Testing Laboratory 1190

NCC RADIO TEST REPORT

Equipment	:	AC750 Wi-Fi 訊號延伸器
Brand Name	:	tp-link
Model Name	:	RE205
Applicant	:	聯洲國際有限公司 新北市板橋區中山路一段 156 號 13 樓
Manufacturer	:	普聯技術有限公司 深圳市南山區深南路科技園工業廠房 24 棟南段 1,3,4,5 層，28 棟 1-4 層
Standard	:	LP0002 Section 3.10.1 (2018-01-10)

The product was received on Nov. 13, 2019, and testing was started from Nov. 26, 2019 and completed on May 25, 2020. 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: Cliff Chang

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

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Photographs of EUT v01

History of this test report

Report No.	Version	Description	Issued Date
TR892823-02AA	01	Initial issue of report	May 29, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.10.1.4	Antenna Requirement	PASS	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	3.10.1.6	DTS Bandwidth	PASS	-
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	3.10.1.6	Power Spectral Density	PASS	-
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	3.10.1.5	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: Vicky Huang

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.	2.4GHz Port	5GHz Port	Brand	Product Number	Antenna Type	Connector	Gain (dBi)
1	1	1	tp-link	3101502793	Dipole Antenna	N/A	Note1
2	2	-	tp-link	3101502792	Dipole Antenna	N/A	

Note1:

Ant.	Gain (dBi)				
	2.4GHz	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4
1	1.95	2.2	2.3	2.6	1.9
2	1.95	-	-	-	-

Note2: The above information was declared by manufacturer.

Note3: The EUT has two antennas.

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

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz function (1TX/1RX):

Only Port 1 could transmit/receive.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.946	0.24	1.4m	1k
802.11n HT20	0.938	0.28	1.3m	1k
802.11n HT40	0.892	0.5	637.5u	3k

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

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QATool_Dbg.exe			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function	Supports type
AP router	Master
Extender	Master + Slave without radar detection

Note: The EUT supports AP router and Extender mode, only Extender mode was tested and recorded in this test report by manufacturer request.

1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- NCC LP0002 (2018-01-10)
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

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	Justin Lin	23.2~24.1°C / 53~55%	Dec. 02, 2019
Radiated below 1GHz (For Intentional - CTX)	03CH06-CB	Stim Sung	24~24.6°C / 66~67%	May 25, 2020
Radiated below 1GHz (For Unintentional - Normal Link) Radiated above 1GHz (For Unintentional 1GHz~5th Harmonic)	03CH05-CB	Eason Chen	23.8~24.6°C / 59~62%	Nov. 26, 2019 ~ Nov. 27, 2019
Radiated above 1GHz (For Intentional 1GHz~10th Harmonic)	03CH01-CB	Justin Lin	22.4~23.6°C / 59~63%	Nov. 27, 2019 ~ Nov. 30, 2019
AC Conduction	CO02-CB	Rick Yeh	21~22°C / 50~51%	Dec. 09, 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)	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	21
2437MHz	24
2462MHz	23
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	1B
2417MHz	20
2437MHz	28
2457MHz	1F
2462MHz	1A
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	21
2437MHz	28
2457MHz	1F
2462MHz	1A
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	12
2427MHz	15
2437MHz	1B
2447MHz	15
2452MHz	12

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	Unintentional - Normal Link
1	Extender mode

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	Intentional - CTX
	The EUT was performed at Y axis and Z axis position for Emissions in Restricted Frequency Bands intentional 1GHz~10th Harmonic test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis - 2.4GHz
2	EUT in Y axis - 5GHz
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode < 1GHz	Unintentional - Normal Link
1	Extender mode - EUT in Y axis
2	Extender mode - EUT in Z axis
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	Unintentional 1GHz~5th Harmonic
	Extender mode - EUT in Y axis generated the worst test result for Emissions in Restricted Frequency Bands Unintentional below 1GHz test, thus the measurement will follow this same test configuration.
1	Extender mode - EUT in Y axis

Operating Mode > 1GHz	Intentional 1GHz~10th Harmonic
	The EUT was performed at Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis

Note:

The applicant declared that the accessories of this case were for measurement only and it would not be marketed.

The accessories will be provided and inspected by the laboratory (or the applicant).

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

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	LAN NB	DELL	E6430	N/A	Provided by Lab.
B	2.4G NB	DELL	E6430	N/A	Provided by Lab.
C	5G NB	DELL	E6430	N/A	Provided by Lab.
D	AP Router	ASUS	RP-N53	MSQ-RPN53	Provided by Lab.

For Radiated:
(Below 1GHz: Intentional-CTX):

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

(Below 1GHz: Unintentional-CRX and Above 1GHz: Unintentional 1GHz~5th-CRX):

Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab.
B	NB	DELL	E4300	N/A	Provided by Lab.
C	NB	DELL	E4300	N/A	Provided by Lab.
D	WLAN AP	NETGEAR	WNDR3300v2	PY309300116	Provided by Lab.

(Above 1GHz: Intentional 1GHz~10th-CTX):

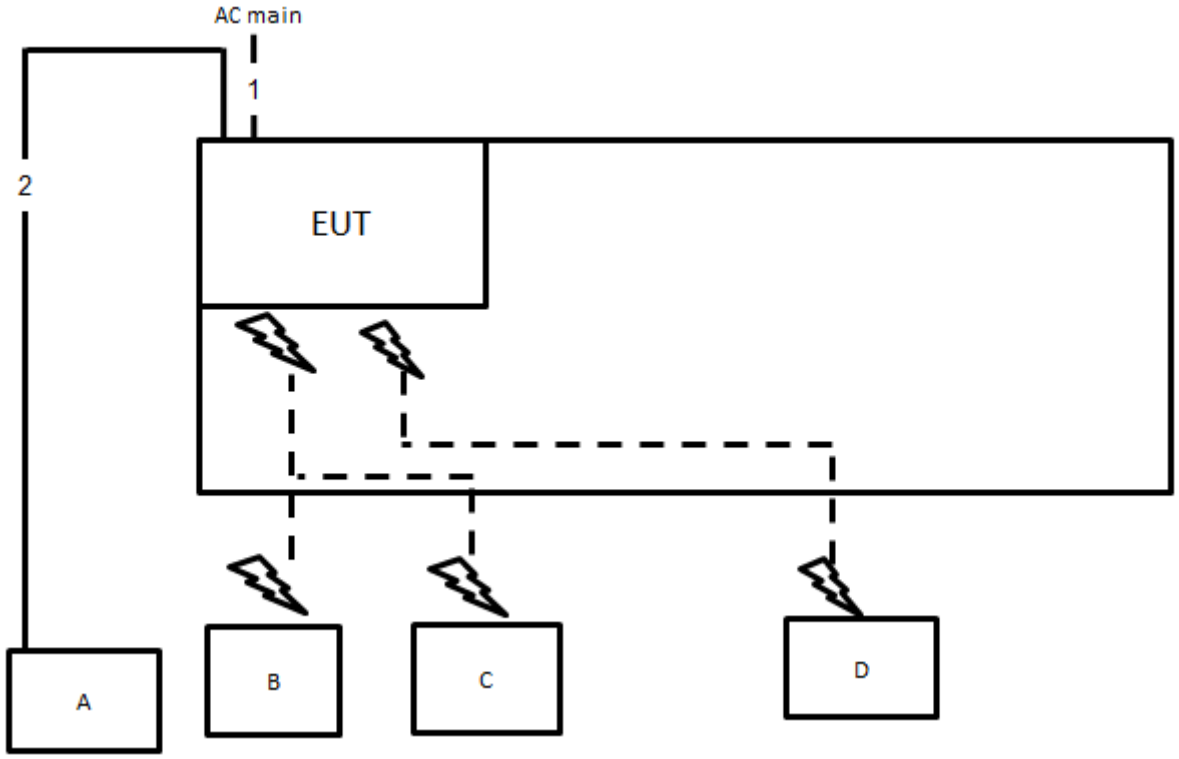
Support Equipment					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
A	NB	DELL	E4300	N/A	Provided by Lab.

For RF Conducted:

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

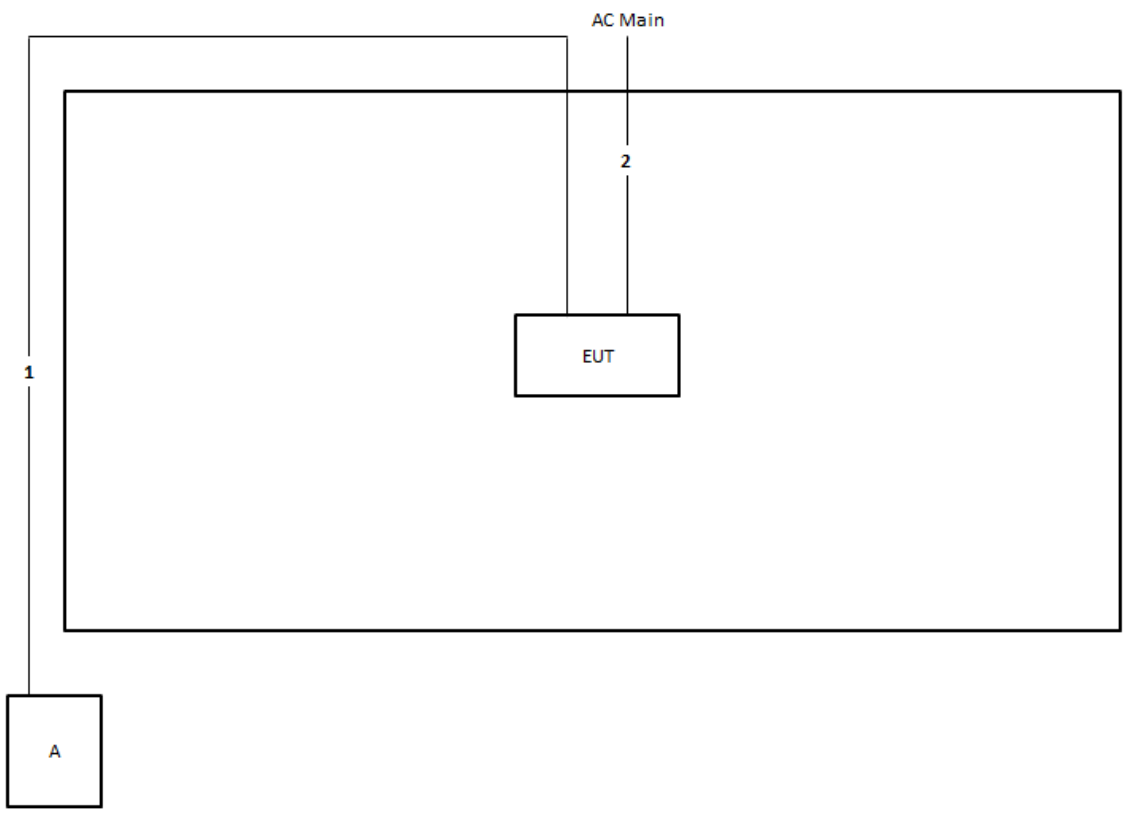
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



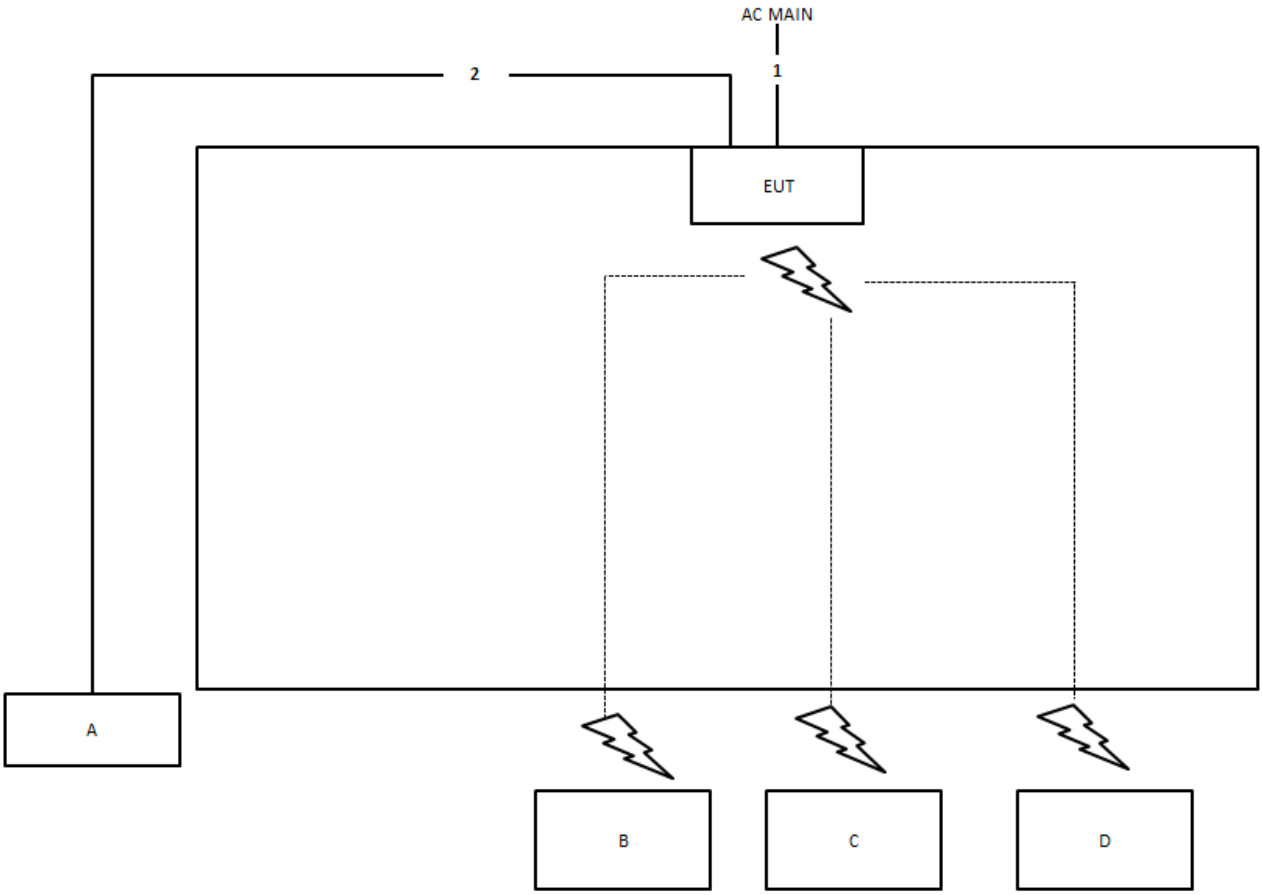
Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	Power cable	No	1.8m	PowerSync	C65B10FL	Provided by Lab.
2	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test < 1GHz / Intentional-CTX



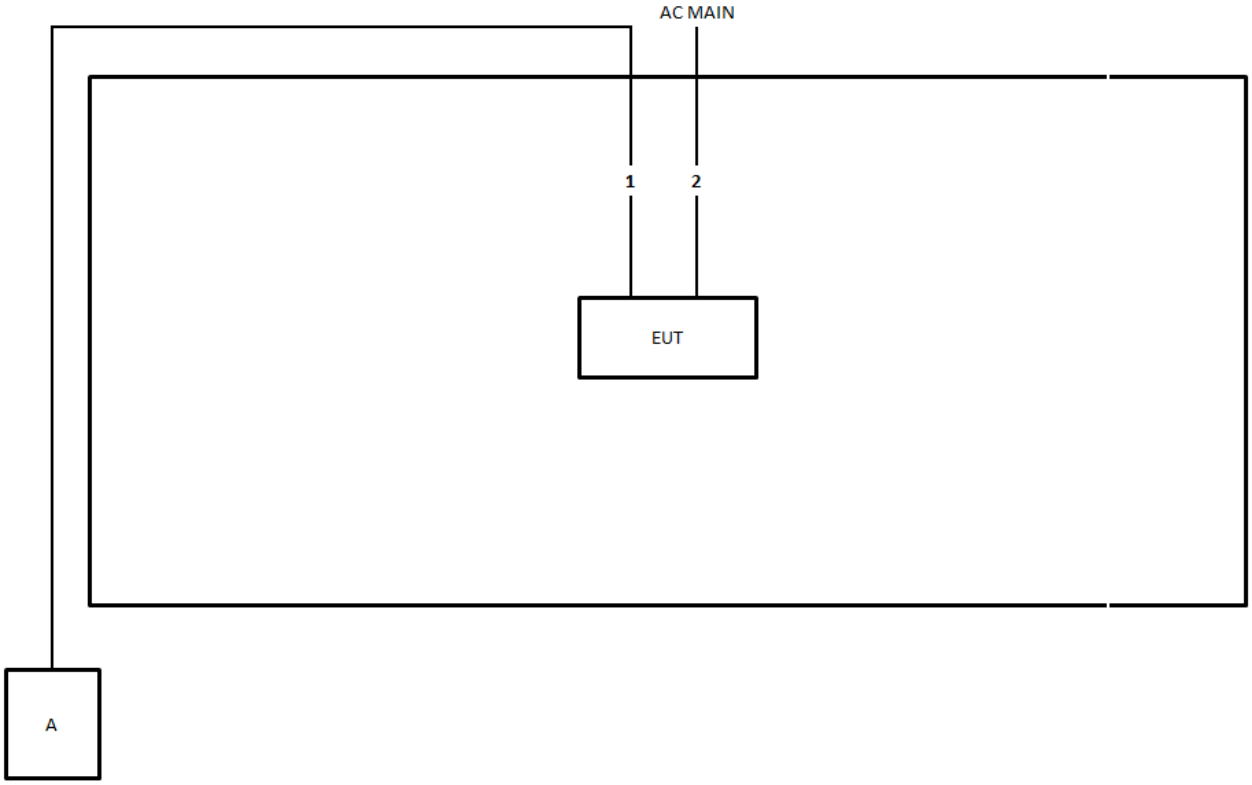
Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.
2	Power cable	No	1.8m	PowerSync	C65B10FL	Provided by Lab.

Test Setup Diagram - Radiated Test < 1GHz / Unintentional-CRX and Radiated Test > 1GHz Unintentional 1GHz~5th-CRX



Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	Power cable	No	1.8m	PowerSync	C65B10FL	Provided by Lab.
2	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.

Test Setup Diagram - Radiated Test > 1GHz / Intentional 1GHz~10th-CTX



Item	Connection	Shielded	Length	Brand	Model No.	Remark
1	RJ-45 cable	No	10m	Powersync	CLN5GBR9020	Provided by Lab.
2	Power cable	No	1.8m	PowerSync	C65B10FL	Provided by Lab.

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

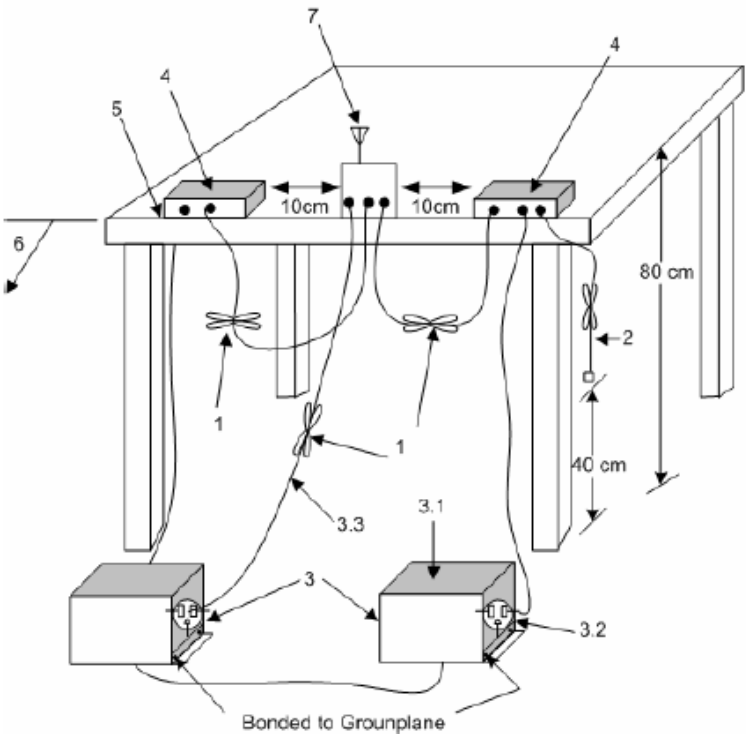
Refer a test equipment and calibration data table in this test report.

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

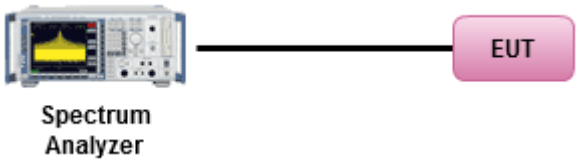
Refer a test equipment and calibration data table in this test report.

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.

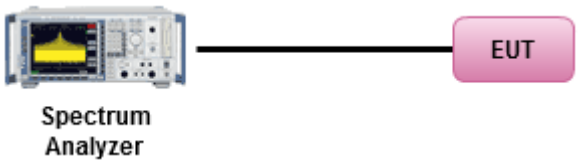
3.4.3 Test Procedures

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

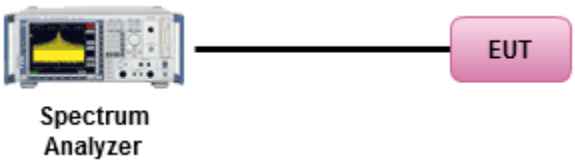
Refer a test equipment and calibration data table in this test report.

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.

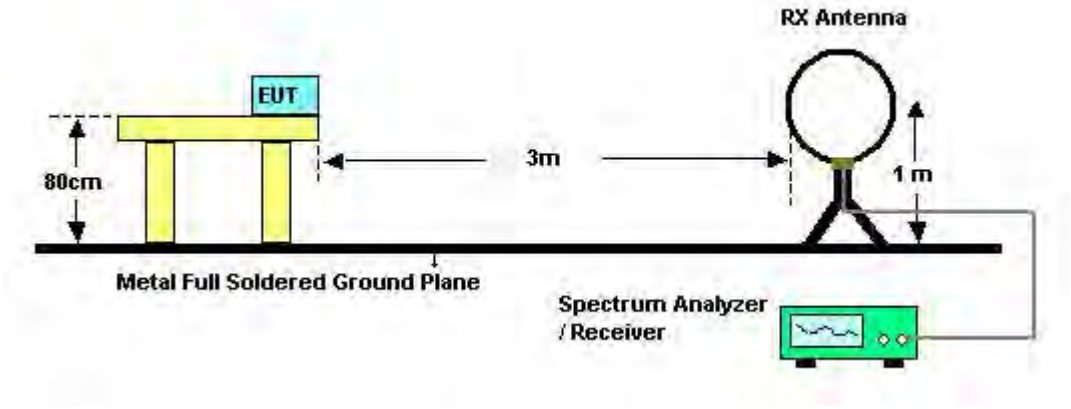
3.6.3 Test Procedures

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.		

