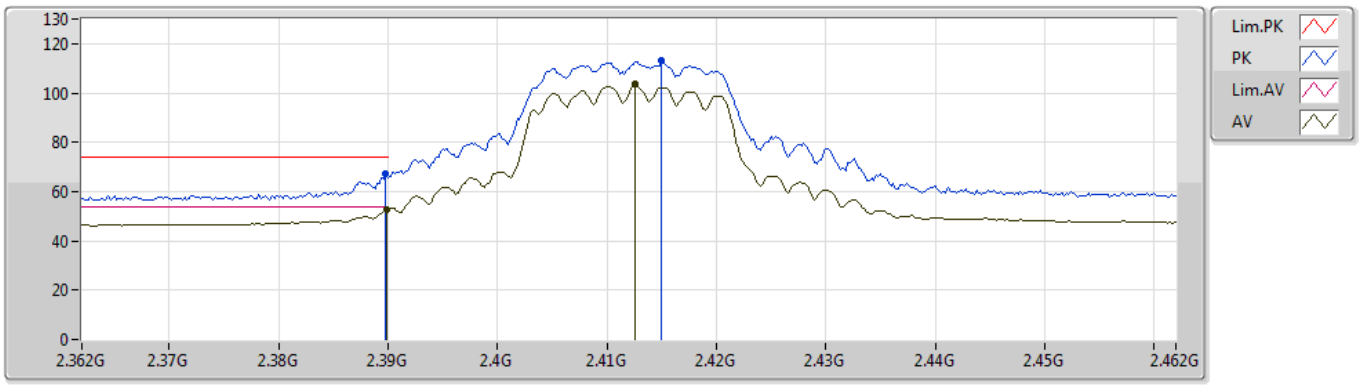
EUT Y_2TX
Setting 1D
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92383G	49.45	74.00	-24.55	7.40	3	Horizontal	223	2.43	-
AV	4.92371G	35.37	54.00	-18.63	7.40	3	Horizontal	223	2.43	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

02/07/2019



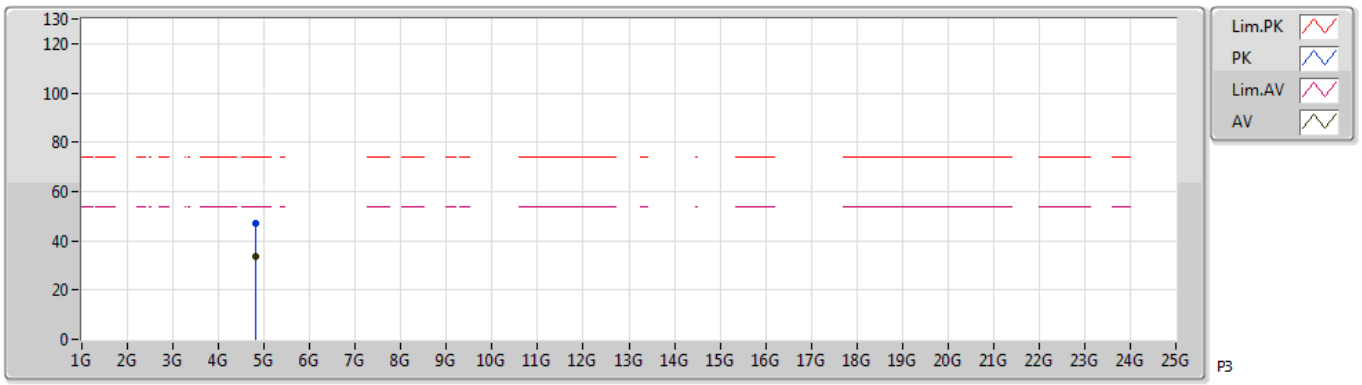
EUT Y_2TX
Setting 1C
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3898G	67.51	74.00	-6.49	32.47	3	Vertical	36	1.61	-
AV	2.3899G	52.92	54.00	-1.08	32.47	3	Vertical	36	1.61	-
PK	2.415G	113.31	Inf	-Inf	32.54	3	Vertical	36	1.61	-
AV	2.4126G	103.72	Inf	-Inf	32.54	3	Vertical	36	1.61	-

802.11n HT20_Nss1,(MCS0)_2TX

19/06/2019

2412MHz_TX



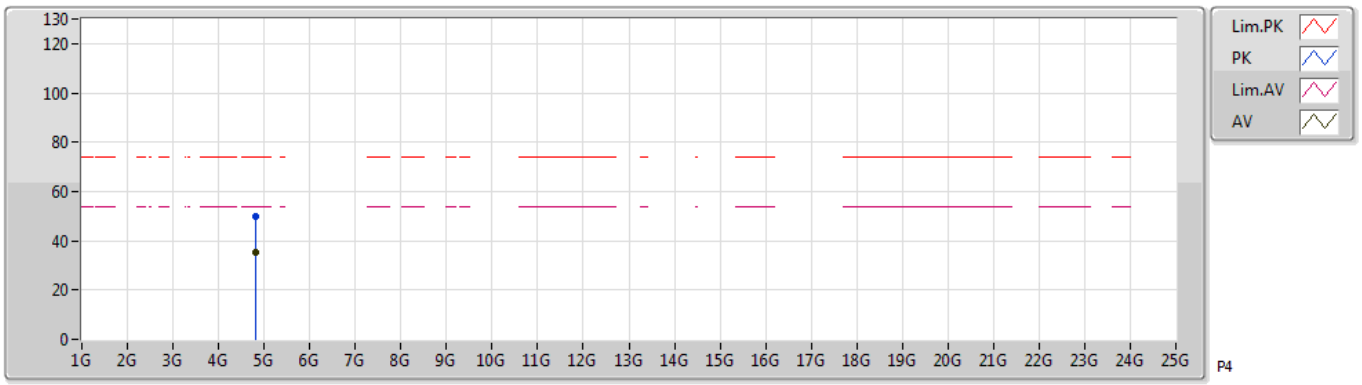
EUT Y_2TX
Setting 1C
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82432G	47.17	74.00	-26.83	7.17	3	Vertical	183	1.76	-
AV	4.82385G	33.41	54.00	-20.59	7.17	3	Vertical	183	1.76	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