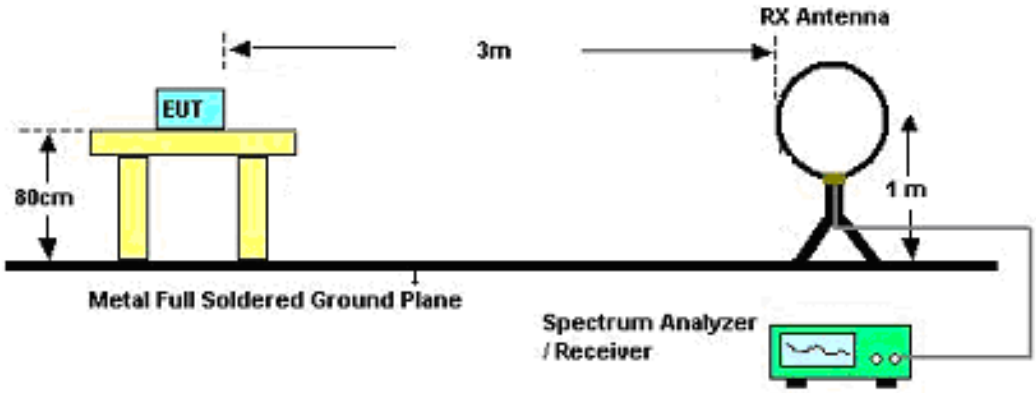
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands
9kHz ~30MHz

Unintentional

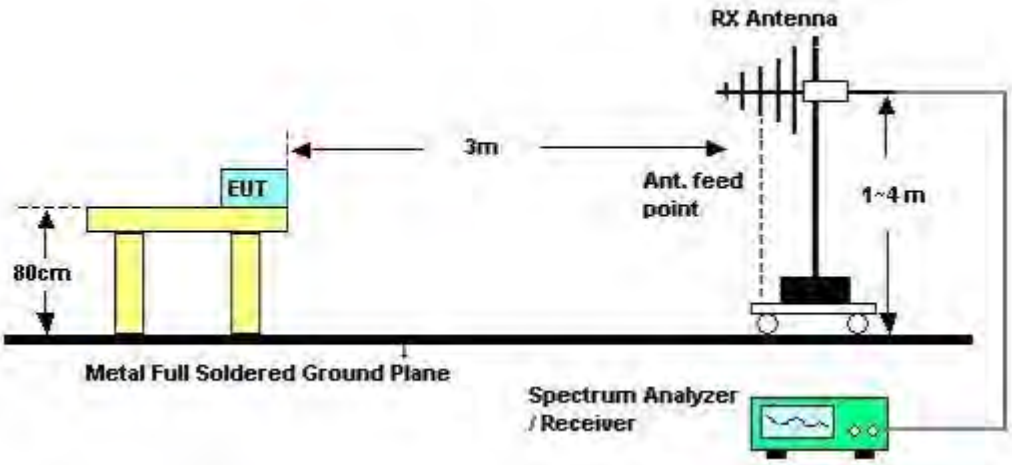


Intentional

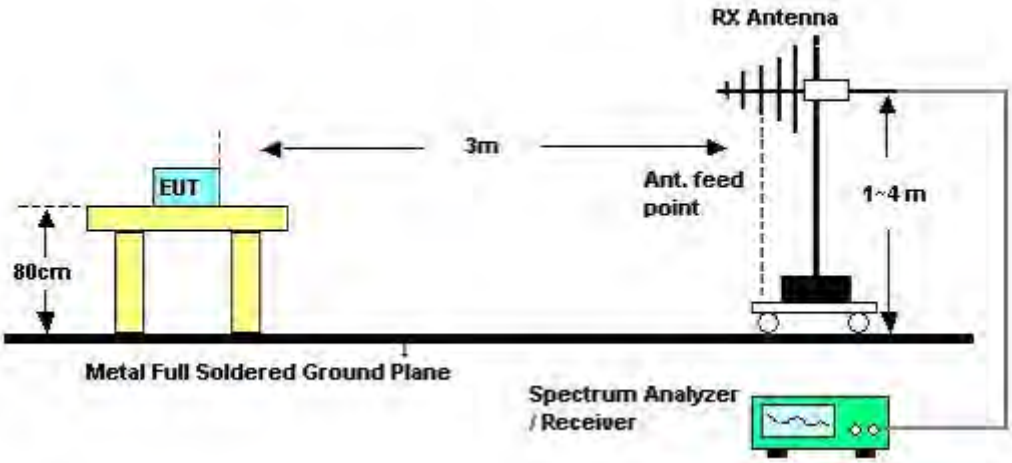


30MHz~1GHz

Unintentional

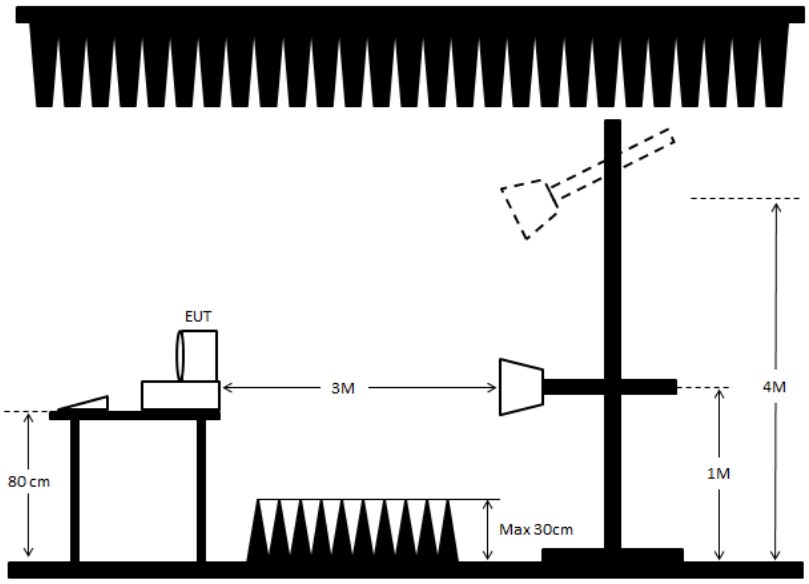


Intentional

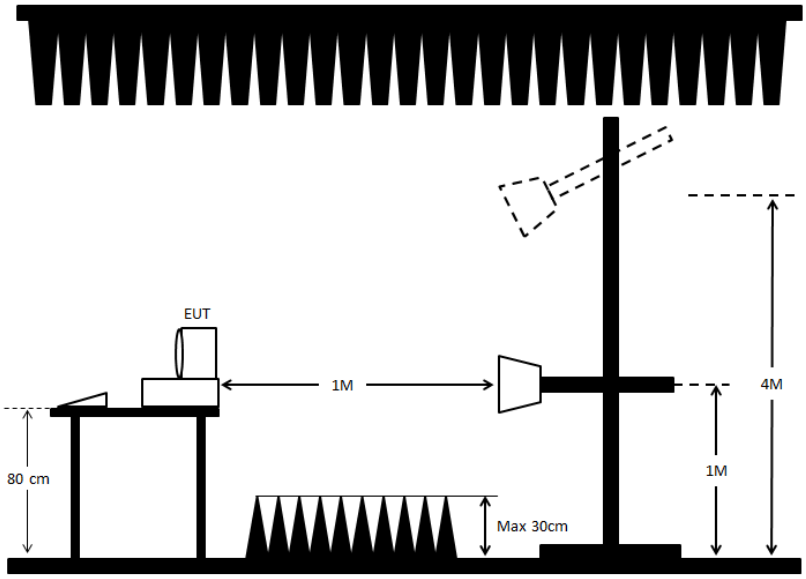


Emissions in Restricted Frequency Bands

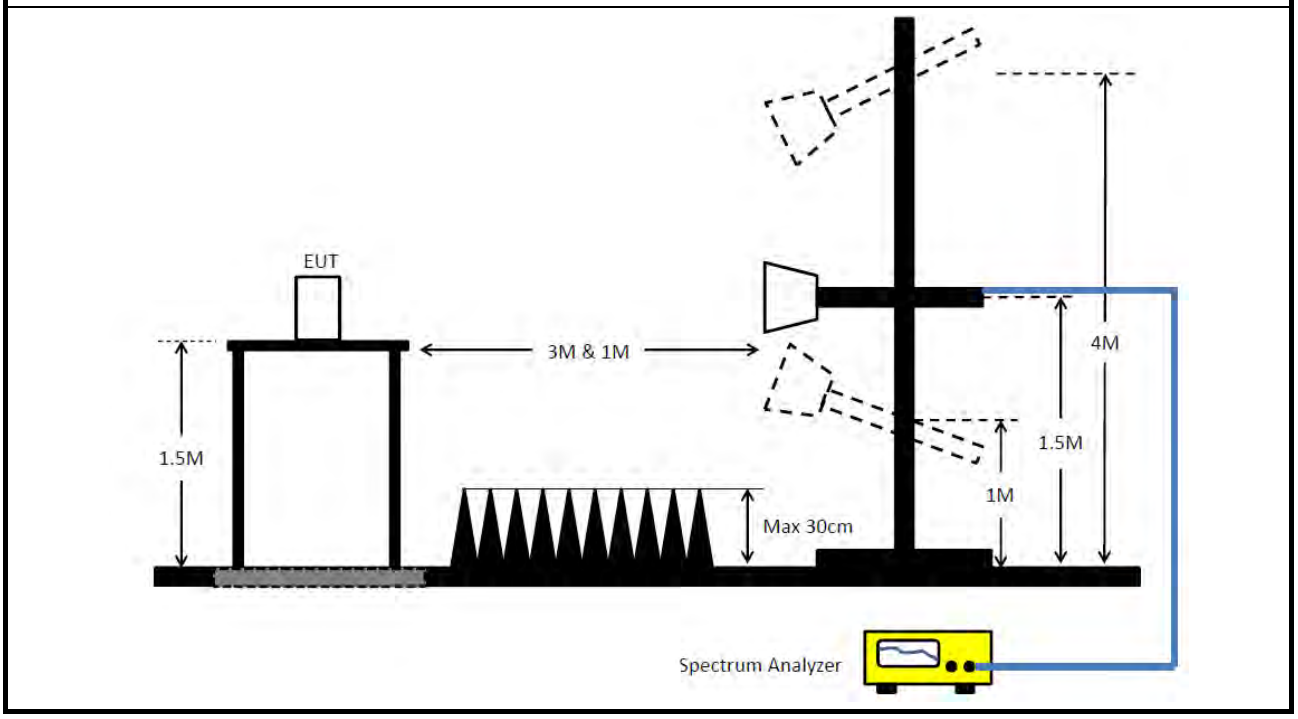
1,000~18,000 MHz / Unintentional



18,000~30,000 MHz / Unintentional



Above 1GHz / Intentional



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)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
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

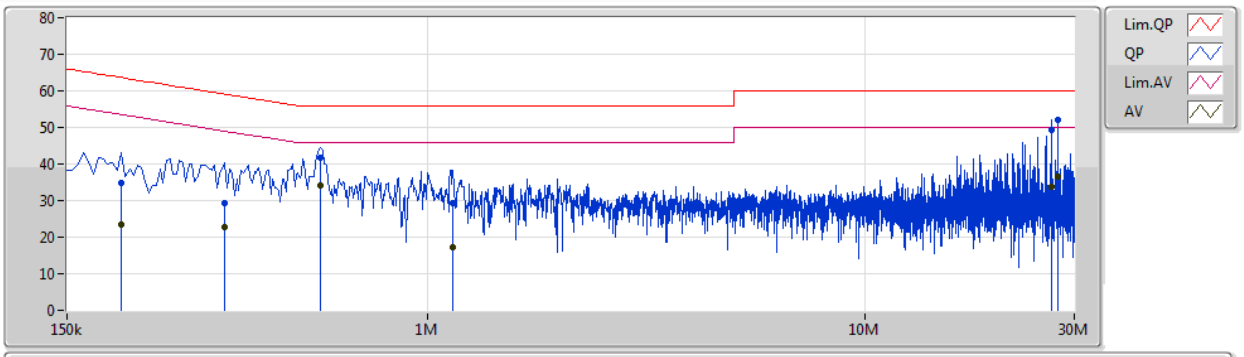
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2019	Nov. 20, 2020	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Oct. 30, 2019	Oct. 29, 2020	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 21, 2019	Oct. 20, 2020	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Bilog Antenna with 6dB Attenuator	TESE & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 28, 2019	Mar. 27, 2020	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Apr. 16, 2019	Apr. 15, 2020	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 03, 2019	Aug. 02, 2020	Radiation (03CH06-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH06-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 21, 2019	Oct. 20, 2020	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	HUBER+SUHNER	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH06-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	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. 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. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Jul. 02, 2019	Jul. 01, 2020	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 11, 2019	Sep. 10, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH02-CB)

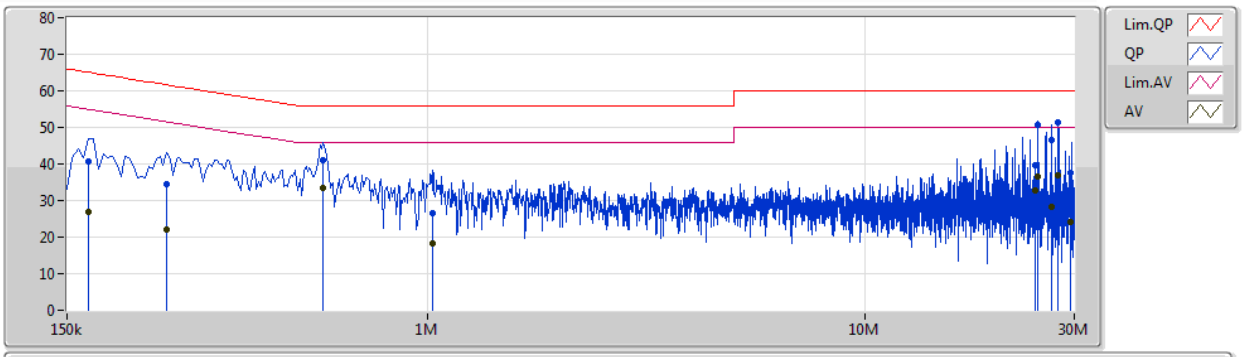
Note: Calibration Interval of instruments listed above is one year.
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	QP	27.586M	52.03	60.00	-7.97	10.74	Line



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	199.5k	34.93	63.63	-28.70	10.22	Line	-	24.71	0.05	0.07	10.10
AV	199.5k	23.35	53.63	-30.28	10.22	Line	-	13.13	0.05	0.07	10.10
QP	343.5k	29.35	59.12	-29.77	10.24	Line	-	19.11	0.06	0.08	10.10
AV	343.5k	22.73	49.12	-26.39	10.24	Line	-	12.49	0.06	0.08	10.10
QP	568.5k	41.86	56.00	-14.14	10.26	Line	-	31.60	0.06	0.10	10.10
AV	568.5k	34.17	46.00	-11.83	10.26	Line	-	23.91	0.06	0.10	10.10
QP	1.14M	29.14	56.00	-26.86	10.30	Line	-	18.84	0.07	0.13	10.10
AV	1.14M	17.13	46.00	-28.87	10.30	Line	-	6.83	0.07	0.13	10.10
QP	26.636M	49.24	60.00	-10.76	10.70	Line	-	38.54	0.35	0.23	10.12
AV	26.636M	33.83	50.00	-16.17	10.70	Line	-	23.13	0.35	0.23	10.12
QP	27.586M	52.03	60.00	-7.97	10.74	Line	"Worst"	41.29	0.37	0.24	10.13
AV	27.586M	36.67	50.00	-13.33	10.74	Line	-	25.93	0.37	0.24	10.13



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	40.64	65.06	-24.42	10.19	Neutral	-	30.45	0.03	0.06	10.10
AV	168k	26.83	55.06	-28.23	10.19	Neutral	-	16.64	0.03	0.06	10.10
QP	253.5k	34.32	61.64	-27.32	10.20	Neutral	-	24.12	0.03	0.07	10.10
AV	253.5k	21.98	51.64	-29.66	10.20	Neutral	-	11.78	0.03	0.07	10.10
QP	577.5k	41.20	56.00	-14.80	10.24	Neutral	-	30.96	0.04	0.10	10.10
AV	577.5k	33.30	46.00	-12.70	10.24	Neutral	-	23.06	0.04	0.10	10.10
QP	1.028M	26.54	56.00	-29.46	10.26	Neutral	-	16.28	0.04	0.12	10.10
AV	1.028M	18.19	46.00	-27.81	10.26	Neutral	-	7.93	0.04	0.12	10.10
QP	24.35M	39.65	60.00	-20.35	10.62	Neutral	-	29.03	0.27	0.23	10.12
AV	24.35M	32.63	50.00	-17.37	10.62	Neutral	-	22.01	0.27	0.23	10.12
QP	24.743M	50.65	60.00	-9.35	10.62	Neutral	-	40.03	0.27	0.23	10.12
AV	24.743M	36.42	50.00	-13.58	10.62	Neutral	-	25.80	0.27	0.23	10.12
QP	26.65M	46.59	60.00	-13.41	10.64	Neutral	-	35.95	0.29	0.23	10.12
AV	26.65M	28.22	50.00	-21.78	10.64	Neutral	-	17.58	0.29	0.23	10.12
QP	27.596M	51.35	60.00	-8.65	10.67	Neutral	"Worst"	40.68	0.30	0.24	10.13
AV	27.596M	36.76	50.00	-13.24	10.67	Neutral	-	26.09	0.30	0.24	10.13
QP	29.496M	37.54	60.00	-22.46	10.69	Neutral	-	26.85	0.32	0.24	10.13
AV	29.496M	24.24	50.00	-25.76	10.69	Neutral	-	13.55	0.32	0.24	10.13

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	15.767M	15M8G1D	10.05M	14.718M
802.11g_Nss1,(6Mbps)_2TX	15.1M	21.889M	21M9D1D	15.075M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	15.675M	23.088M	23M1D1D	15.05M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	15.1M	17.591M	17M6D1D	12.6M	17.491M

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

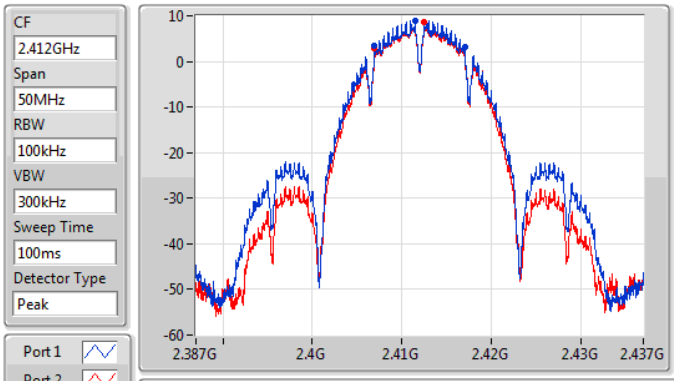
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.075M	15.142M	10.05M	14.718M
2437MHz	Pass	500k	10.075M	15.767M	10.075M	15.117M
2462MHz	Pass	500k	10.075M	15.742M	10.075M	15.317M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	16.467M	15.075M	16.367M
2437MHz	Pass	500k	15.1M	21.889M	15.1M	20.615M
2462MHz	Pass	500k	15.1M	16.442M	15.075M	16.367M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	17.591M	15.05M	17.541M
2437MHz	Pass	500k	15.1M	23.088M	15.05M	22.589M
2462MHz	Pass	500k	15.125M	17.566M	15.675M	17.591M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	15.1M	17.541M	14.15M	17.541M
2437MHz	Pass	500k	14.6M	17.591M	12.6M	17.591M
2452MHz	Pass	500k	15M	17.491M	15.05M	17.491M

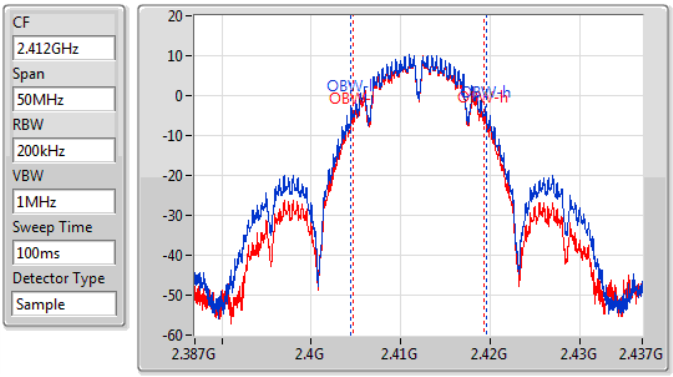
Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

02/12/2019



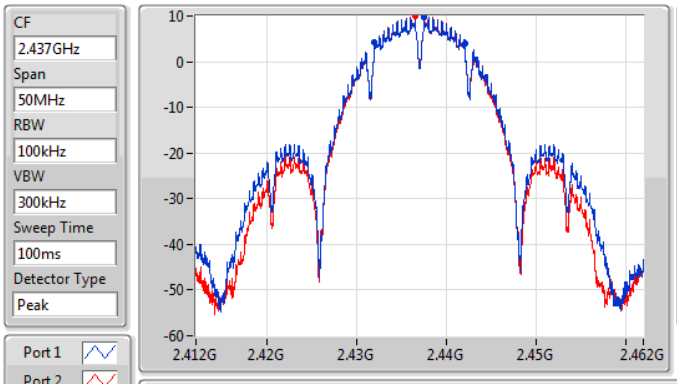


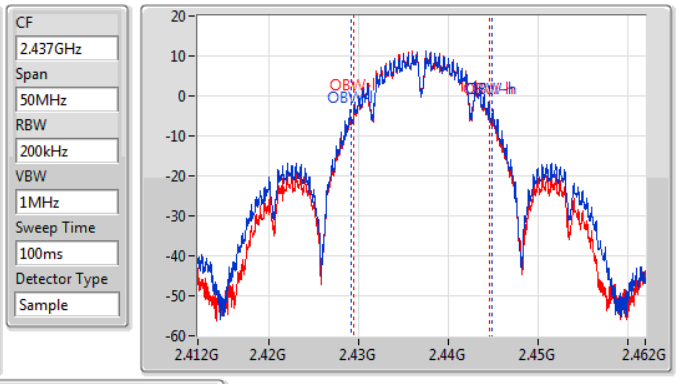
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.406975G	2.41705G	15.142M	2.404429G	2.419571G	500k	1
10.05M	2.406975G	2.417025G	14.718M	2.404629G	2.419346G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

02/12/2019





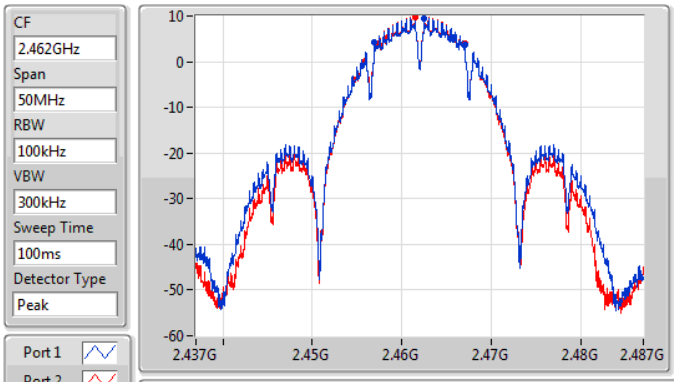
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.431975G	2.44205G	15.767M	2.429154G	2.444921G	500k	1
10.075M	2.431975G	2.44205G	15.117M	2.429429G	2.444546G	500k	2

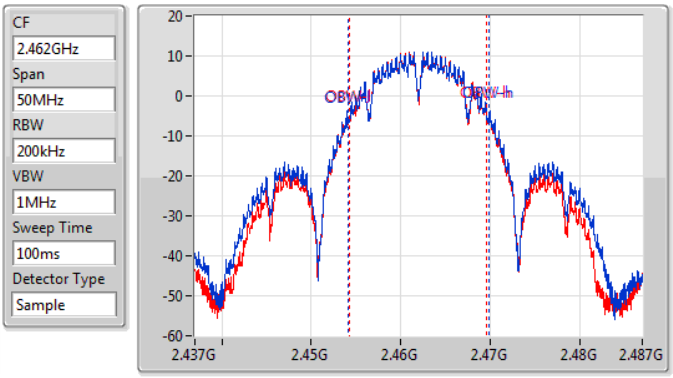
802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

02/12/2019





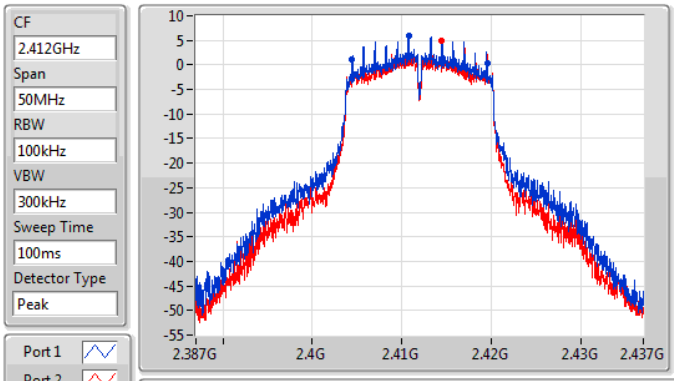
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.456975G	2.46705G	15.742M	2.454154G	2.469896G	500k	1
10.075M	2.456975G	2.46705G	15.317M	2.454304G	2.469621G	500k	2

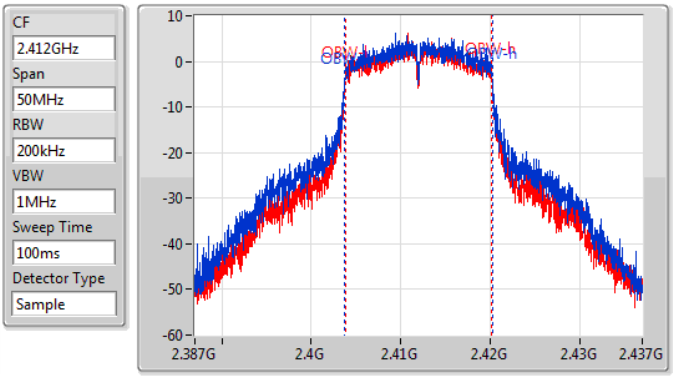
802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

02/12/2019





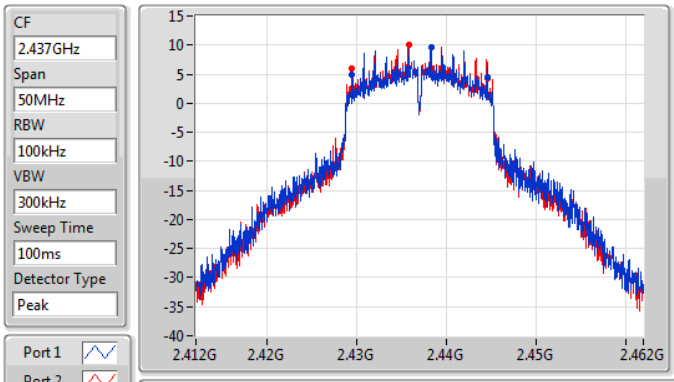
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.404475G	2.41955G	16.467M	2.403754G	2.420221G	500k	1
15.075M	2.404475G	2.41955G	16.367M	2.403804G	2.420171G	500k	2

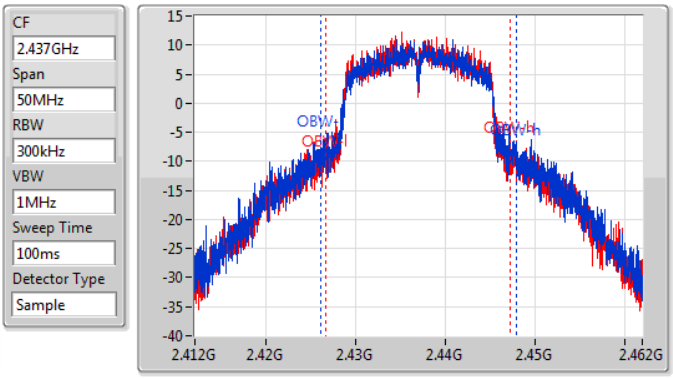
802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

02/12/2019





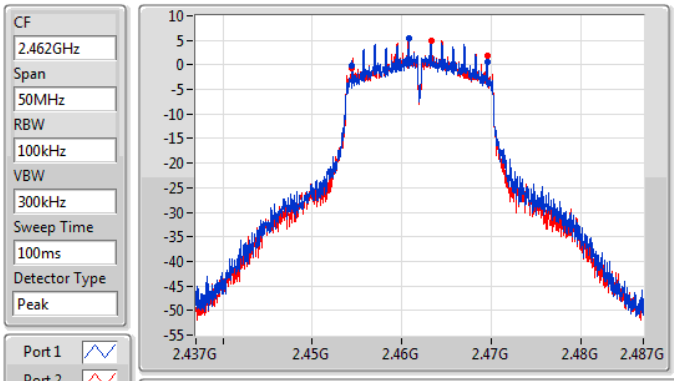
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.429475G	2.444575G	21.889M	2.426055G	2.447945G	500k	1
15.1M	2.429475G	2.444575G	20.615M	2.42668G	2.447295G	500k	2

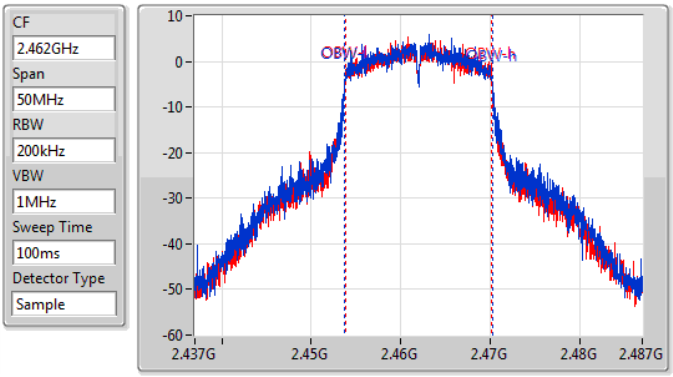
802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

02/12/2019





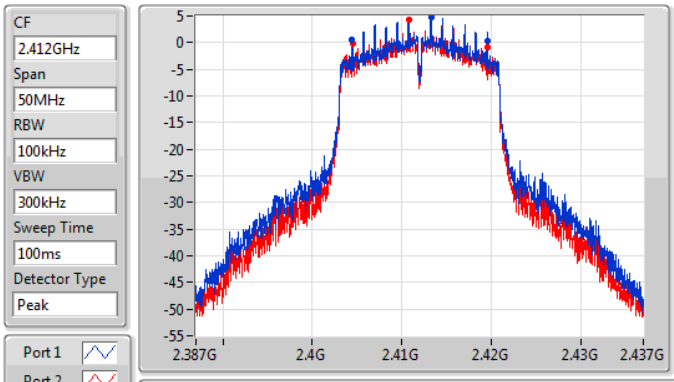
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.45445G	2.46955G	16.442M	2.453779G	2.470221G	500k	1
15.075M	2.45445G	2.469525G	16.367M	2.453804G	2.470171G	500k	2

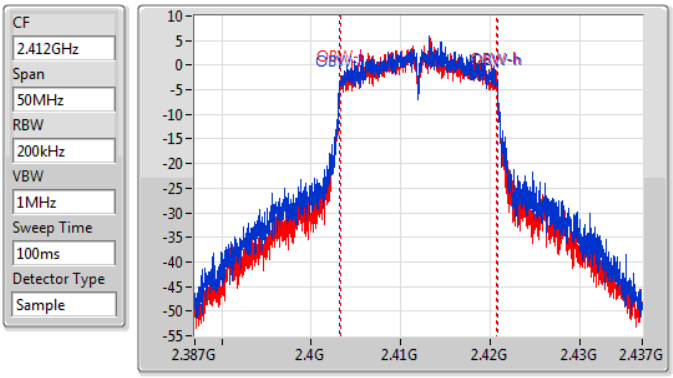
802.11n HT20_Nss1,(MCS0)_2TX

EBW

2412MHz

02/12/2019





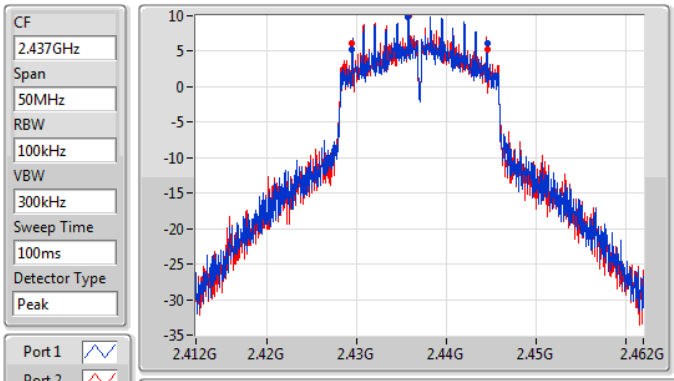
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.404475G	2.41955G	17.591M	2.403204G	2.420796G	500k	1
15.05M	2.4045G	2.41955G	17.541M	2.403229G	2.420771G	500k	2

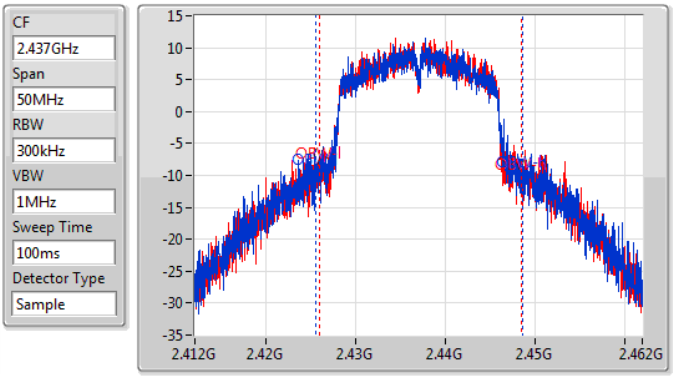
802.11n HT20_Nss1,(MCS0)_2TX

EBW

2437MHz

02/12/2019





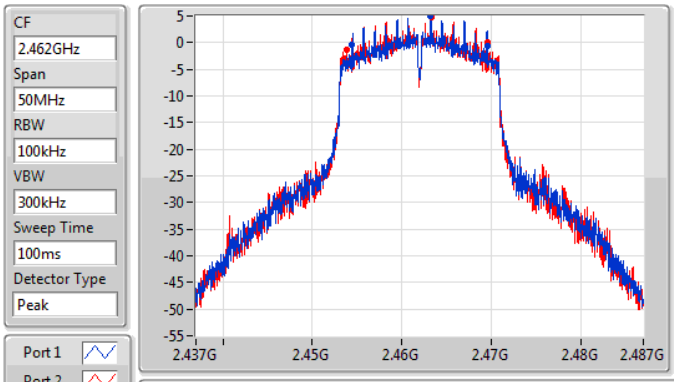
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.42945G	2.44455G	23.088M	2.425531G	2.448619G	500k	1
15.05M	2.429475G	2.444525G	22.589M	2.425931G	2.448519G	500k	2

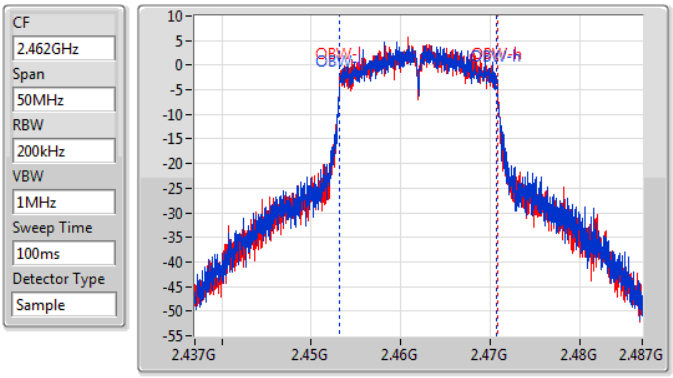
802.11n HT20_Nss1,(MCS0)_2TX

EBW

2462MHz

02/12/2019





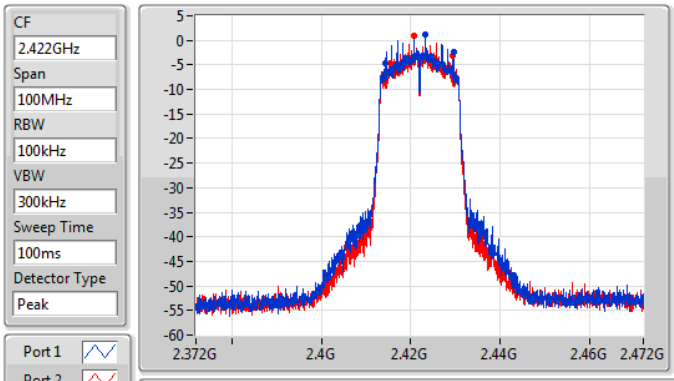
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.125M	2.45445G	2.469575G	17.566M	2.453204G	2.470771G	500k	1
15.675M	2.45385G	2.469525G	17.591M	2.453204G	2.470796G	500k	2

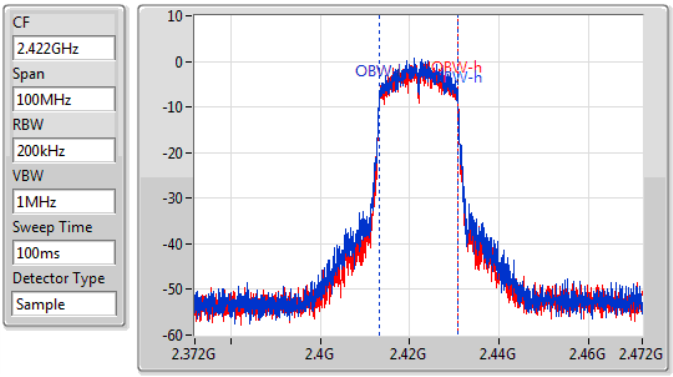
802.11n HT40_Nss1,(MCS0)_2TX

EBW

2422MHz

02/12/2019





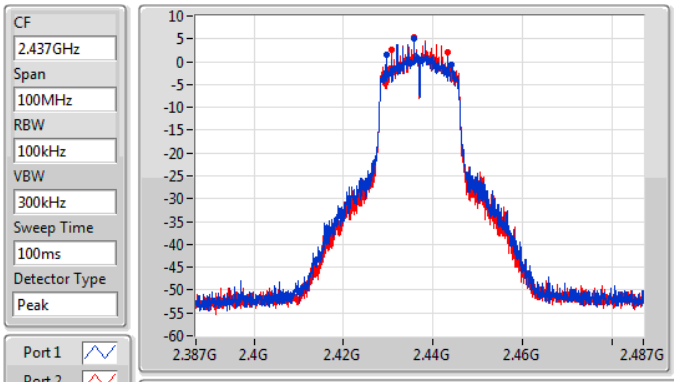
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.41445G	2.42955G	17.541M	2.413204G	2.430746G	500k	1
14.15M	2.41535G	2.4295G	17.541M	2.413204G	2.430746G	500k	2

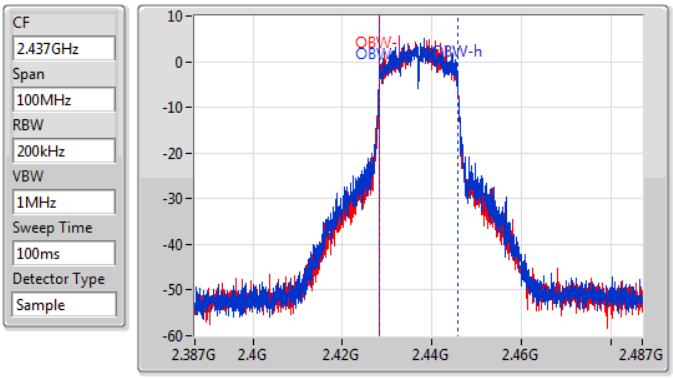
802.11n HT40_Nss1,(MCS0)_2TX

EBW

2437MHz

02/12/2019





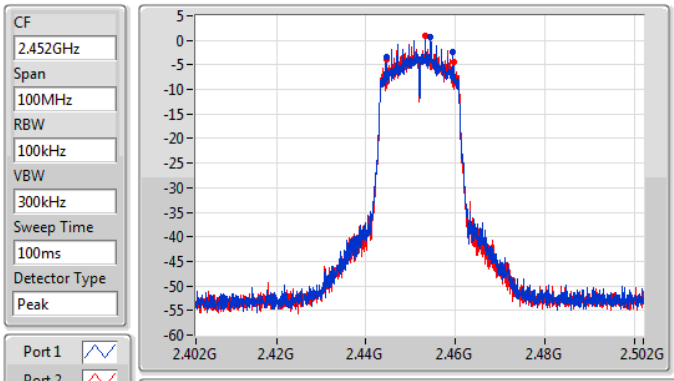
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.6M	2.4295G	2.4441G	17.591M	2.428154G	2.445746G	500k	1
12.6M	2.4307G	2.4433G	17.591M	2.428204G	2.445796G	500k	2

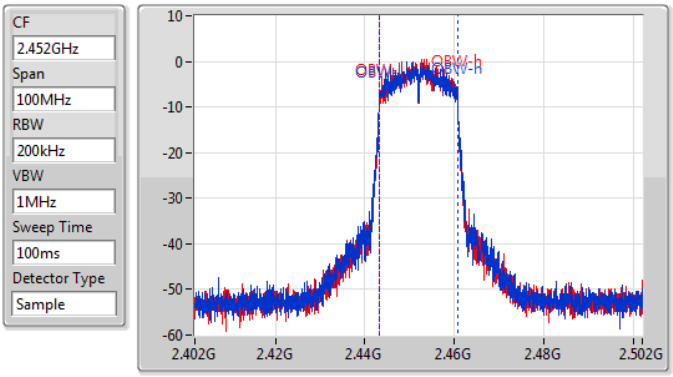
802.11n HT40_Nss1,(MCS0)_2TX

EBW

2452MHz

02/12/2019





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	2.4445G	2.4595G	17.491M	2.443204G	2.460696G	500k	1
15.05M	2.4445G	2.45955G	17.491M	2.443254G	2.460746G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.12	0.20512
802.11g_Nss1,(6Mbps)_2TX	22.86	0.19320
802.11n HT20_Nss1,(MCS0)_2TX	22.91	0.19543
802.11n HT40_Nss1,(MCS0)_2TX	17.97	0.06266

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.95	19.34	18.74	22.06	30.00
2437MHz	Pass	1.95	20.19	20.03	23.12	30.00
2462MHz	Pass	1.95	20.01	20.08	23.06	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.95	16.04	15.35	18.72	30.00
2417MHz	Pass	1.95	18.23	17.76	21.01	30.00
2437MHz	Pass	1.95	19.71	19.99	22.86	30.00
2457MHz	Pass	1.95	17.14	17.11	20.14	30.00
2462MHz	Pass	1.95	15.24	15.28	18.27	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.95	14.96	14.41	17.70	30.00
2417MHz	Pass	1.95	18.36	17.89	21.14	30.00
2437MHz	Pass	1.95	19.71	20.09	22.91	30.00
2457MHz	Pass	1.95	16.98	16.86	19.93	30.00
2462MHz	Pass	1.95	15.20	15.35	18.29	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.95	11.46	10.67	14.09	30.00
2427MHz	Pass	1.95	12.87	12.46	15.68	30.00
2437MHz	Pass	1.95	15.17	14.73	17.97	30.00
2447MHz	Pass	1.95	12.30	12.46	15.39	30.00
2452MHz	Pass	1.95	10.98	11.00	14.00	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	-8.61
802.11g_Nss1,(6Mbps)_2TX	-4.46
802.11n HT20_Nss1,(MCS0)_2TX	-3.51
802.11n HT40_Nss1,(MCS0)_2TX	-8.36

RBW=3 kHz.