19/06/2019



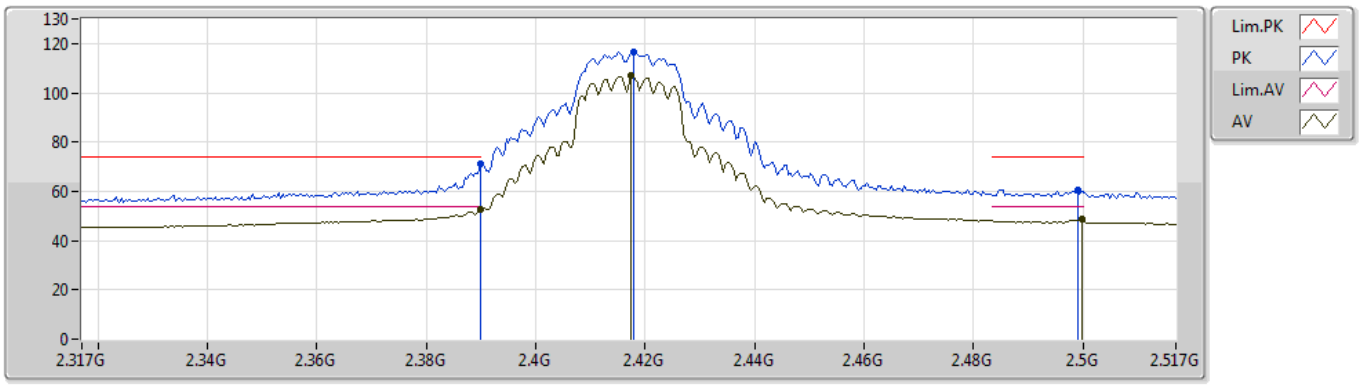
EUT Y_2TX
Setting 1C
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.82453G	49.68	74.00	-24.32	7.17	3	Horizontal	219	2.39	-
AV	4.82405G	35.52	54.00	-18.48	7.17	3	Horizontal	219	2.39	-

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

02/07/2019



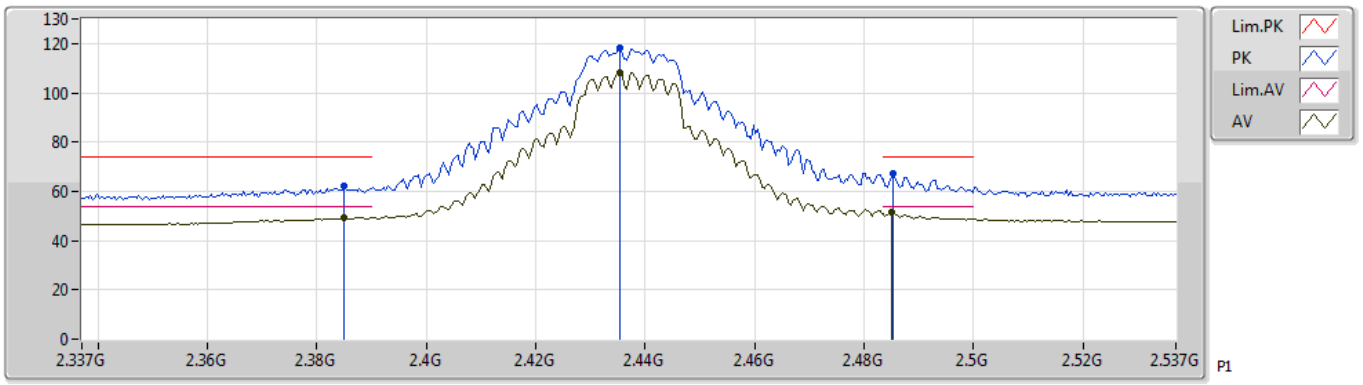
EUT Y_2TX
Setting 24
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3898G	71.30	74.00	-2.70	31.93	3	Vertical	33	1.35	-
AV	2.3898G	52.62	54.00	-1.38	31.93	3	Vertical	33	1.35	-
PK	2.4178G	116.45	Inf	-Inf	32.02	3	Vertical	33	1.35	-
AV	2.4174G	106.96	Inf	-Inf	32.02	3	Vertical	33	1.35	-
PK	2.499G	60.56	74.00	-13.44	32.31	3	Vertical	33	1.35	-
AV	2.4998G	48.59	54.00	-5.41	32.31	3	Vertical	33	1.35	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

19/06/2019



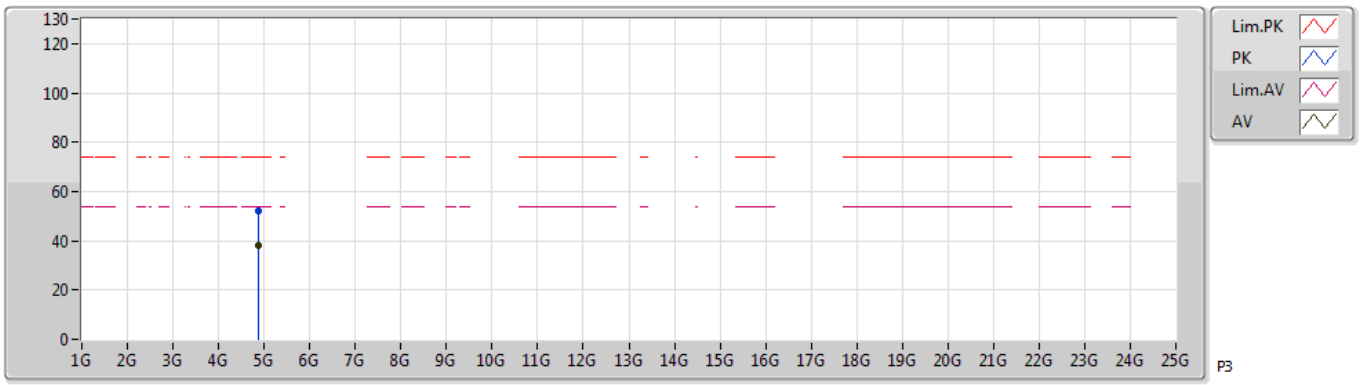
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.385G	62.28	74.00	-11.72	31.19	3	Vertical	331	1.49	-
AV	2.385G	49.38	54.00	-4.62	31.19	3	Vertical	331	1.49	-
PK	2.4354G	118.06	Inf	-Inf	31.30	3	Vertical	331	1.49	-
AV	2.4354G	108.08	Inf	-Inf	31.30	3	Vertical	331	1.49	-
PK	2.4854G	67.06	74.00	-6.94	31.40	3	Vertical	331	1.49	-
AV	2.485G	51.28	54.00	-2.72	31.40	3	Vertical	331	1.49	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

19/06/2019



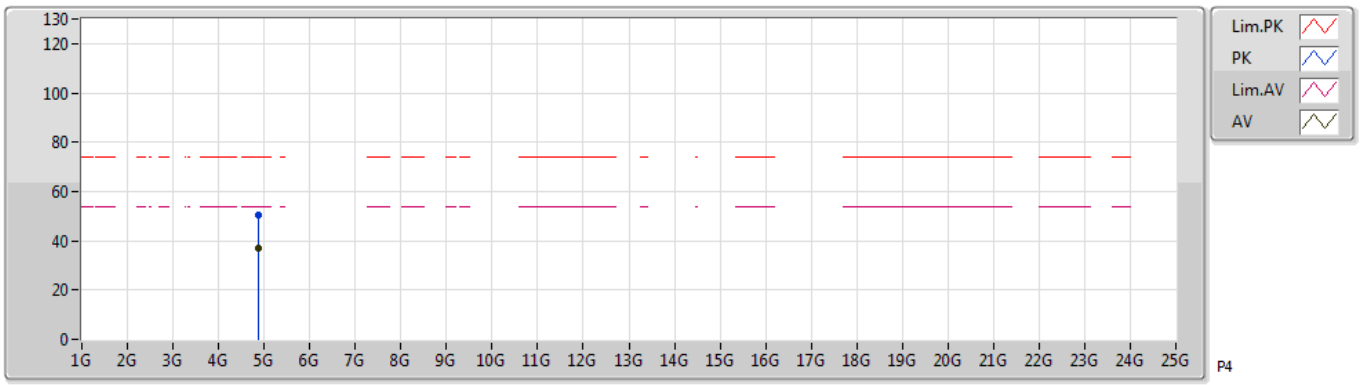
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87348G	52.12	74.00	-21.88	7.28	3	Vertical	181	2.51	-
AV	4.8739G	37.98	54.00	-16.02	7.28	3	Vertical	181	2.51	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

19/06/2019



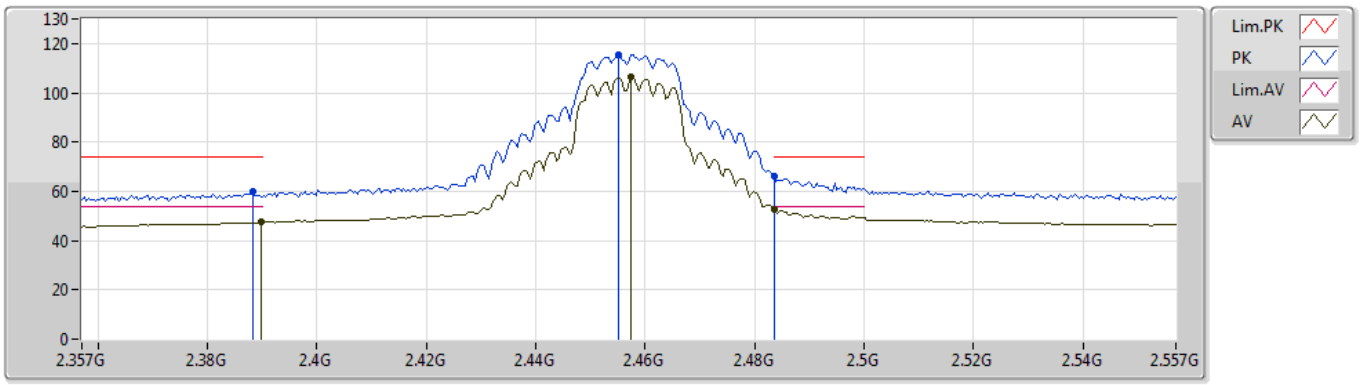
EUT Y_2TX
Setting 28
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87354G	50.48	74.00	-23.52	7.28	3	Horizontal	186	2.58	-
AV	4.87397G	36.81	54.00	-17.19	7.28	3	Horizontal	186	2.58	-

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

02/07/2019



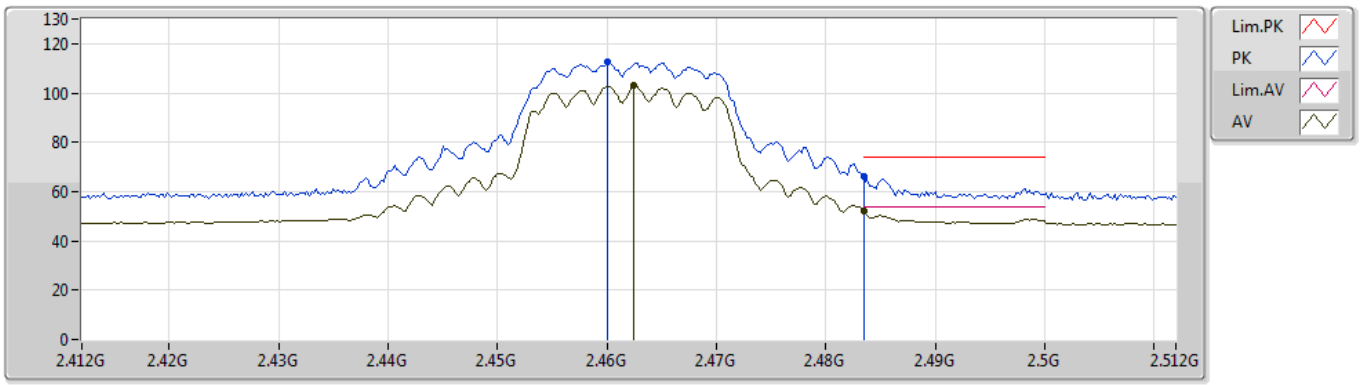
EUT Y_2TX
Setting 23
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3882G	59.81	74.00	-14.19	31.93	3	Vertical	35	1.49	-
AV	2.3898G	47.56	54.00	-6.44	31.93	3	Vertical	35	1.49	-
PK	2.455G	115.57	Inf	-Inf	32.15	3	Vertical	35	1.49	-
AV	2.4574G	106.34	Inf	-Inf	32.16	3	Vertical	35	1.49	-
PK	2.4835G	66.23	74.00	-7.77	32.25	3	Vertical	35	1.49	-
AV	2.4835G	52.88	54.00	-1.12	32.25	3	Vertical	35	1.49	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