Result

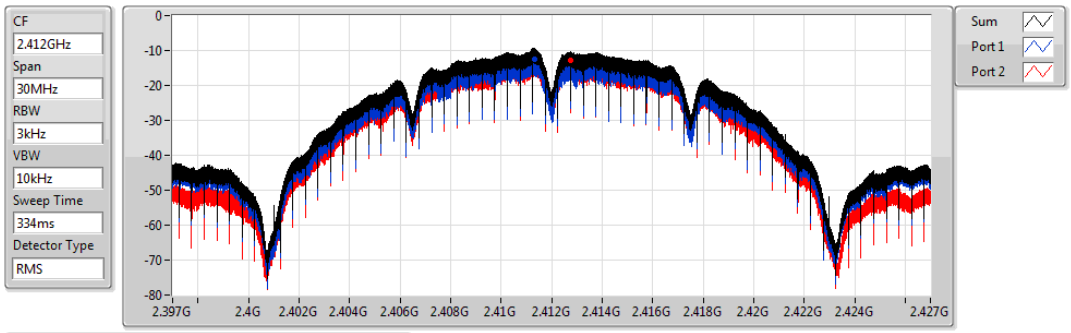
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.96	-12.47	-12.73	-9.85	8.00
2437MHz	Pass	4.96	-11.54	-11.32	-8.61	8.00
2462MHz	Pass	4.96	-11.84	-11.34	-8.72	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.96	-10.00	-11.74	-8.97	8.00
2437MHz	Pass	4.96	-7.19	-6.56	-4.46	8.00
2462MHz	Pass	4.96	-11.05	-11.21	-9.37	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.96	-10.79	-11.49	-9.26	8.00
2437MHz	Pass	4.96	-7.14	-5.76	-3.51	8.00
2462MHz	Pass	4.96	-11.56	-11.71	-8.83	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.96	-14.58	-15.77	-12.97	8.00
2437MHz	Pass	4.96	-10.44	-10.69	-8.36	8.00
2452MHz	Pass	4.96	-15.67	-15.21	-13.26	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

02/12/2019

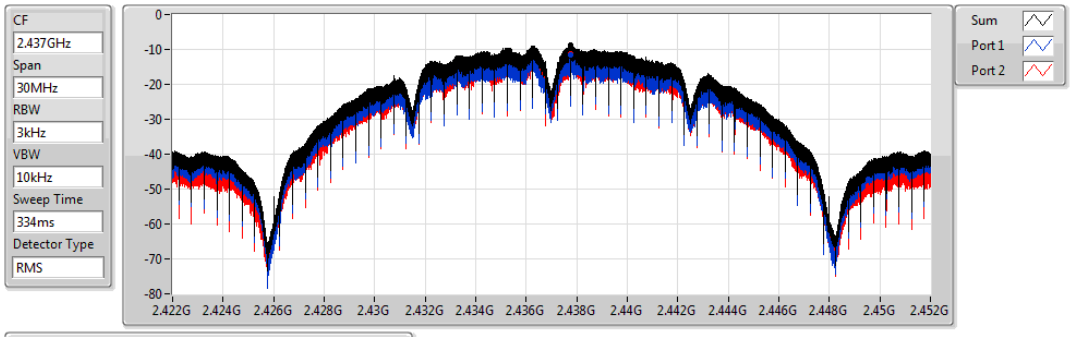


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.85	-9.85	-12.47	-12.73

802.11b_Nss1,(1Mbps)_2TX PSD

2437MHz

02/12/2019

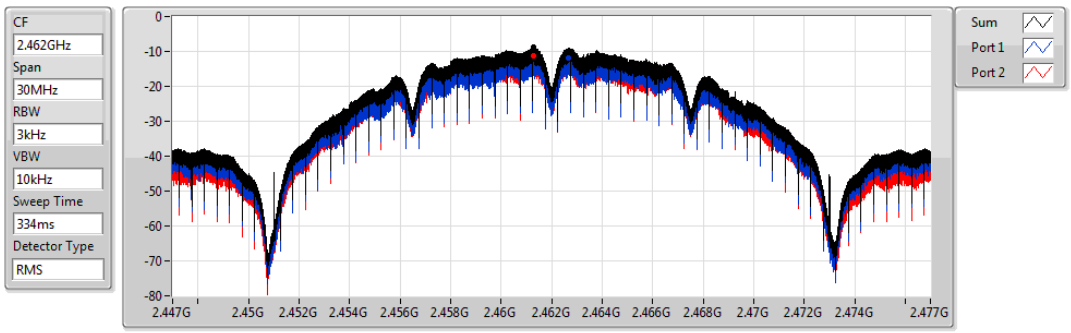


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.61	-8.61	-11.54	-11.32

802.11b_Nss1,(1Mbps)_2TX PSD

2462MHz

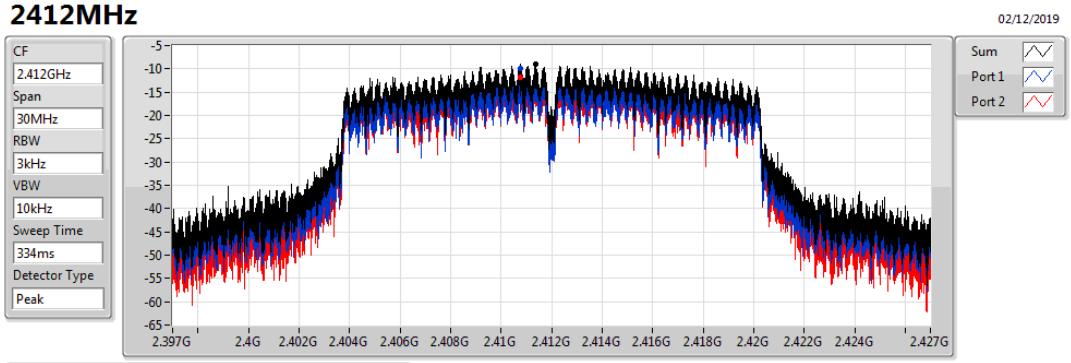
02/12/2019



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.72	-8.72	-11.84	-11.34

802.11g_Nss1,(6Mbps)_2TX PSD

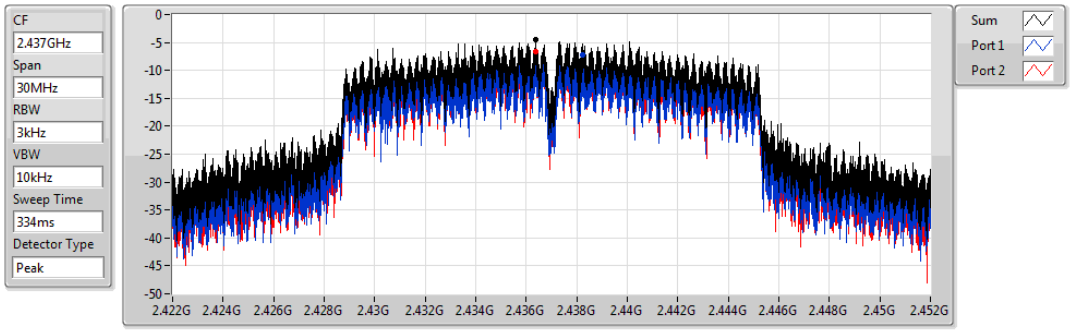
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.97	-8.97	-10.00	-11.74

802.11g_Nss1,(6Mbps)_2TX PSD

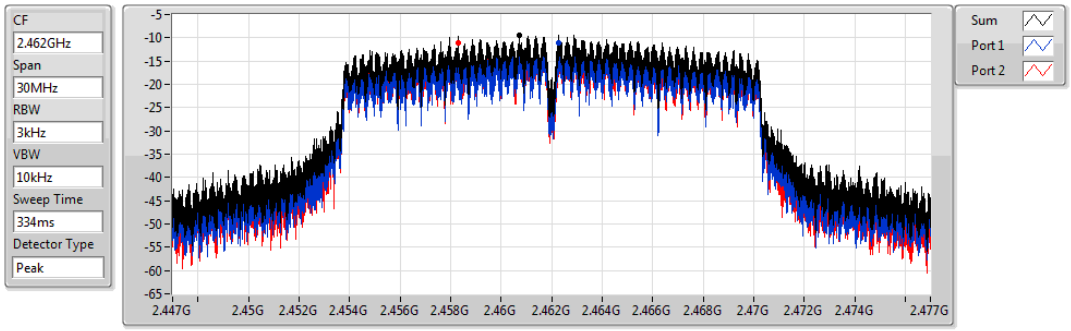
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.46	-4.46	-7.19	-6.56

802.11g_Nss1,(6Mbps)_2TX PSD

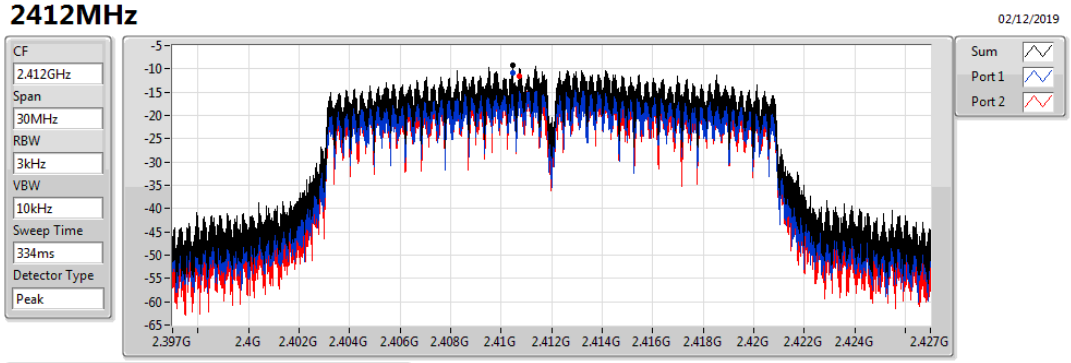
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.37	-9.37	-11.05	-11.21

802.11n HT20_Nss1,(MCS0)_2TX PSD

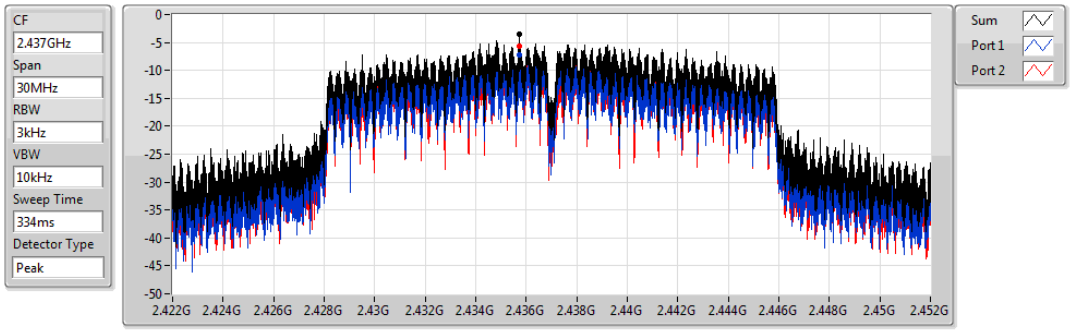
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.26	-9.26	-10.79	-11.49

802.11n HT20_Nss1,(MCS0)_2TX PSD

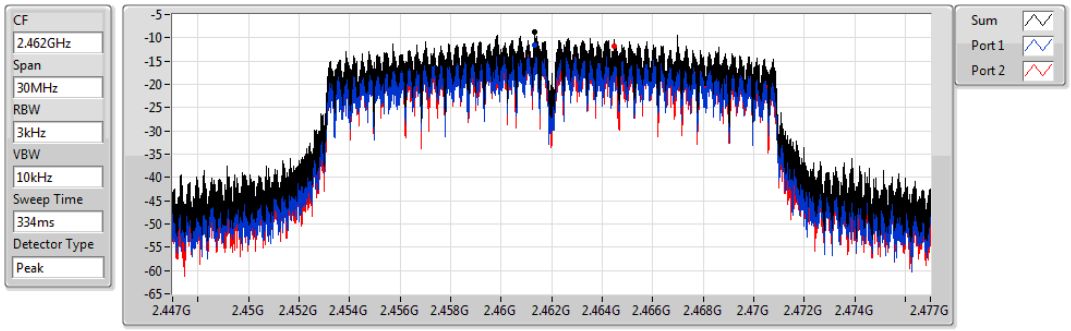
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.51	-3.51	-7.14	-5.76

802.11n HT20_Nss1,(MCS0)_2TX PSD

2462MHz

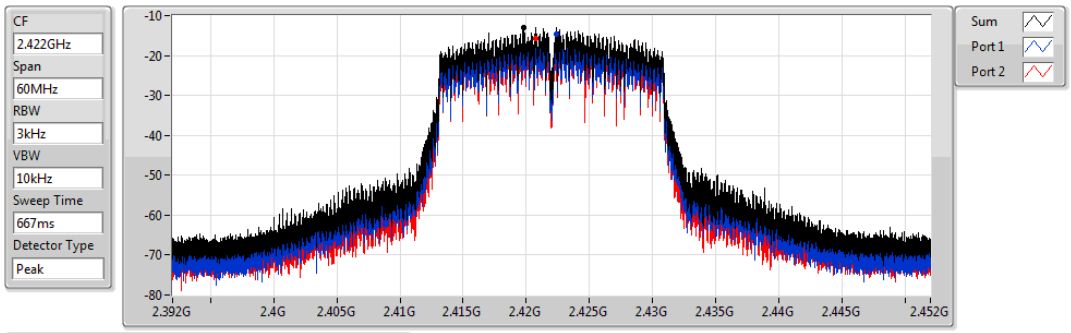


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.83	-8.83	-11.56	-11.71

802.11n HT40_Nss1,(MCS0)_2TX PSD

2422MHz

02/12/2019

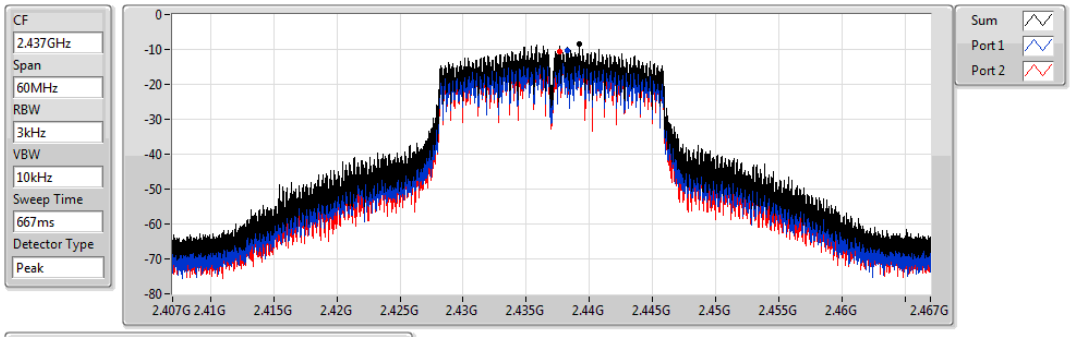


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.97	-12.97	-14.58	-15.77

802.11n HT40_Nss1,(MCS0)_2TX PSD

2437MHz

02/12/2019

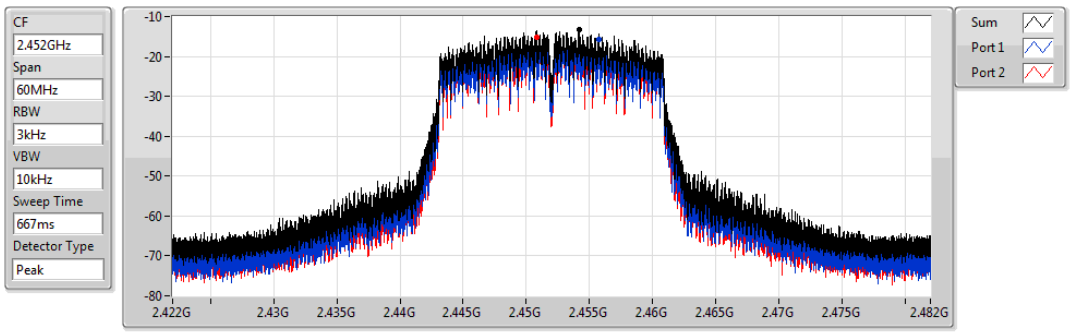


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.36	-8.36	-10.44	-10.69

802.11n HT40_Nss1,(MCS0)_2TX PSD

2452MHz

02/12/2019



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.26	-13.26	-15.67	-15.21

Summary

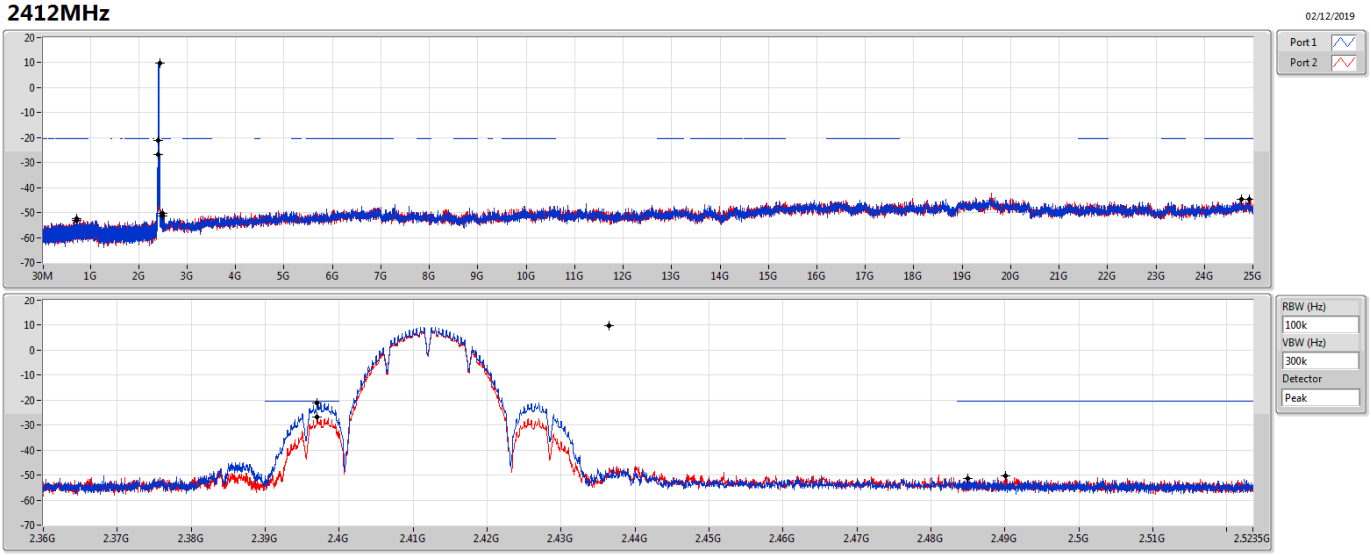
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43649G	9.67	-20.33	715.89M	-52.50	2.39702G	-21.11	2.48496G	-51.44	24.92976G	-44.82	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	9.86	-20.14	904.04M	-52.87	2.39994G	-23.58	2.49702G	-47.23	24.29761G	-44.96	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.43574G	9.73	-20.27	1.9505G	-53.28	2.3999G	-25.56	2.48826G	-47.53	16.54884G	-44.98	1
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43574G	5.45	-24.55	381.52M	-53.14	2.3974G	-49.98	2.4995G	-48.50	24.78685G	-44.32	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	9.67	-20.33	715.89M	-52.50	2.39702G	-21.11	2.48496G	-51.44	24.92976G	-44.82	1
2412MHz	Pass	2.43649G	9.67	-20.33	726.38M	-52.97	2.39702G	-26.80	2.49004G	-50.34	24.76681G	-44.85	2
2437MHz	Pass	2.43649G	9.67	-20.33	381.83M	-53.01	2.3995G	-49.03	2.489G	-49.56	17.49566G	-44.35	1
2437MHz	Pass	2.43649G	9.67	-20.33	895.89M	-53.15	2.39998G	-49.45	2.50476G	-49.59	16.34655G	-45.10	2
2462MHz	Pass	2.43649G	9.67	-20.33	764.24M	-52.26	2.39498G	-51.89	2.4875G	-42.94	16.45893G	-44.55	1
2462MHz	Pass	2.43649G	9.67	-20.33	2.30495G	-52.48	2.3972G	-51.77	2.489G	-41.82	24.94381G	-44.59	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	9.86	-20.14	904.04M	-52.87	2.39994G	-23.58	2.49702G	-47.23	24.29761G	-44.96	1
2412MHz	Pass	2.43574G	9.86	-20.14	844.63M	-52.54	2.39986G	-24.70	2.48448G	-49.76	16.63874G	-44.81	2
2437MHz	Pass	2.43574G	9.86	-20.14	2.16952G	-53.32	2.39824G	-45.96	2.48634G	-48.38	24.88762G	-44.59	1
2437MHz	Pass	2.43574G	9.86	-20.14	878.41M	-53.13	2.39916G	-45.33	2.48514G	-46.69	24.28918G	-43.82	2
2462MHz	Pass	2.43574G	9.86	-20.14	720.26M	-52.61	2.39398G	-50.14	2.48362G	-42.54	15.22272G	-44.18	1
2462MHz	Pass	2.43574G	9.86	-20.14	867.93M	-51.62	2.39662G	-50.32	2.48364G	-42.43	17.00679G	-44.36	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	9.73	-20.27	1.9505G	-53.28	2.3999G	-25.56	2.48826G	-47.53	16.54884G	-44.98	1
2412MHz	Pass	2.43574G	9.73	-20.27	683.27M	-51.90	2.39978G	-27.26	2.49402G	-50.34	23.28336G	-44.89	2
2437MHz	Pass	2.43574G	9.73	-20.27	944.82M	-52.44	2.3995G	-40.12	2.4845G	-46.65	16.60784G	-44.14	1
2437MHz	Pass	2.43574G	9.73	-20.27	872.88M	-52.34	2.39642G	-43.28	2.4861G	-46.55	24.92414G	-44.57	2
2462MHz	Pass	2.43574G	9.73	-20.27	842.01M	-52.03	2.39572G	-50.32	2.48386G	-39.16	24.91009G	-44.79	1
2462MHz	Pass	2.43574G	9.73	-20.27	552.79M	-53.32	2.3983G	-49.71	2.48354G	-39.27	17.52375G	-44.21	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43574G	5.45	-24.55	950.87M	-53.19	2.39924G	-49.40	2.48914G	-50.88	16.47133G	-44.43	1
2422MHz	Pass	2.43574G	5.45	-24.55	860.13M	-52.99	2.39908G	-49.87	2.50786G	-50.69	24.95232G	-44.48	2
2437MHz	Pass	2.43574G	5.45	-24.55	781.41M	-53.20	2.39708G	-50.19	2.49642G	-48.75	16.92286G	-44.59	1
2437MHz	Pass	2.43574G	5.45	-24.55	381.52M	-53.14	2.3974G	-49.98	2.4995G	-48.50	24.78685G	-44.32	2
2452MHz	Pass	2.43574G	5.45	-24.55	877.87M	-53.03	2.39312G	-51.18	2.48354G	-49.67	16.46011G	-45.03	1
2452MHz	Pass	2.43574G	5.45	-24.55	2.30483G	-52.71	2.395G	-51.48	2.50286G	-49.54	17.02943G	-45.25	2