02/07/2019



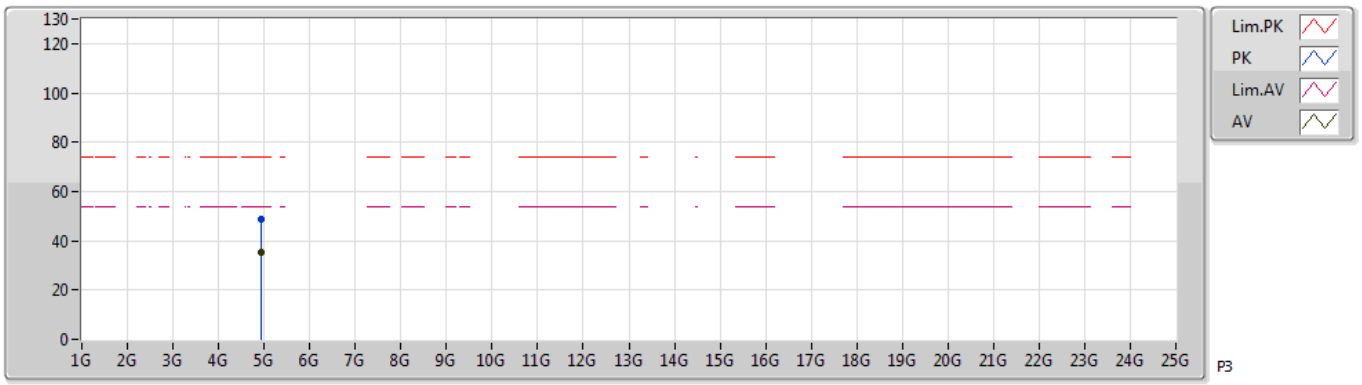
EUT Y_2TX
Setting 1B
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.46G	112.47	Inf	-Inf	32.17	3	Vertical	35	1.50	-
AV	2.4624G	102.89	Inf	-Inf	32.18	3	Vertical	35	1.50	-
PK	2.4835G	66.14	74.00	-7.86	32.25	3	Vertical	35	1.50	-
AV	2.4835G	52.07	54.00	-1.93	32.25	3	Vertical	35	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

19/06/2019



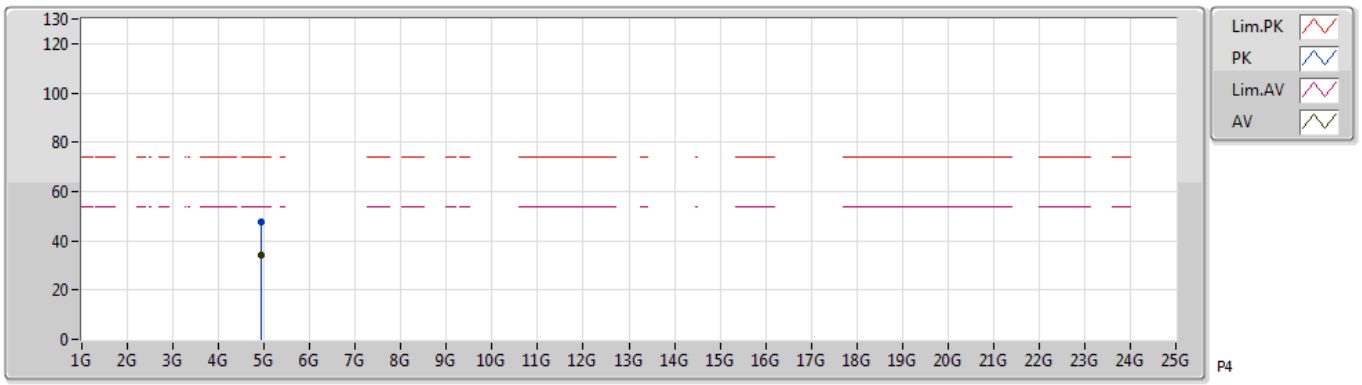
EUT Y_2TX
Setting 1B
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92369G	49.03	74.00	-24.97	7.40	3	Vertical	182	2.50	-
AV	4.92388G	35.17	54.00	-18.83	7.40	3	Vertical	182	2.50	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

19/06/2019



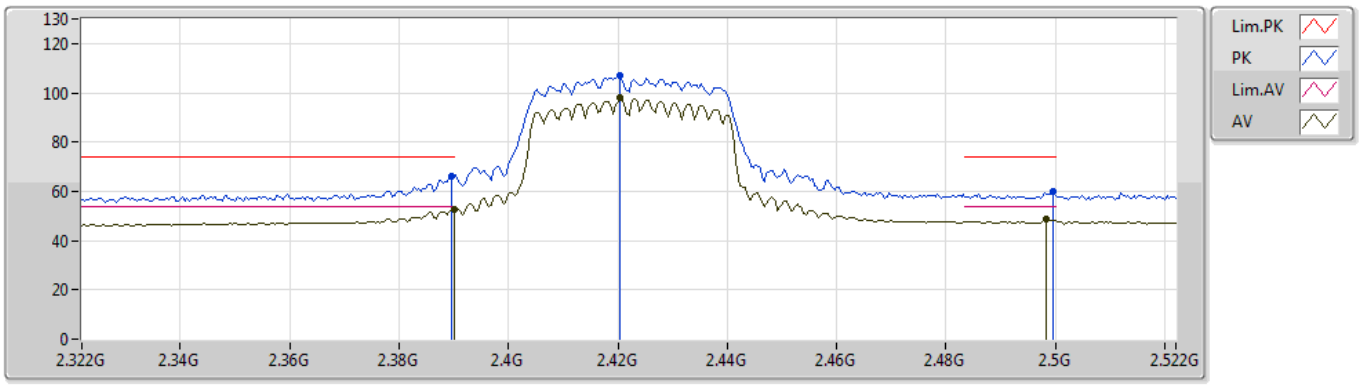
EUT Y_2TX
Setting 1B
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.92381G	47.88	74.00	-26.12	7.40	3	Horizontal	186	2.31	-
AV	4.92381G	34.18	54.00	-19.82	7.40	3	Horizontal	186	2.31	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

02/07/2019



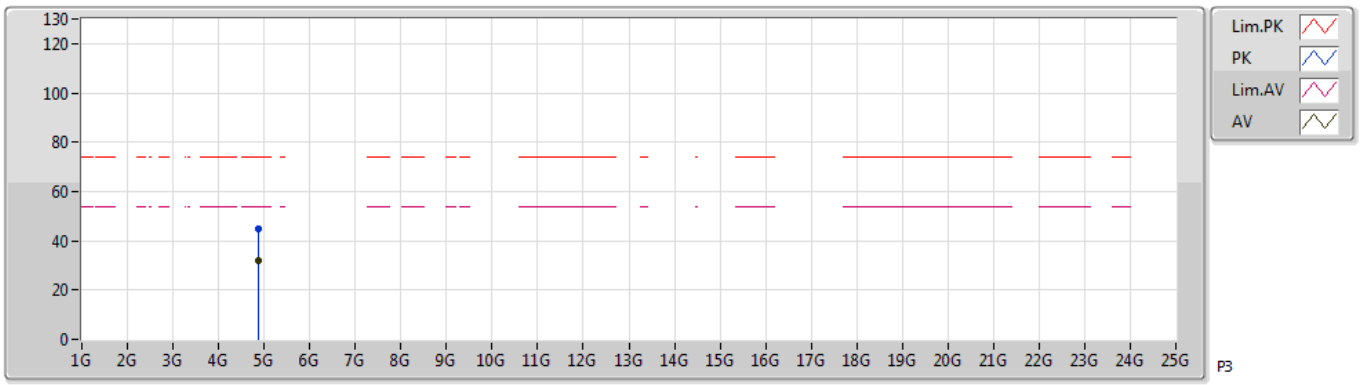
EUT Y_2TX
Setting 15
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3896G	65.86	74.00	-8.14	31.93	3	Vertical	30	1.28	-
AV	2.39G	52.89	54.00	-1.11	31.93	3	Vertical	30	1.28	-
PK	2.4204G	107.07	Inf	-Inf	32.03	3	Vertical	30	1.28	-
AV	2.4204G	97.92	Inf	-Inf	32.03	3	Vertical	30	1.28	-
PK	2.4996G	59.93	74.00	-14.07	32.31	3	Vertical	30	1.28	-
AV	2.4984G	48.51	54.00	-5.49	32.31	3	Vertical	30	1.28	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

19/06/2019



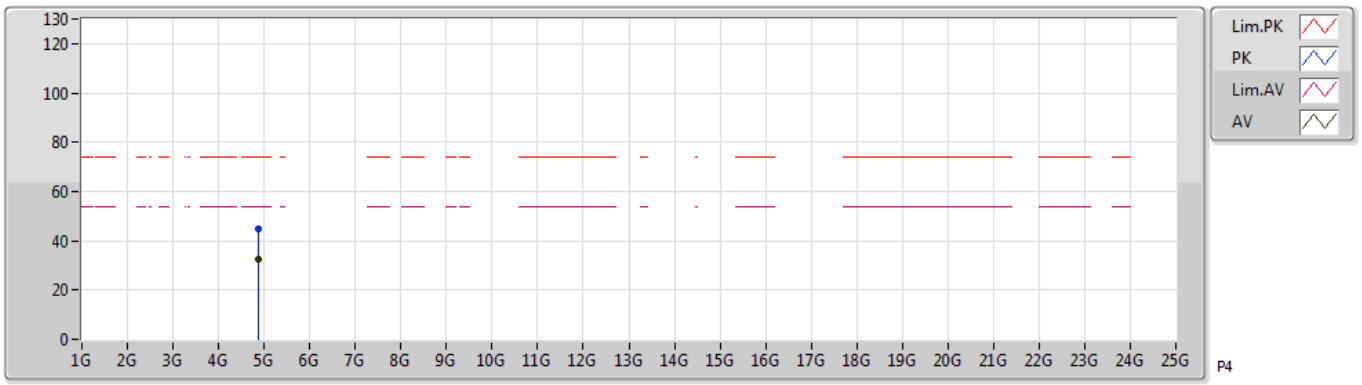
EUT Y_2TX
Setting 15
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87404G	44.86	74.00	-29.14	7.28	3	Vertical	151	2.03	-
AV	4.8733G	32.01	54.00	-21.99	7.28	3	Vertical	151	2.03	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

19/06/2019



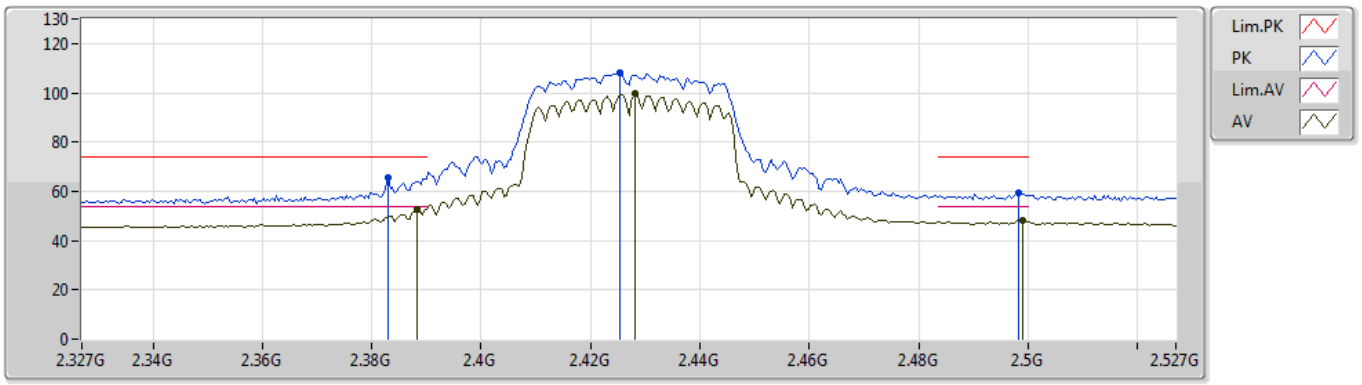
EUT Y_2TX
Setting 15
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87488G	44.98	74.00	-29.02	7.28	3	Horizontal	180	2.28	-
AV	4.87316G	32.33	54.00	-21.67	7.28	3	Horizontal	180	2.28	-