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

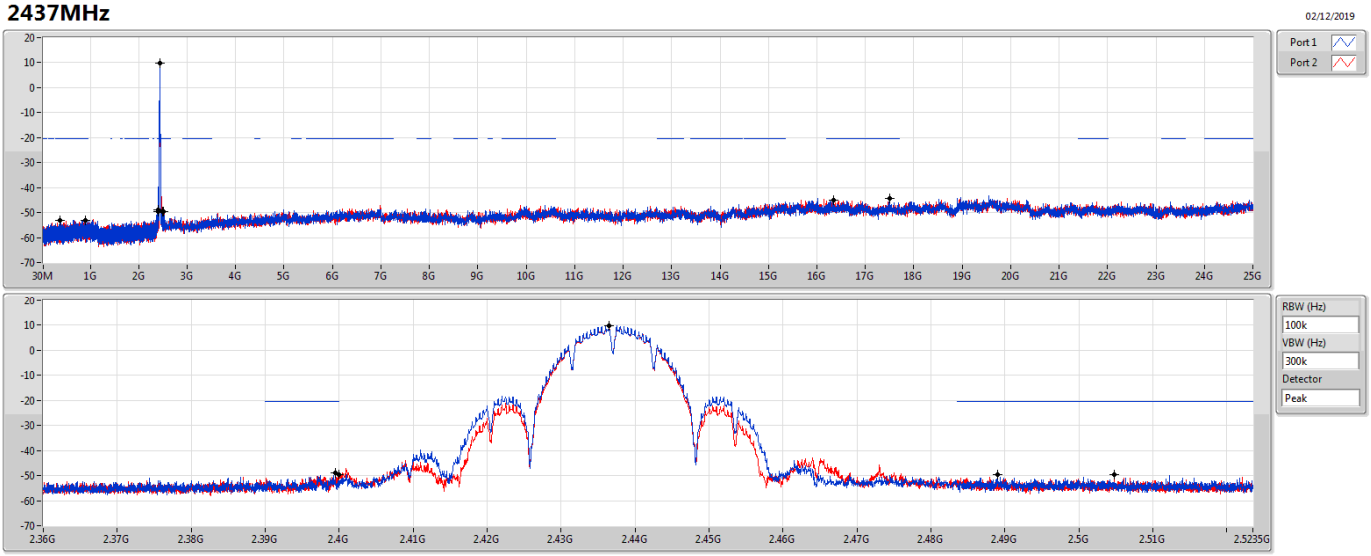
2412MHz



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	9.67	-20.33	715.89M	-52.50	2.39702G	-21.11	2.48496G	-51.44	24.92976G	-44.82	1
2.43649G	9.67	-20.33	726.38M	-52.97	2.39702G	-26.80	2.49004G	-50.34	24.76681G	-44.85	2

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

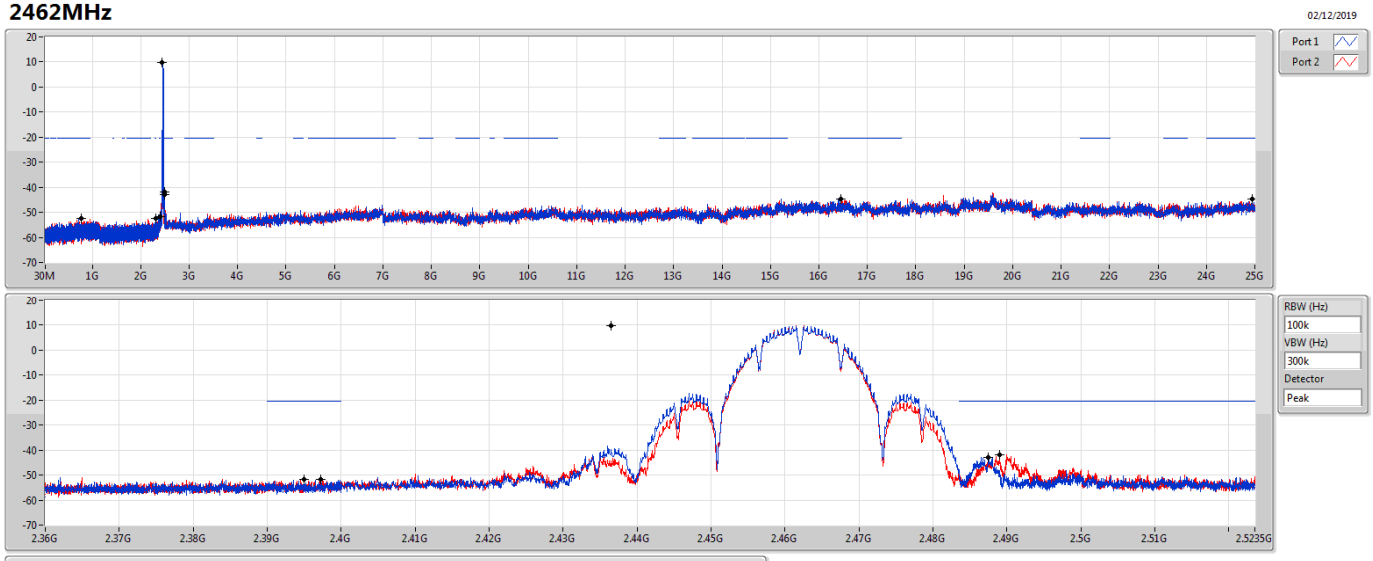
2437MHz



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	9.67	-20.33	381.83M	-53.01	2.3995G	-49.03	2.489G	-49.56	17.49566G	-44.35	1
2.43649G	9.67	-20.33	895.89M	-53.15	2.39998G	-49.45	2.50476G	-49.59	16.34655G	-45.10	2

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

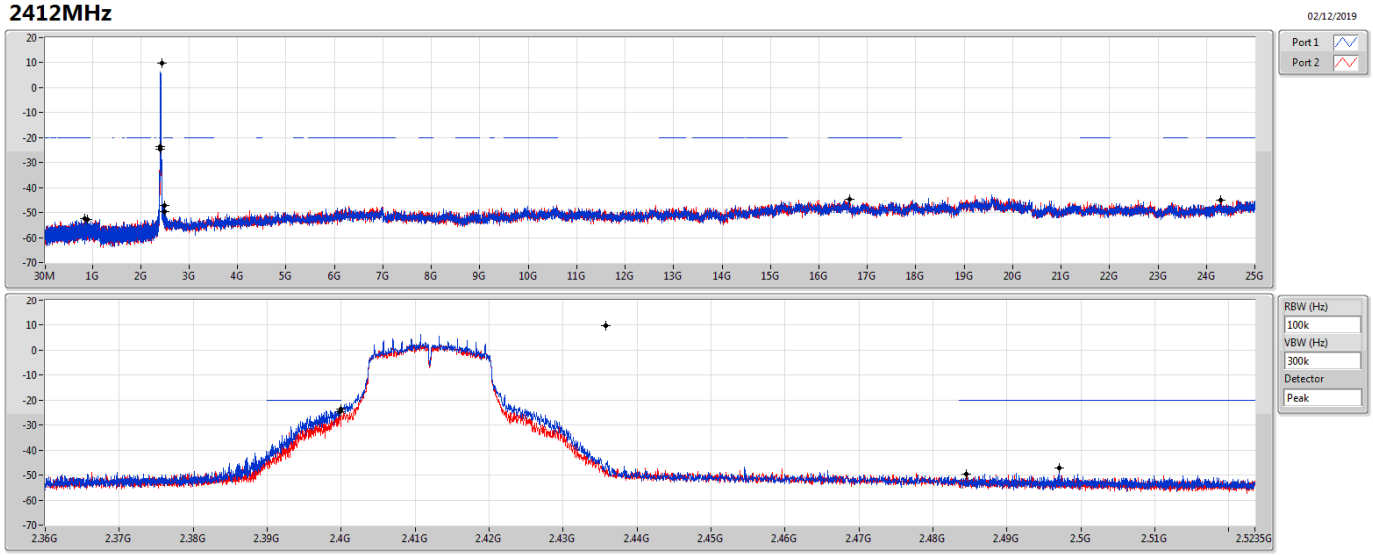
2462MHz



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	9.67	-20.33	764.24M	-52.26	2.39498G	-51.89	2.4875G	-42.94	16.45893G	-44.55	1
2.43649G	9.67	-20.33	2.30495G	-52.48	2.3972G	-51.77	2.489G	-41.82	24.94381G	-44.59	2

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

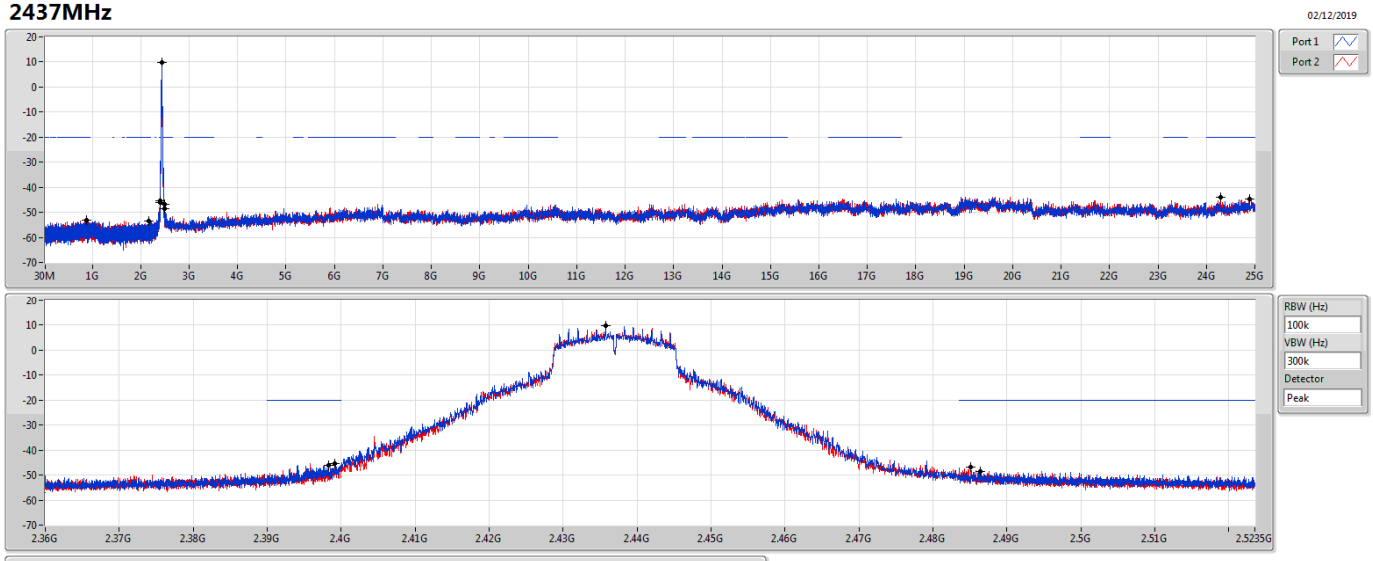
2412MHz



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	9.86	-20.14	904.04M	-52.87	2.39994G	-23.58	2.49702G	-47.23	24.29761G	-44.96	1
2.43574G	9.86	-20.14	844.63M	-52.54	2.39986G	-24.70	2.48448G	-49.76	16.63874G	-44.81	2

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

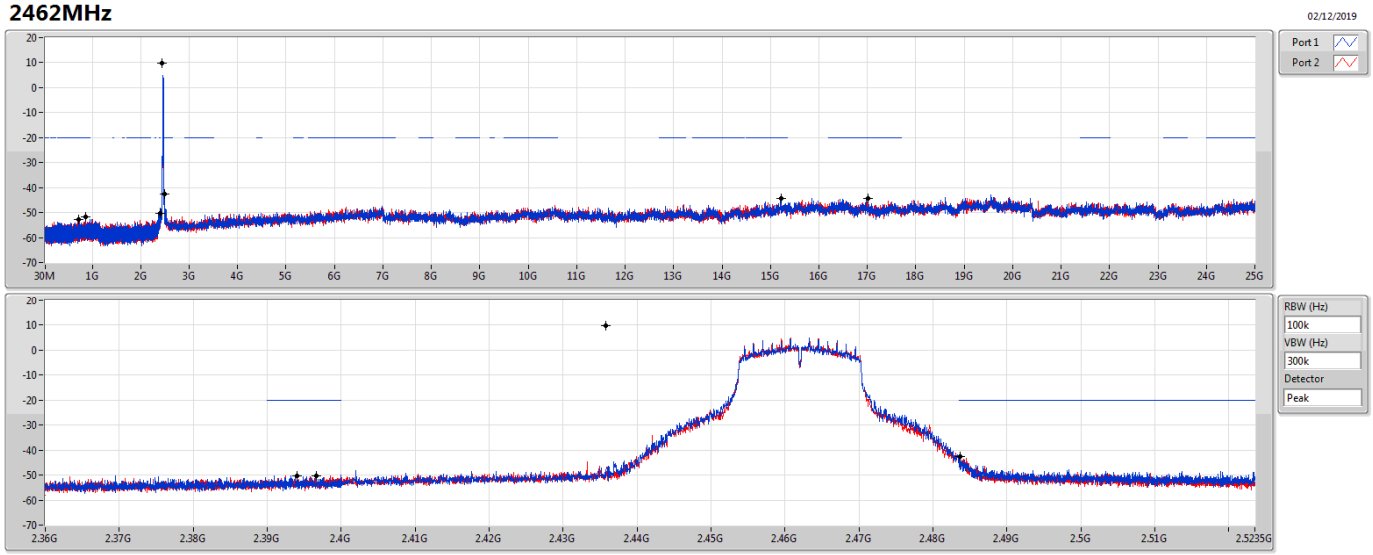
2437MHz



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	9.86	-20.14	2.16952G	-53.32	2.39824G	-45.96	2.48634G	-48.38	24.88762G	-44.59	1
2.43574G	9.86	-20.14	878.41M	-53.13	2.39916G	-45.33	2.48514G	-46.69	24.28918G	-43.82	2

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

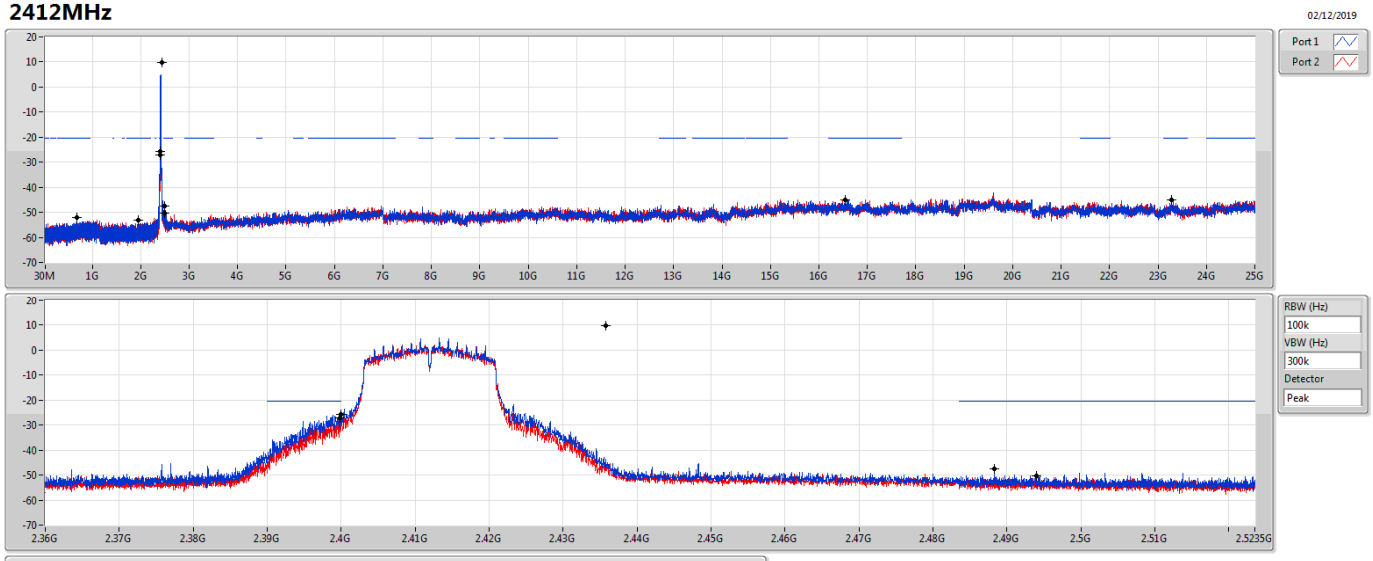
2462MHz



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	9.86	-20.14	720.26M	-52.61	2.39398G	-50.14	2.48362G	-42.54	15.22272G	-44.18	1
2.43574G	9.86	-20.14	867.93M	-51.62	2.39662G	-50.32	2.48364G	-42.43	17.00679G	-44.36	2

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

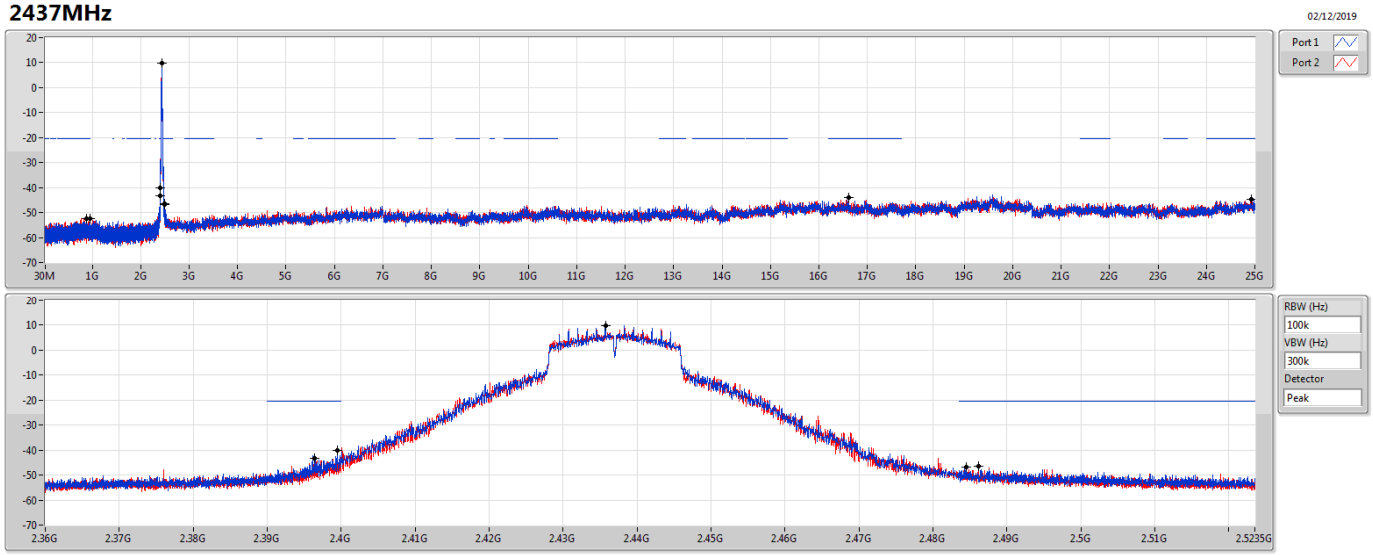
2412MHz



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	9.73	-20.27	1.9505G	-53.28	2.3999G	-25.56	2.48826G	-47.53	16.54884G	-44.98	1
2.43574G	9.73	-20.27	683.27M	-51.90	2.39978G	-27.26	2.49402G	-50.34	23.28336G	-44.89	2

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

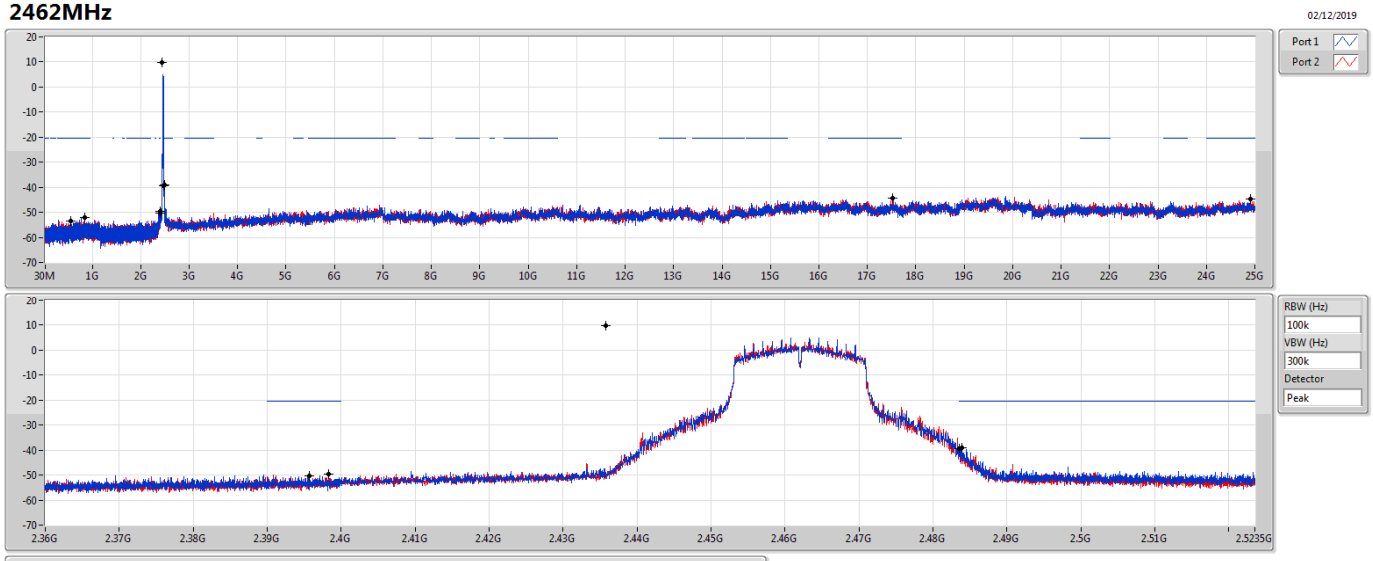
2437MHz



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	9.73	-20.27	944.82M	-52.44	2.3995G	-40.12	2.4845G	-46.65	16.60784G	-44.14	1
2.43574G	9.73	-20.27	872.88M	-52.34	2.39642G	-43.28	2.4861G	-46.55	24.92414G	-44.57	2