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

02/07/2019



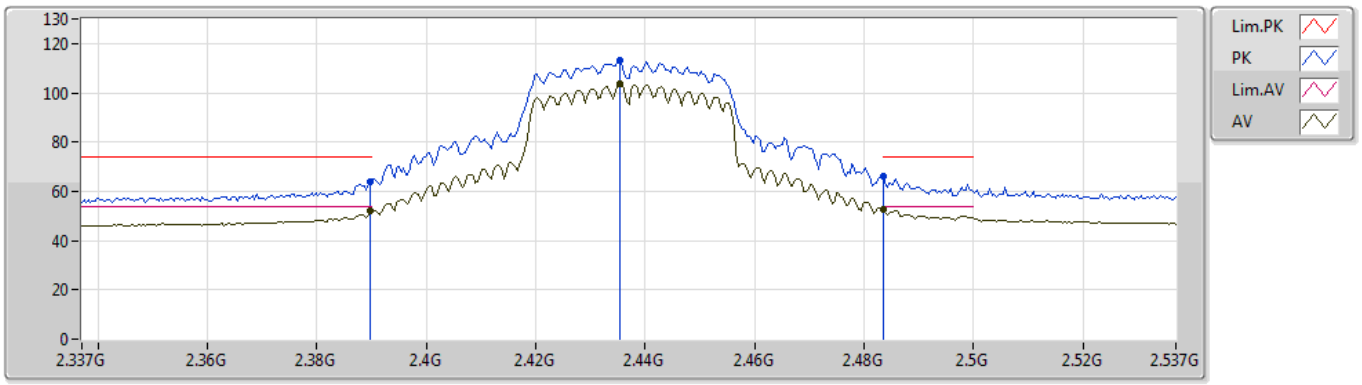
EUT Y_2TX
Setting 18
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.383G	65.38	74.00	-8.62	31.92	3	Vertical	337	1.65	-
AV	2.3882G	52.55	54.00	-1.45	31.93	3	Vertical	337	1.65	-
PK	2.4254G	108.09	Inf	-Inf	32.05	3	Vertical	337	1.65	-
AV	2.4282G	99.64	Inf	-Inf	32.05	3	Vertical	337	1.65	-
PK	2.4982G	59.48	74.00	-14.52	32.30	3	Vertical	337	1.65	-
AV	2.499G	48.19	54.00	-5.81	32.31	3	Vertical	337	1.65	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

02/07/2019



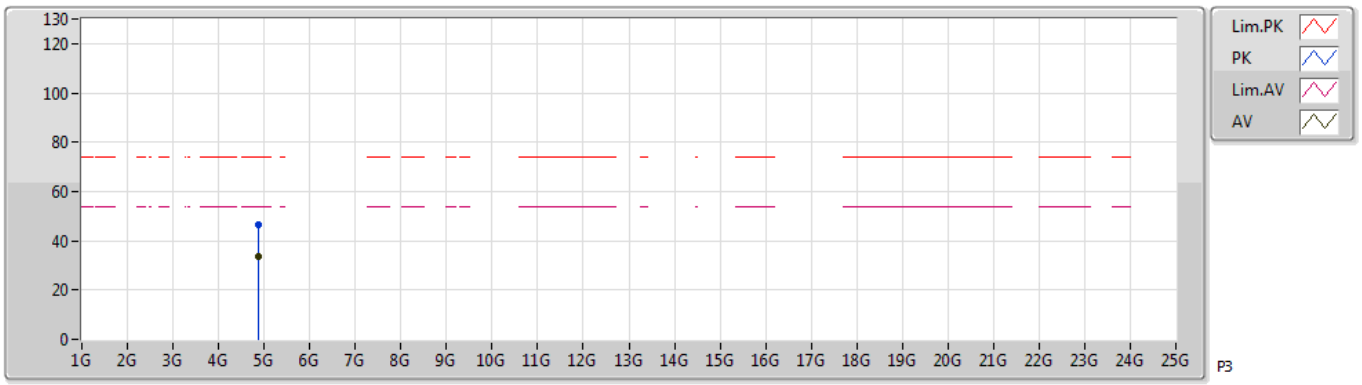
EUT Y_2TX
Setting 1E
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3898G	63.65	74.00	-10.35	31.93	3	Vertical	342	1.32	-
AV	2.3898G	51.84	54.00	-2.16	31.93	3	Vertical	342	1.32	-
PK	2.4354G	113.06	Inf	-Inf	32.09	3	Vertical	342	1.32	-
AV	2.4354G	103.61	Inf	-Inf	32.09	3	Vertical	342	1.32	-
PK	2.4836G	66.36	74.00	-7.64	32.25	3	Vertical	342	1.32	-
AV	2.4836G	52.94	54.00	-1.06	32.25	3	Vertical	342	1.32	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

19/06/2019



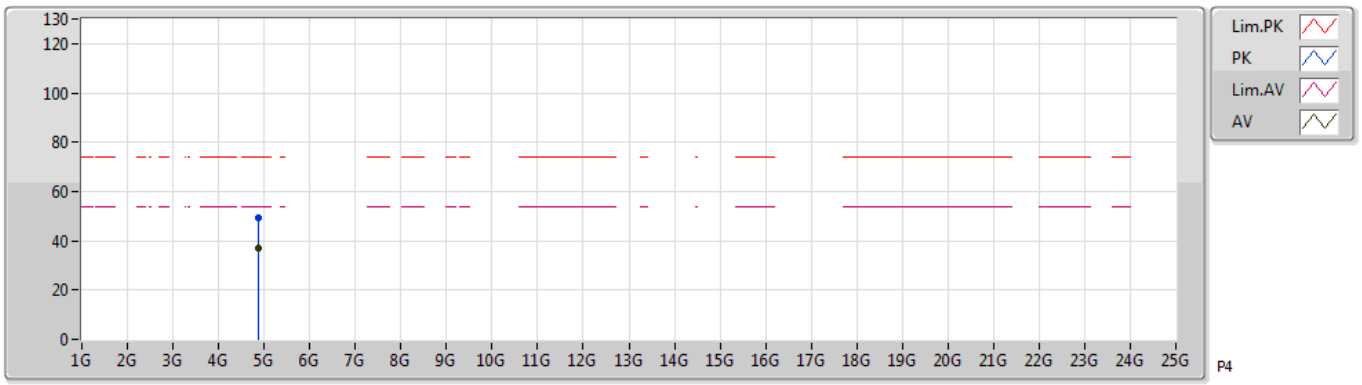
EUT Y_2TX
Setting 1E
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.87412G	46.51	74.00	-27.49	7.28	3	Vertical	122	1.44	-
AV	4.87392G	33.83	54.00	-20.17	7.28	3	Vertical	122	1.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