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

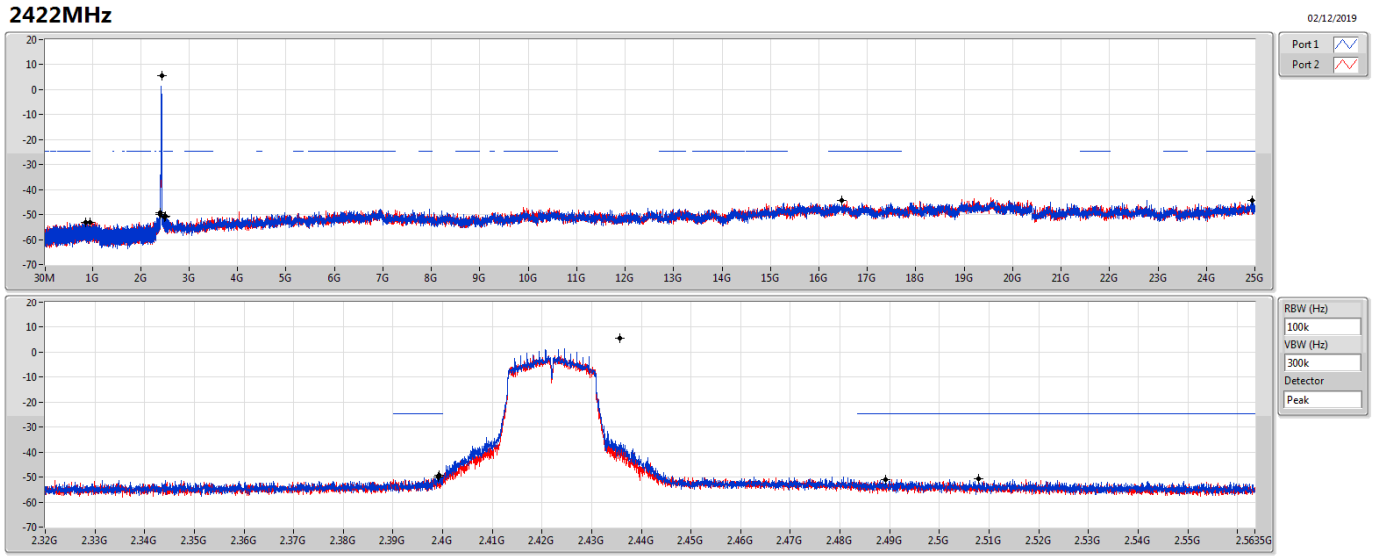
2462MHz



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	9.73	-20.27	842.01M	-52.03	2.39572G	-50.32	2.48386G	-39.16	24.91009G	-44.79	1
2.43574G	9.73	-20.27	552.79M	-53.32	2.3983G	-49.71	2.48354G	-39.27	17.52375G	-44.21	2

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

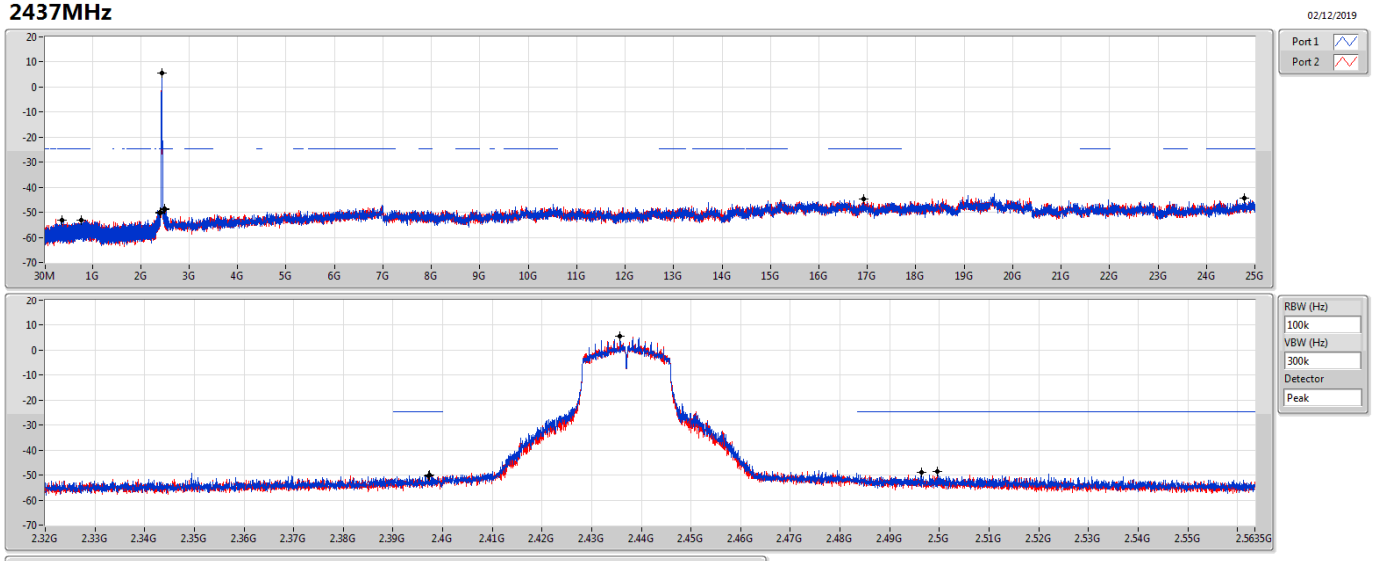
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	5.45	-24.55	950.87M	-53.19	2.39924G	-49.40	2.48914G	-50.88	16.47133G	-44.43	1
2.43574G	5.45	-24.55	860.13M	-52.99	2.39908G	-49.87	2.50786G	-50.69	24.95232G	-44.48	2

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

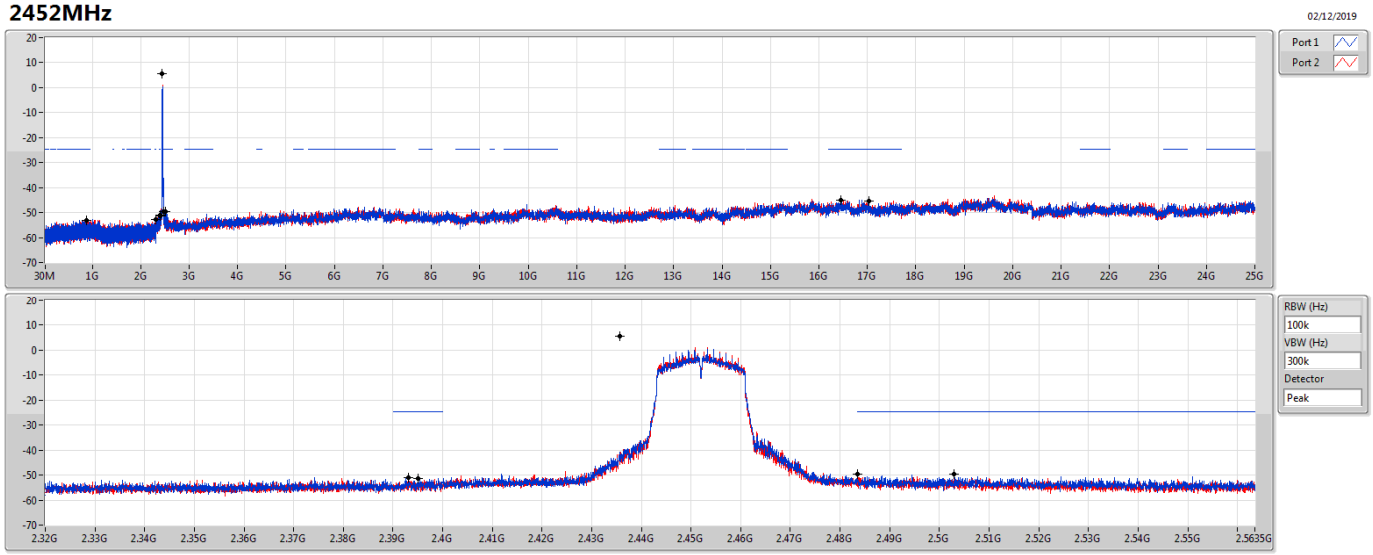
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	5.45	-24.55	781.41M	-53.20	2.39708G	-50.19	2.49642G	-48.75	16.92286G	-44.59	1
2.43574G	5.45	-24.55	381.52M	-53.14	2.3974G	-49.98	2.4995G	-48.50	24.78685G	-44.32	2

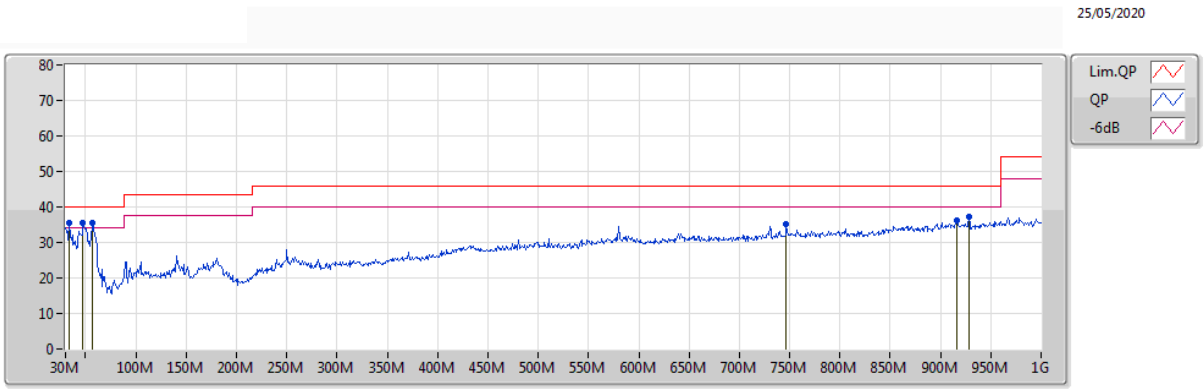
802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	5.45	-24.55	877.87M	-53.03	2.39312G	-51.18	2.48354G	-49.67	16.46011G	-45.03	1
2.43574G	5.45	-24.55	2.30483G	-52.71	2.395G	-51.48	2.50286G	-49.54	17.02943G	-45.25	2

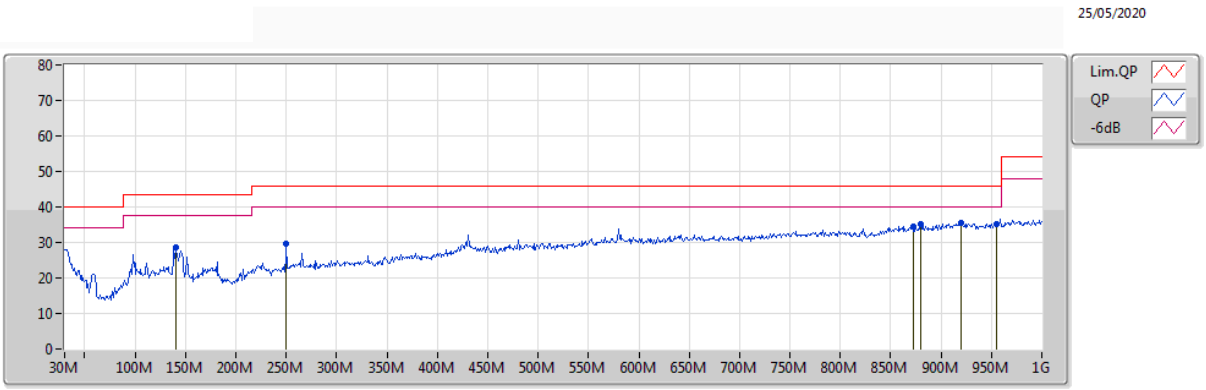
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Intentional – CTX		



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	33.88M	35.39	40.00	-4.61	-8.75	3	Vertical	124	1.00	-	44.14	22.11	1.58	32.44
PK	47.46M	35.54	40.00	-4.46	-16.10	3	Vertical	0	1.00	-	51.64	15.12	1.49	32.71
PK	57.16M	35.67	40.00	-4.33	-18.68	3	Vertical	68	1.00	"Worst"	54.35	12.37	1.54	32.59
PK	746.83M	35.24	46.00	-10.76	-0.73	3	Vertical	8	1.00	-	35.97	25.57	5.78	32.08
PK	916.58M	36.23	46.00	-9.77	1.56	3	Vertical	64	3.00	-	34.67	26.59	6.60	31.63
PK	928.22M	37.07	46.00	-8.93	1.61	3	Vertical	237	1.25	-	35.46	26.56	6.60	31.55

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.)

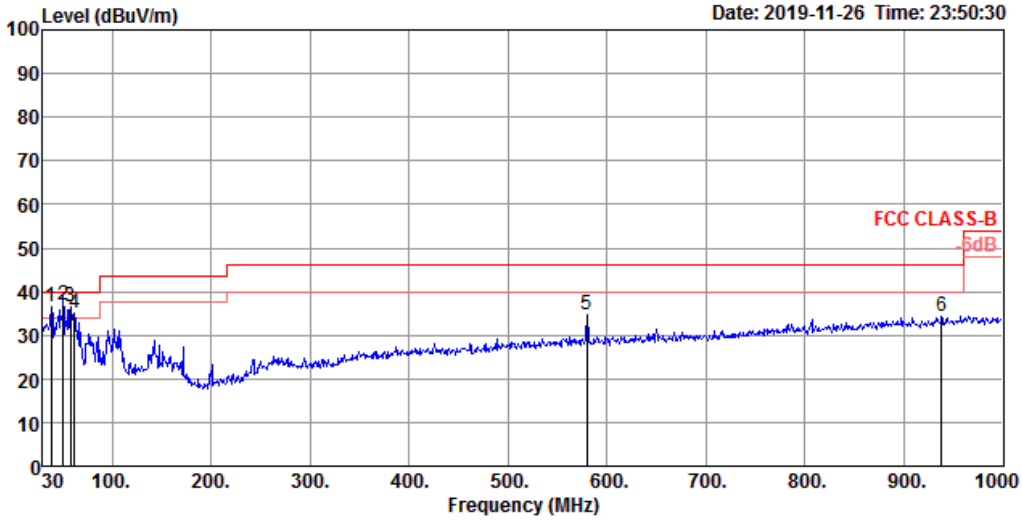
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Intentional – CTX		



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	140.58M	28.69	43.50	-14.81	-12.94	3	Horizontal	89	2.00	-	41.63	17.07	2.41	32.42
PK	250.19M	29.76	46.00	-16.24	-10.74	3	Horizontal	266	1.00	-	40.50	18.43	3.20	32.37
PK	871.96M	34.64	46.00	-11.36	0.94	3	Horizontal	1	2.00	-	33.70	26.35	6.32	31.73
PK	879.72M	35.24	46.00	-10.76	1.05	3	Horizontal	356	1.25	-	34.19	26.38	6.40	31.73
PK	919.49M	35.64	46.00	-10.36	1.54	3	Horizontal	175	2.00	"Worst"	34.10	26.55	6.60	31.61
PK	955.38M	35.17	46.00	-10.83	2.12	3	Horizontal	210	1.25	-	33.05	26.87	6.60	31.35

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.)

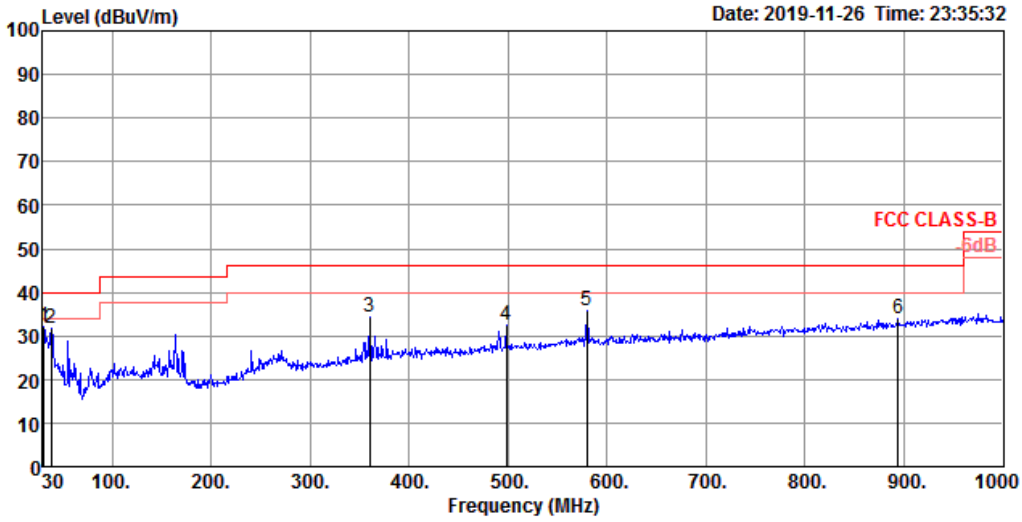
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Unintentional – CRX		



	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	36.36	40.00	-3.64	46.54	0.81	20.51	31.50	100	360	Peak	VERTICAL
2	50.37	36.89	40.00	-3.11	52.99	0.92	14.72	31.74	100	0	QP	VERTICAL
3	58.13	36.50	40.00	-3.50	54.38	0.97	12.98	31.83	100	7	Peak	VERTICAL
4	62.01	34.91	40.00	-5.09	53.17	1.00	12.60	31.86	200	338	Peak	VERTICAL
5	579.99	34.73	46.00	-11.27	39.03	3.23	24.79	32.32	100	180	Peak	VERTICAL
6	937.92	34.28	46.00	-11.72	34.38	4.10	27.94	32.14	150	225	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.)

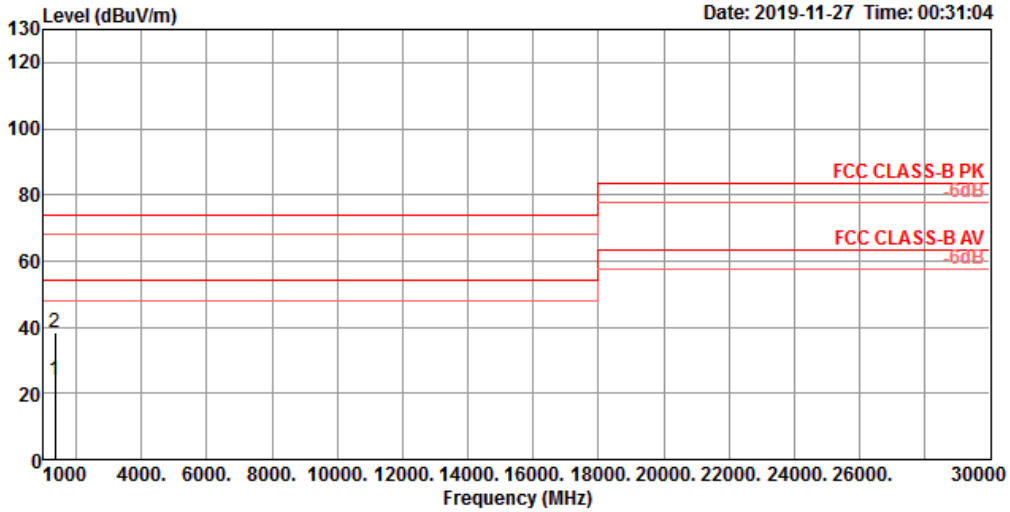
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Unintentional – CRX		



	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	30.97	32.08	40.00	-7.92	37.84	0.69	25.11	31.56	300	350	Peak	HORIZONTAL
2	38.73	31.64	40.00	-8.36	41.82	0.81	20.51	31.50	300	0	Peak	HORIZONTAL
3	359.80	34.26	46.00	-11.74	42.49	2.48	21.44	32.15	300	103	Peak	HORIZONTAL
4	498.51	32.39	46.00	-13.61	38.17	2.92	23.77	32.47	300	118	Peak	HORIZONTAL
5	579.99	35.64	46.00	-10.36	39.94	3.23	24.79	32.32	150	163	Peak	HORIZONTAL
6	894.27	33.83	46.00	-12.17	34.54	4.05	27.65	32.41	300	171	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.)

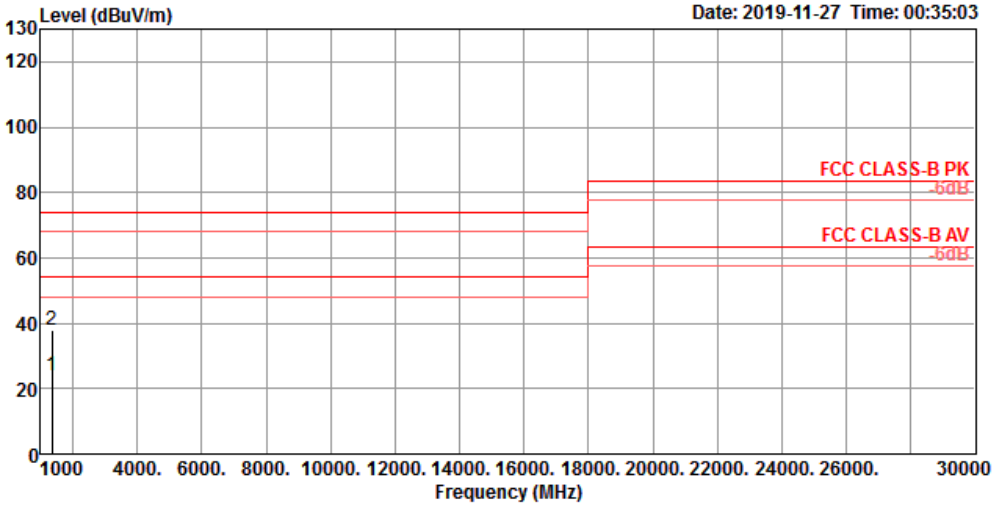
RSE above 1GHz Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Unintentional – CRX		



	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	1353.00	23.82	54.00	-30.18	31.62	2.92	26.18	36.90	100	51	Average	VERTICAL
2	1353.96	38.25	74.00	-35.75	46.05	2.92	26.18	36.90	100	51	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 above 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Unintentional – CRX		



	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	1353.13	24.16	54.00	-29.84	31.96	2.92	26.18	36.90	106	100	Average	HORIZONTAL
2	1353.34	38.05	74.00	-35.95	45.85	2.92	26.18	36.90	106	100	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.)