19/06/2019



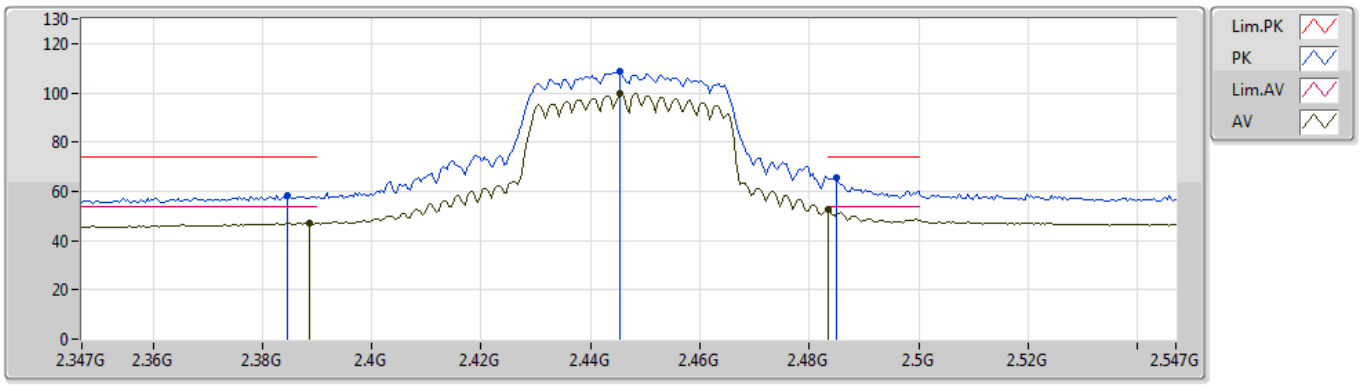
EUT Y_2TX
Setting 1E
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.8736G	49.08	74.00	-24.92	7.28	3	Horizontal	217	2.44	-
AV	4.87376G	36.80	54.00	-17.20	7.28	3	Horizontal	217	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

02/07/2019



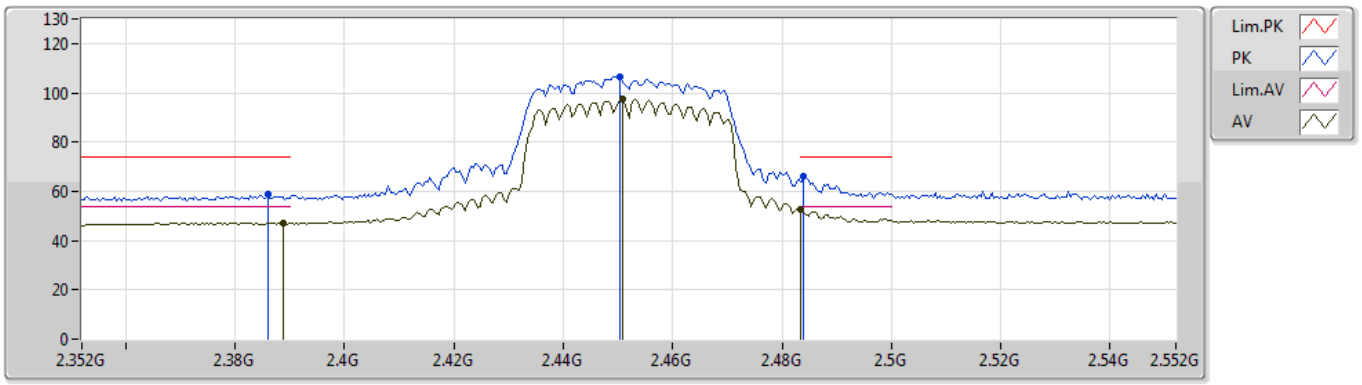
EUT Y_2TX
Setting 19
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.3846G	58.45	74.00	-15.55	31.92	3	Vertical	338	1.66	-
AV	2.3886G	47.06	54.00	-6.94	31.93	3	Vertical	338	1.66	-
PK	2.4454G	108.58	Inf	-Inf	32.12	3	Vertical	338	1.66	-
AV	2.4454G	99.89	Inf	-Inf	32.12	3	Vertical	338	1.66	-
PK	2.485G	65.82	74.00	-8.18	32.26	3	Vertical	338	1.66	-
AV	2.4835G	52.68	54.00	-1.32	32.25	3	Vertical	338	1.66	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

02/07/2019



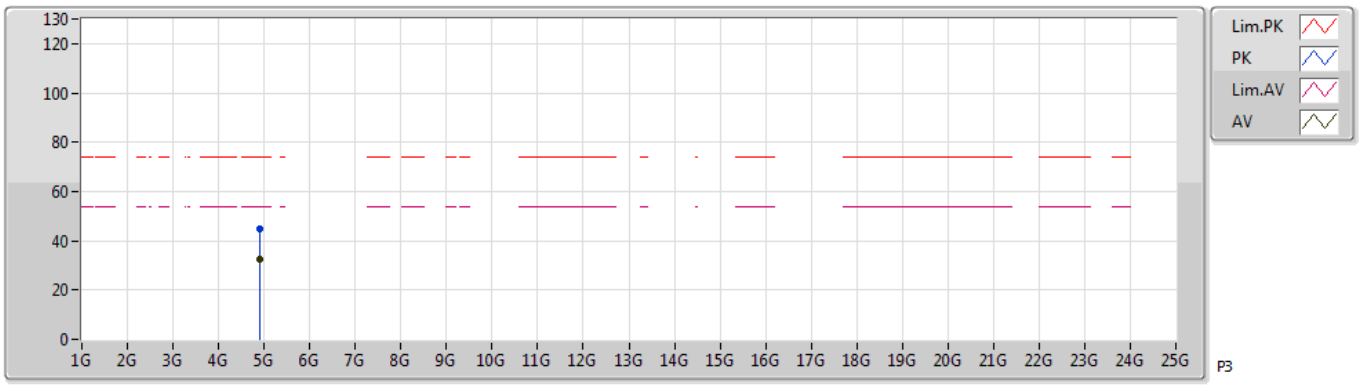
EUT Y_2TX
Setting 17
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	2.386G	58.78	74.00	-15.22	31.92	3	Vertical	24	1.28	-
AV	2.3888G	47.24	54.00	-6.76	31.93	3	Vertical	24	1.28	-
PK	2.4504G	106.34	Inf	-Inf	32.14	3	Vertical	24	1.28	-
AV	2.4508G	97.55	Inf	-Inf	32.14	3	Vertical	24	1.28	-
PK	2.484G	65.86	74.00	-8.14	32.25	3	Vertical	24	1.28	-
AV	2.4835G	52.83	54.00	-1.17	32.25	3	Vertical	24	1.28	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