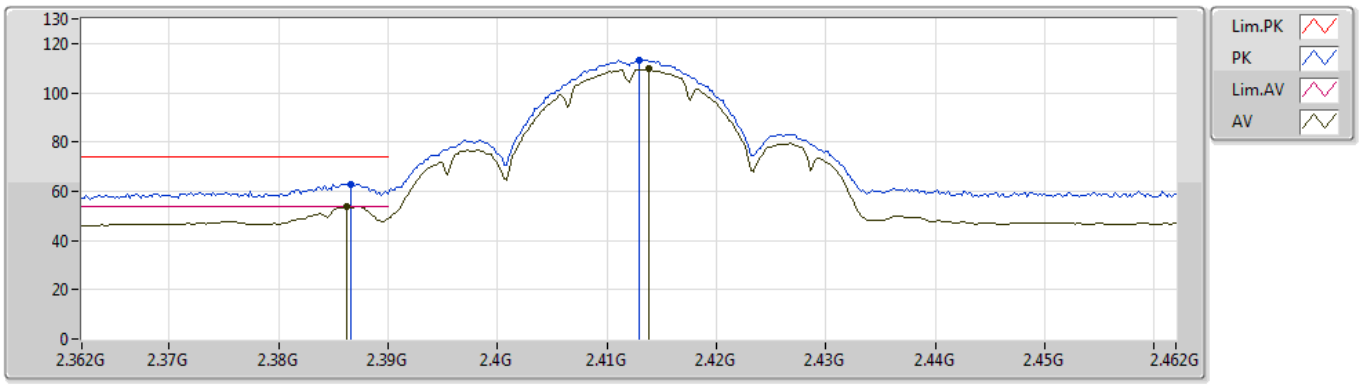
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.39G	53.97	54.00	-0.03	31.20	3	Vertical	121	1.49	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/11/2019



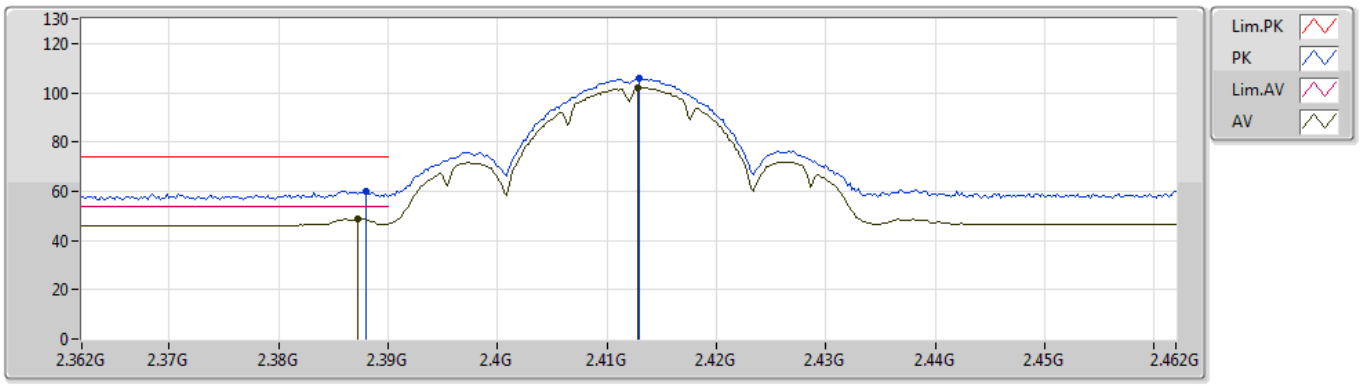
EUT Y_2TX
Setting 21
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3866G	62.91	74.00	-11.09	31.20	3	Vertical	130	1.48	-	31.71
AV	2.3862G	53.96	54.00	-0.04	31.20	3	Vertical	130	1.48	-	22.76
PK	2.413G	113.46	Inf	-Inf	31.26	3	Vertical	130	1.48	-	82.20
AV	2.4138G	109.67	Inf	-Inf	31.26	3	Vertical	130	1.48	-	78.41

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/11/2019



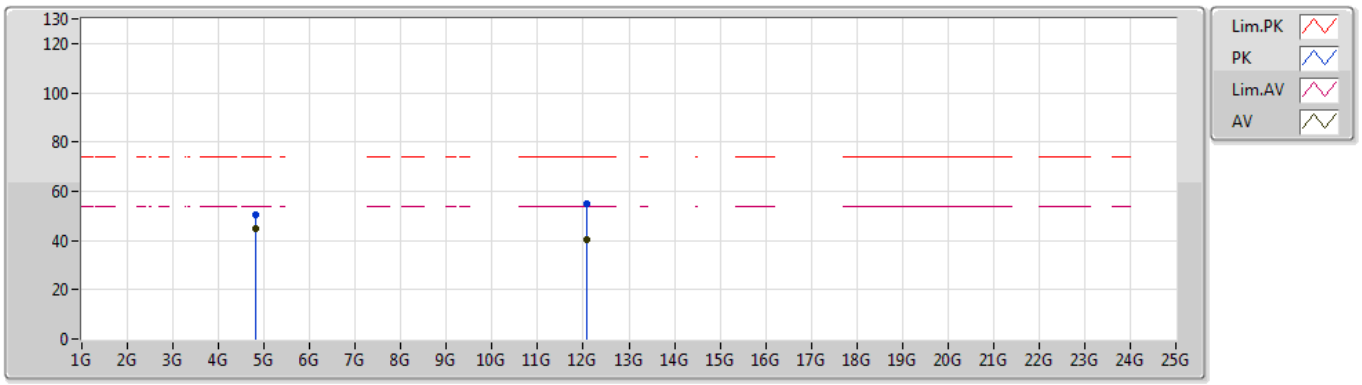
EUT Y_2TX
Setting 21
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.388G	59.83	74.00	-14.17	31.20	3	Horizontal	127	1.69	-	28.63
AV	2.3872G	48.74	54.00	-5.26	31.20	3	Horizontal	127	1.69	-	17.54
PK	2.413G	105.96	Inf	-Inf	31.26	3	Horizontal	127	1.69	-	74.70
AV	2.4128G	101.98	Inf	-Inf	31.26	3	Horizontal	127	1.69	-	70.72

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/11/2019



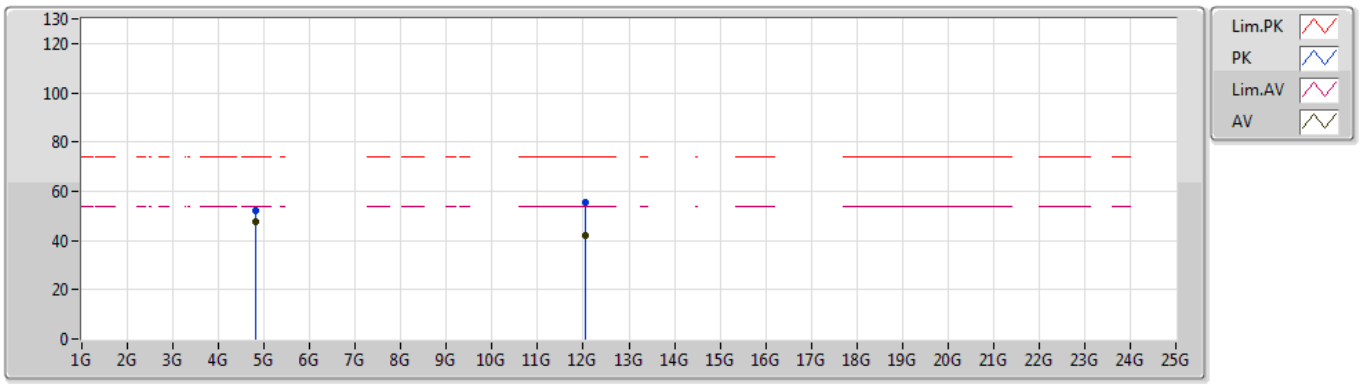
EUT Y_2TX
Setting 21
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.82406G	50.34	74.00	-23.66	7.17	3	Vertical	66	1.52	-	43.17
AV	4.824G	44.82	54.00	-9.18	7.17	3	Vertical	66	1.52	-	37.65
PK	12.06258G	54.91	74.00	-19.09	15.57	3	Vertical	110	1.49	-	39.34
AV	12.0648G	40.40	54.00	-13.60	15.57	3	Vertical	110	1.49	-	24.83

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

27/11/2019



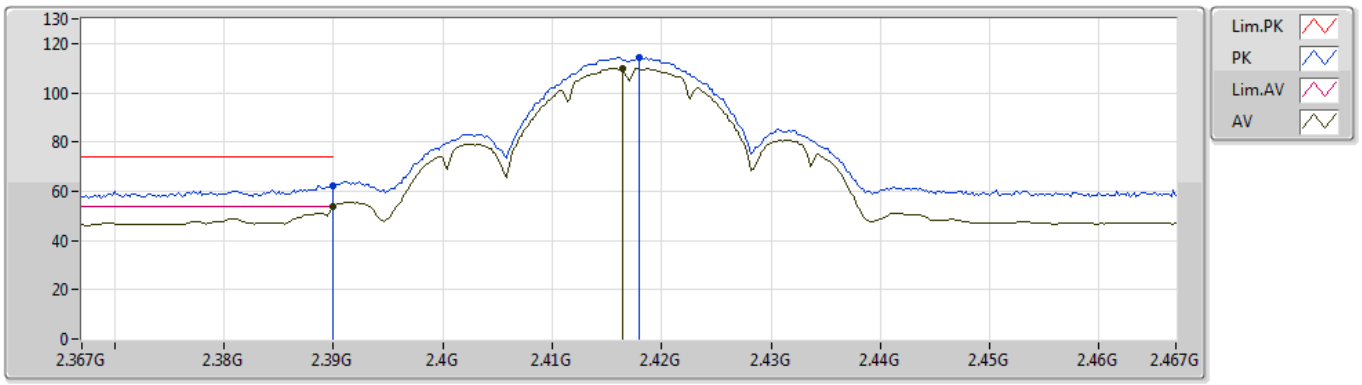
EUT Y_2TX
Setting 21
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.82402G	52.05	74.00	-21.95	7.17	3	Horizontal	105	1.49	-	44.88
AV	4.824G	47.58	54.00	-6.42	7.17	3	Horizontal	105	1.49	-	40.41
PK	12.05997G	55.67	74.00	-18.33	15.57	3	Horizontal	80	1.49	-	40.10
AV	12.0602G	42.08	54.00	-11.92	15.57	3	Horizontal	80	1.49	-	26.51

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

27/11/2019



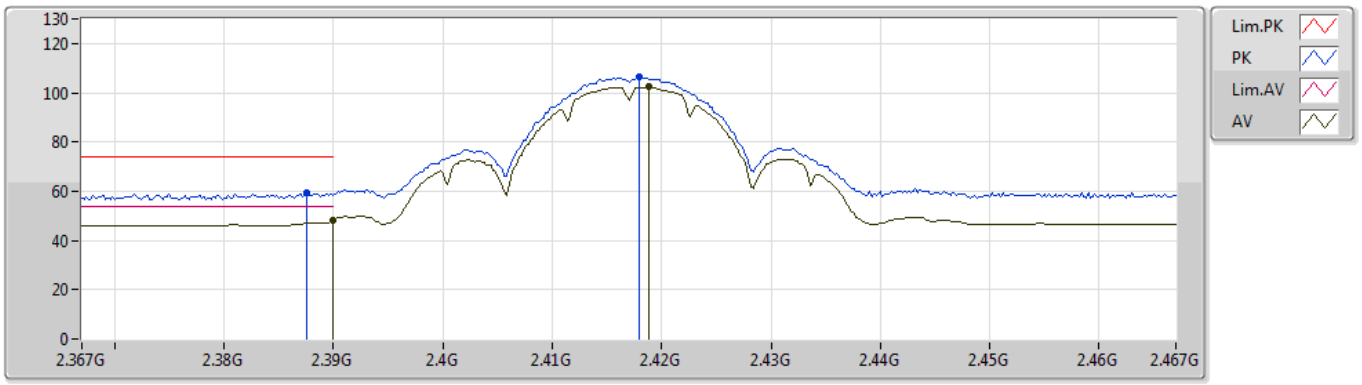
EUT Y_2TX
Setting 22
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.39G	62.24	74.00	-11.76	31.20	3	Vertical	121	1.49	-	31.04
AV	2.39G	53.97	54.00	-0.03	31.20	3	Vertical	121	1.49	-	22.77
PK	2.418G	114.38	Inf	-Inf	31.27	3	Vertical	121	1.49	-	83.11
AV	2.4164G	110.10	Inf	-Inf	31.27	3	Vertical	121	1.49	-	78.83

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

27/11/2019



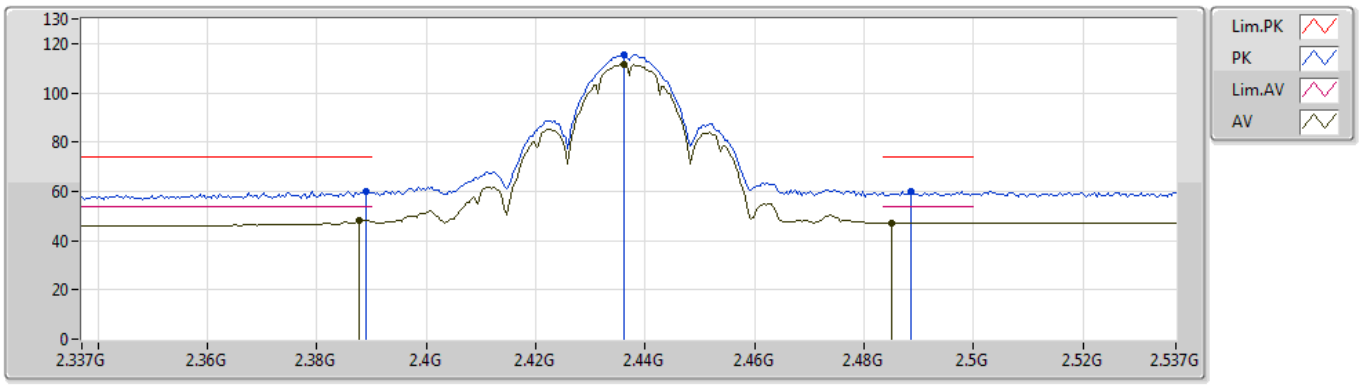
EUT Y_2TX
Setting 22
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3876G	59.32	74.00	-14.68	31.20	3	Horizontal	135	1.69	-	28.12
AV	2.39G	48.37	54.00	-5.63	31.20	3	Horizontal	135	1.69	-	17.17
PK	2.418G	106.28	Inf	-Inf	31.27	3	Horizontal	135	1.69	-	75.01
AV	2.4188G	102.38	Inf	-Inf	31.27	3	Horizontal	135	1.69	-	71.11

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

27/11/2019



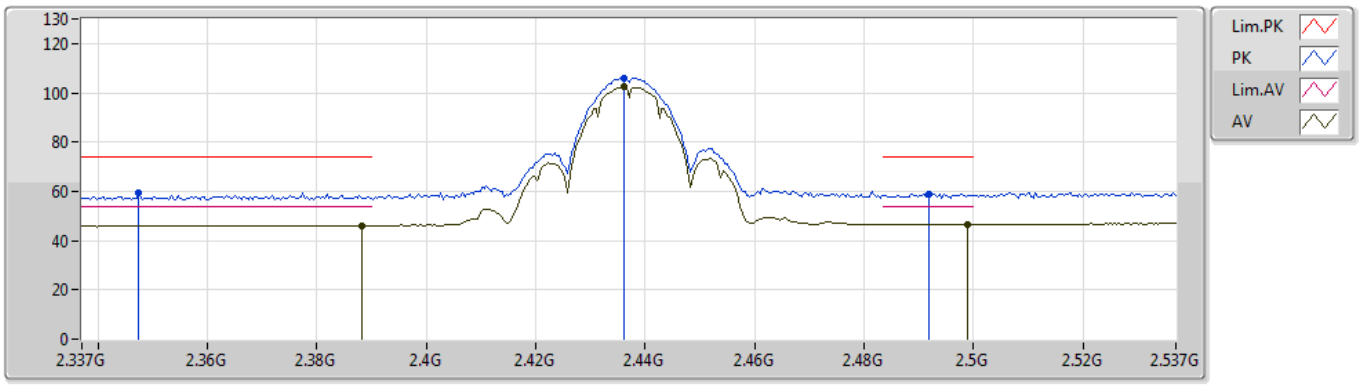
EUT Y_2TX
Setting 24
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	60.21	74.00	-13.79	31.20	3	Vertical	107	1.29	-	29.01
AV	2.3878G	48.28	54.00	-5.72	31.20	3	Vertical	107	1.29	-	17.08
PK	2.4362G	115.34	Inf	-Inf	31.30	3	Vertical	107	1.29	-	84.04
AV	2.4362G	111.52	Inf	-Inf	31.30	3	Vertical	107	1.29	-	80.22
PK	2.4886G	60.01	74.00	-13.99	31.41	3	Vertical	107	1.29	-	28.60
AV	2.485G	47.32	54.00	-6.68	31.40	3	Vertical	107	1.29	-	15.92

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

27/11/2019



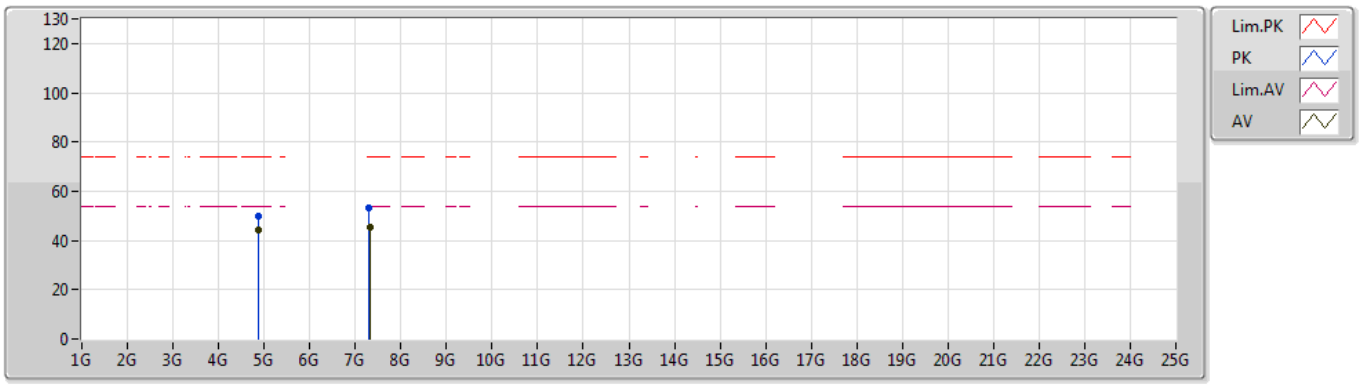
EUT Y_2TX
Setting 24
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3474G	59.48	74.00	-14.52	31.10	3	Horizontal	9	1.48	-	28.38
AV	2.3882G	46.20	54.00	-7.80	31.20	3	Horizontal	9	1.48	-	15.00
PK	2.4362G	106.14	Inf	-Inf	31.30	3	Horizontal	9	1.48	-	74.84
AV	2.4362G	102.34	Inf	-Inf	31.30	3	Horizontal	9	1.48	-	71.04
PK	2.4918G	58.99	74.00	-15.01	31.42	3	Horizontal	9	1.48	-	27.57
AV	2.499G	46.69	54.00	-7.31	31.43	3	Horizontal	9	1.48	-	15.26

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

27/11/2019



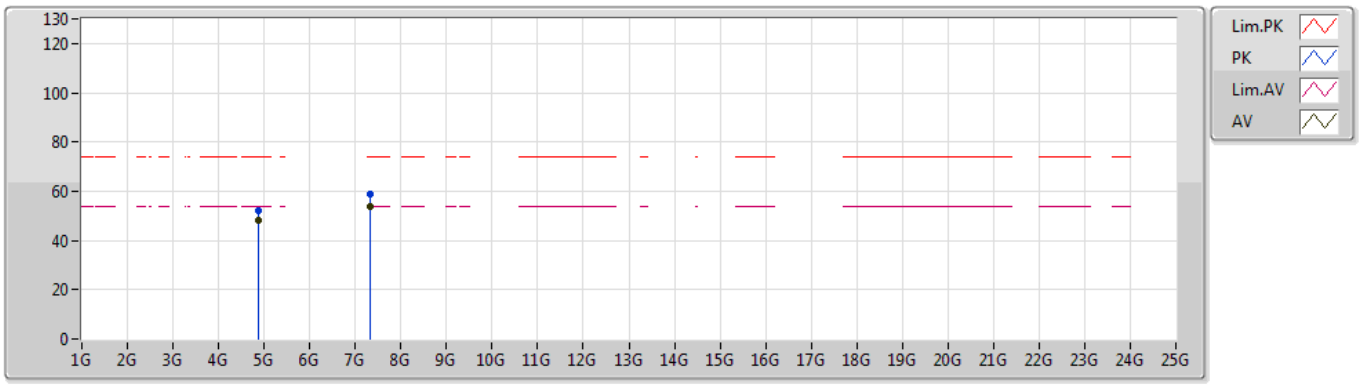
EUT Y_2TX
Setting 24
02-B-C-4

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87402G	49.63	74.00	-24.37	7.28	3	Vertical	310	1.74	-	42.35
AV	4.87408G	44.21	54.00	-9.79	7.28	3	Vertical	310	1.74	-	36.93
PK	7.31002G	53.29	74.00	-20.71	10.54	3	Vertical	102	1.60	-	42.75
AV	7.31176G	45.48	54.00	-8.52	10.55	3	Vertical	102	1.60	-	34.93