19/06/2019



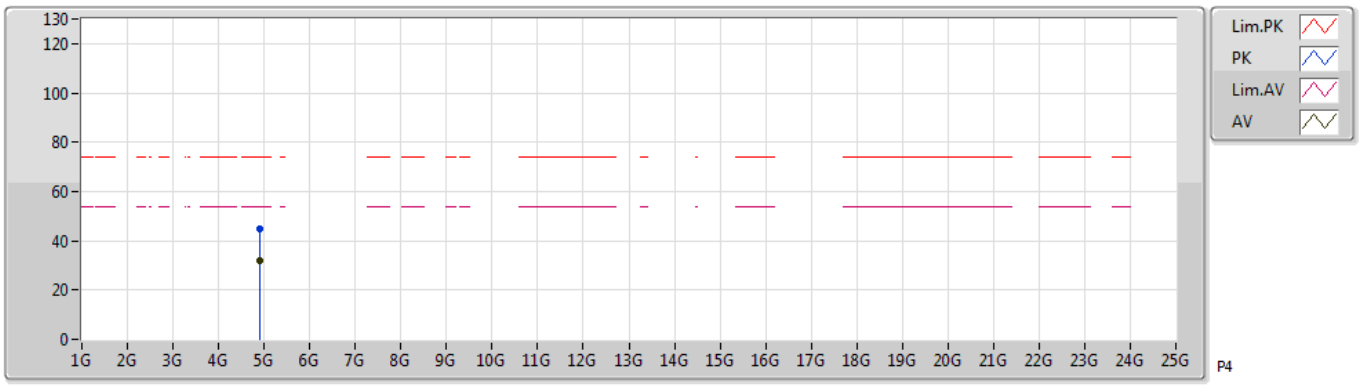
EUT Y_2TX
Setting 17
02-G-2
FSU(100015)

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.90386G	44.58	74.00	-29.42	7.36	3	Vertical	2	1.35	-
AV	4.90312G	32.22	54.00	-21.78	7.36	3	Vertical	2	1.35	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

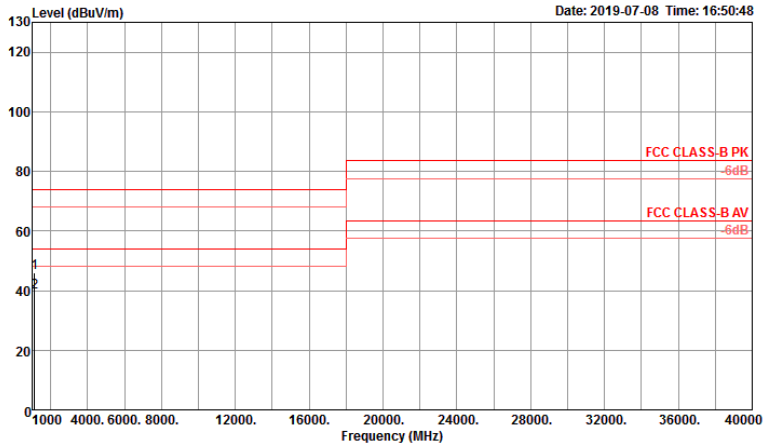
19/06/2019



EUT Y_2TX
Setting 17
02-G-2
FSU(100015)

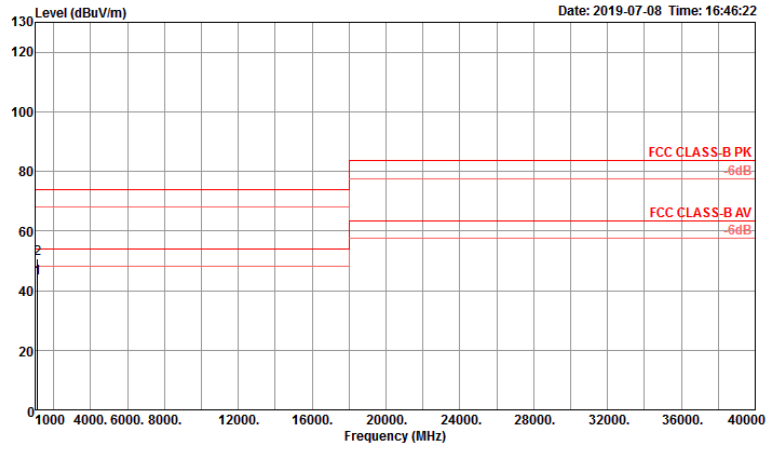
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	4.90481G	44.58	74.00	-29.42	7.36	3	Horizontal	16	2.21	-
AV	4.90374G	32.04	54.00	-21.96	7.36	3	Horizontal	16	2.21	-

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1139.96	45.87	74.00	-28.13	52.80	2.99	24.32	34.24	180	199	Peak	HORIZONTAL
2	1140.16	39.63	54.00	-14.37	46.56	2.99	24.32	34.24	180	199	Average	HORIZONTAL

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



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1140.08	44.15	54.00	-9.85	51.08	2.99	24.32	34.24	106	153	Average	VERTICAL
2	1140.16	50.83	74.00	-23.17	57.76	2.99	24.32	34.24	106	153	Peak	VERTICAL