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

27/11/2019



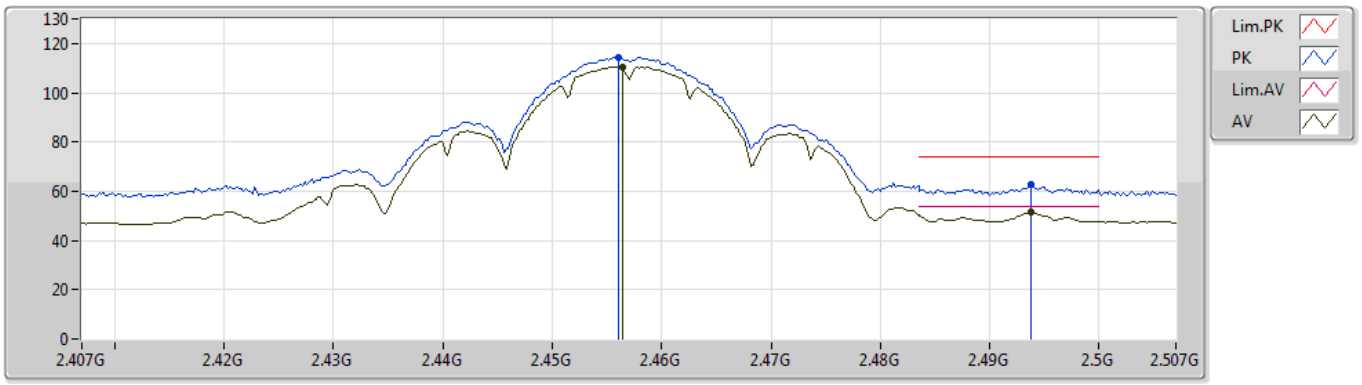
EUT Y_2TX
Setting 24
02-B-C-4

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87402G	51.90	74.00	-22.10	7.28	3	Horizontal	180	2.30	-	44.62
AV	4.87402G	48.06	54.00	-5.94	7.28	3	Horizontal	180	2.30	-	40.78
PK	7.31194G	59.06	74.00	-14.94	10.55	3	Horizontal	205	1.72	-	48.51
AV	7.31176G	53.81	54.00	-0.19	10.55	3	Horizontal	205	1.72	-	43.26

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

27/11/2019



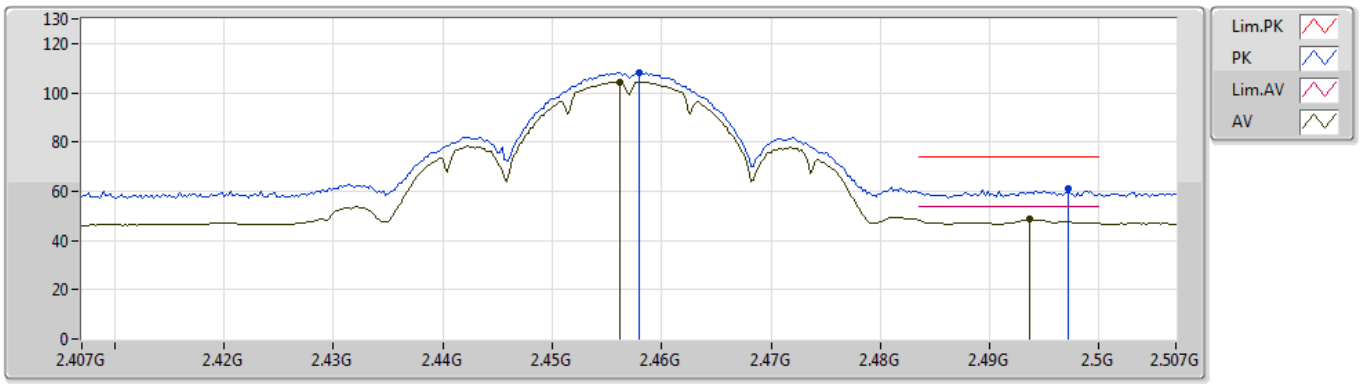
EUT Y_2TX
Setting 24
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.456G	114.37	Inf	-Inf	31.34	3	Vertical	112	1.26	-	83.03
AV	2.4564G	110.49	Inf	-Inf	31.34	3	Vertical	112	1.26	-	79.15
PK	2.4938G	62.75	74.00	-11.25	31.42	3	Vertical	112	1.26	-	31.33
AV	2.4938G	51.56	54.00	-2.44	31.42	3	Vertical	112	1.26	-	20.14

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

27/11/2019



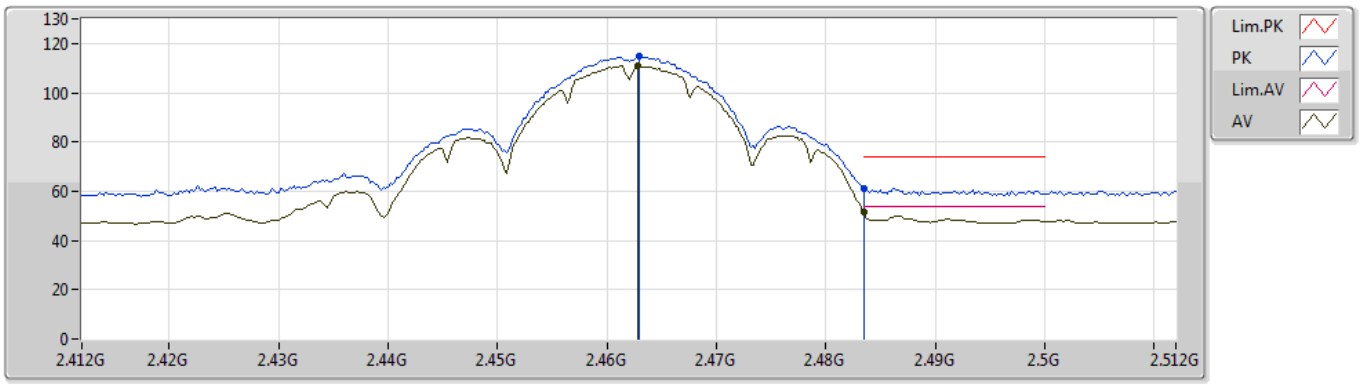
EUT Y_2TX
Setting 24
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.458G	108.23	Inf	-Inf	31.34	3	Horizontal	192	1.06	-	76.89
AV	2.4562G	104.37	Inf	-Inf	31.34	3	Horizontal	192	1.06	-	73.03
PK	2.4972G	61.10	74.00	-12.90	31.43	3	Horizontal	192	1.06	-	29.67
AV	2.4936G	48.63	54.00	-5.37	31.42	3	Horizontal	192	1.06	-	17.21

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

27/11/2019



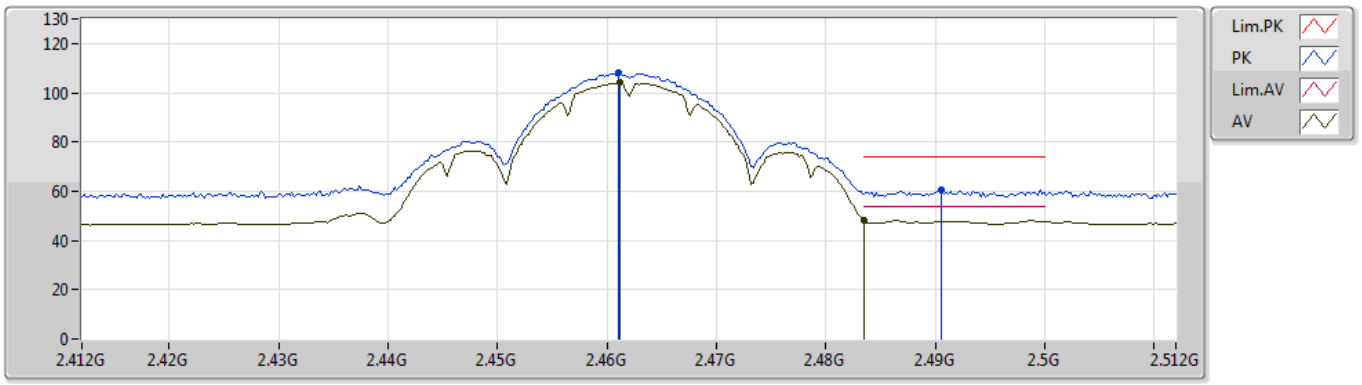
EUT Y_2TX
Setting 23
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.463G	114.77	Inf	-Inf	31.36	3	Vertical	101	1.83	-	83.41
AV	2.4628G	110.74	Inf	-Inf	31.36	3	Vertical	101	1.83	-	79.38
PK	2.4835G	61.13	74.00	-12.87	31.39	3	Vertical	101	1.83	-	29.74
AV	2.4835G	51.64	54.00	-2.36	31.39	3	Vertical	101	1.83	-	20.25

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

27/11/2019



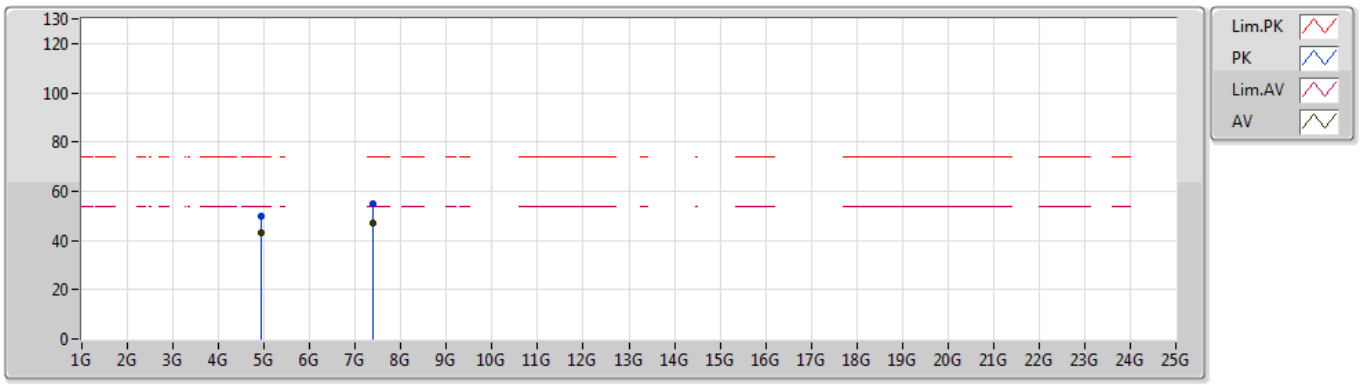
EUT Y_2TX
Setting 23
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.461G	107.87	Inf	-Inf	31.35	3	Horizontal	195	1.07	-	76.52
AV	2.4612G	104.10	Inf	-Inf	31.35	3	Horizontal	195	1.07	-	72.75
PK	2.4906G	60.59	74.00	-13.41	31.41	3	Horizontal	195	1.07	-	29.18
AV	2.4835G	48.41	54.00	-5.59	31.39	3	Horizontal	195	1.07	-	17.02

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

27/11/2019



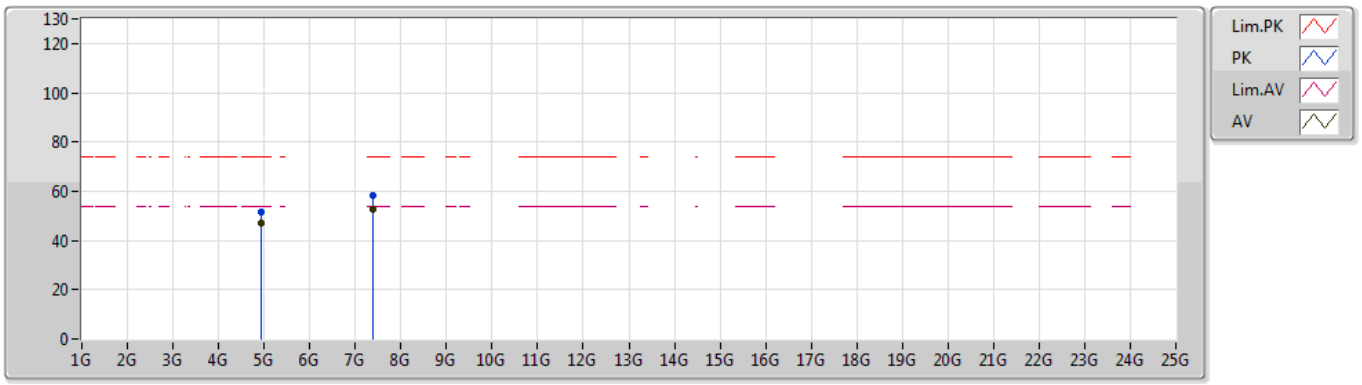
EUT Y_2TX
Setting 23
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92392G	49.72	74.00	-24.28	7.40	3	Vertical	75	1.49	-	42.32
AV	4.92402G	43.34	54.00	-10.66	7.40	3	Vertical	75	1.49	-	35.94
PK	7.38646G	54.69	74.00	-19.31	10.76	3	Vertical	229	2.97	-	43.93
AV	7.38676G	47.16	54.00	-6.84	10.76	3	Vertical	229	2.97	-	36.40

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

27/11/2019



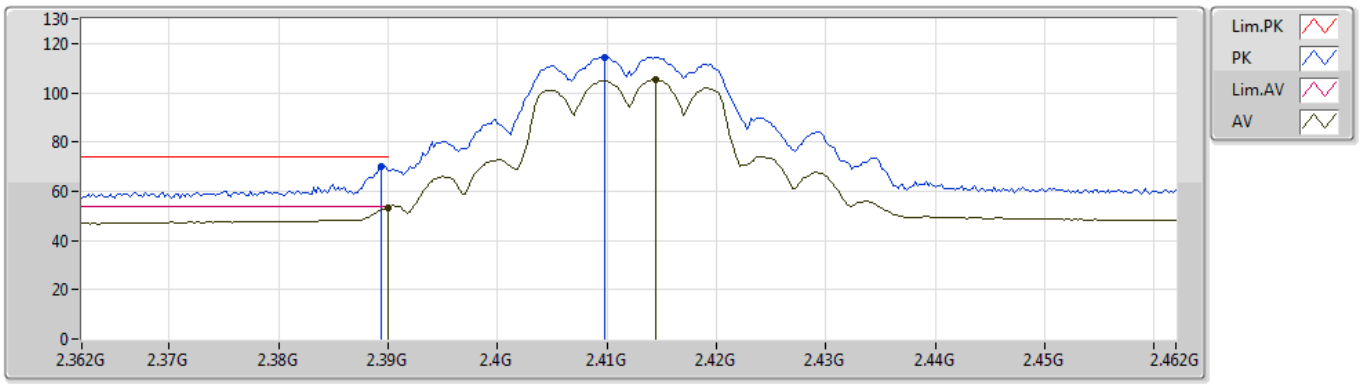
EUT Y_2TX
Setting 23
02-B-J-5

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92404G	51.47	74.00	-22.53	7.40	3	Horizontal	169	2.10	-	44.07
AV	4.92402G	46.97	54.00	-7.03	7.40	3	Horizontal	169	2.10	-	39.57
PK	7.38512G	58.48	74.00	-15.52	10.76	3	Horizontal	152	1.78	-	47.72
AV	7.38676G	52.65	54.00	-1.35	10.76	3	Horizontal	152	1.78	-	41.89

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

27/11/2019



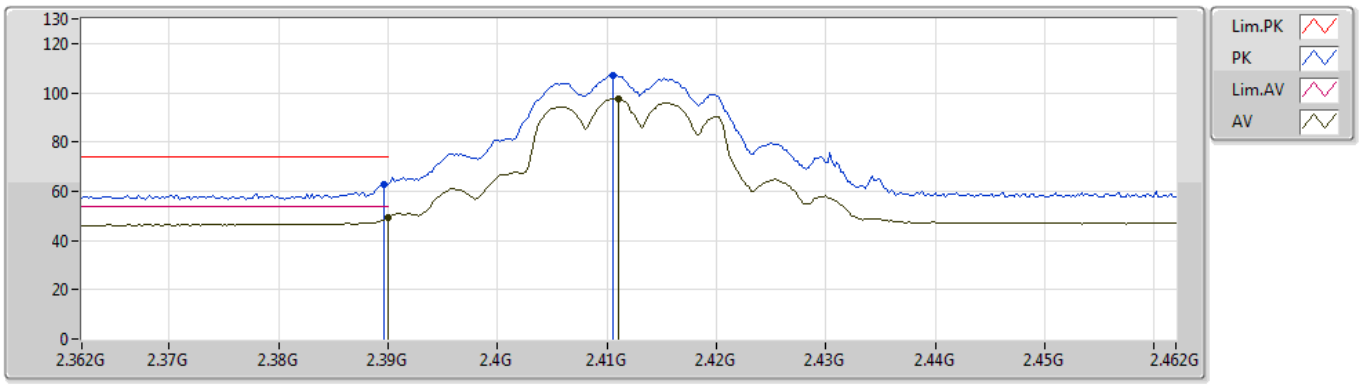
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3894G	70.13	74.00	-3.87	31.20	3	Vertical	157	2.49	-	38.93
AV	2.39G	53.50	54.00	-0.50	31.20	3	Vertical	157	2.49	-	22.30
PK	2.4098G	114.55	Inf	-Inf	31.25	3	Vertical	157	2.49	-	83.30
AV	2.4144G	105.29	Inf	-Inf	31.26	3	Vertical	157	2.49	-	74.03

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

27/11/2019



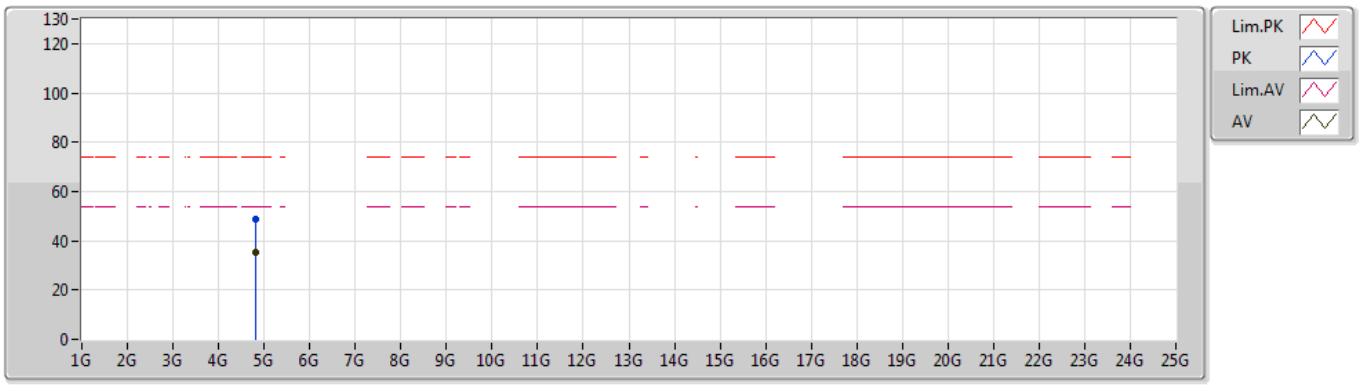
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	62.68	74.00	-11.32	31.20	3	Horizontal	323	2.28	-	31.48
AV	2.39G	49.16	54.00	-4.84	31.20	3	Horizontal	323	2.28	-	17.96
PK	2.4106G	106.95	Inf	-Inf	31.25	3	Horizontal	323	2.28	-	75.70
AV	2.411G	97.72	Inf	-Inf	31.25	3	Horizontal	323	2.28	-	66.47

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/11/2019



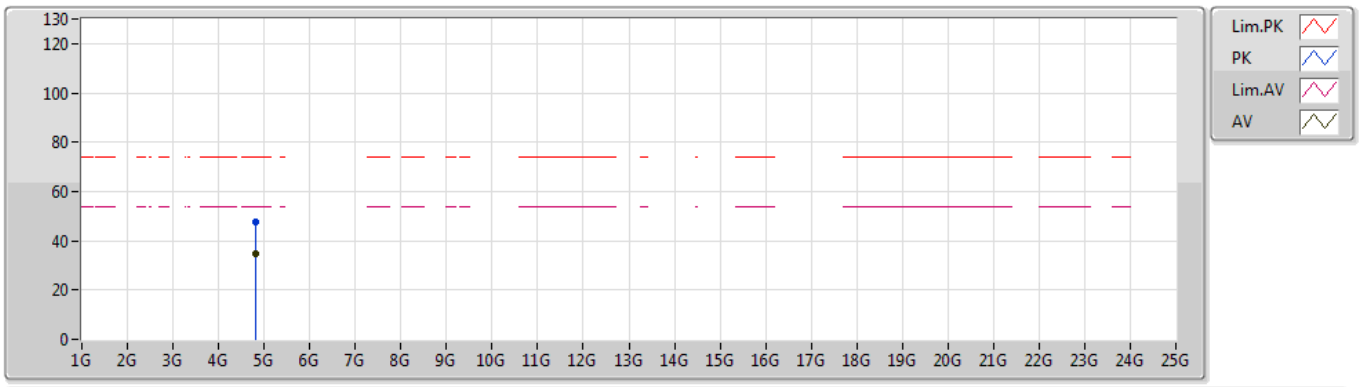
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8203G	48.92	74.00	-25.08	7.16	3	Vertical	175	3.00	-	41.76
AV	4.8254G	35.44	54.00	-18.56	7.18	3	Vertical	175	3.00	-	28.26

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

28/11/2019



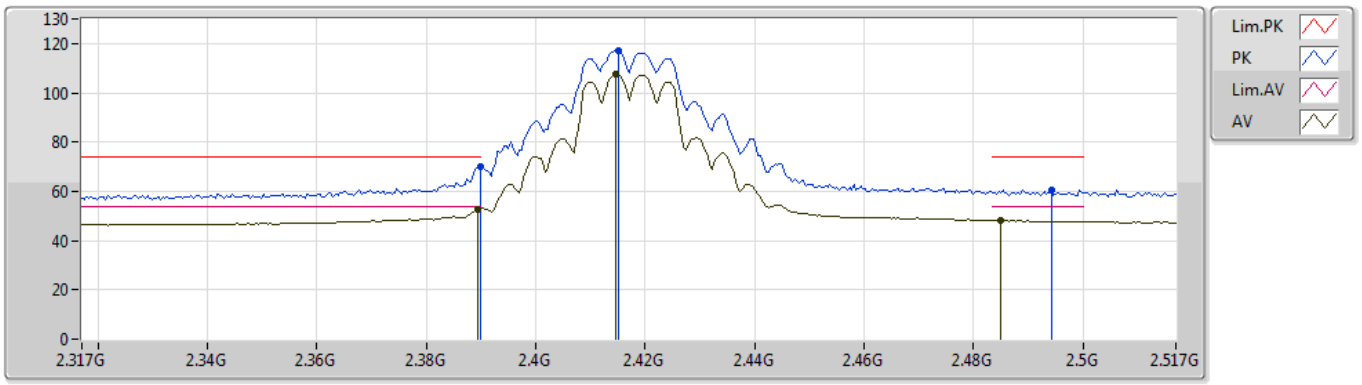
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8252G	47.81	74.00	-26.19	7.18	3	Horizontal	171	2.13	-	40.63
AV	4.8256G	34.50	54.00	-19.50	7.18	3	Horizontal	171	2.13	-	27.32

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

27/11/2019



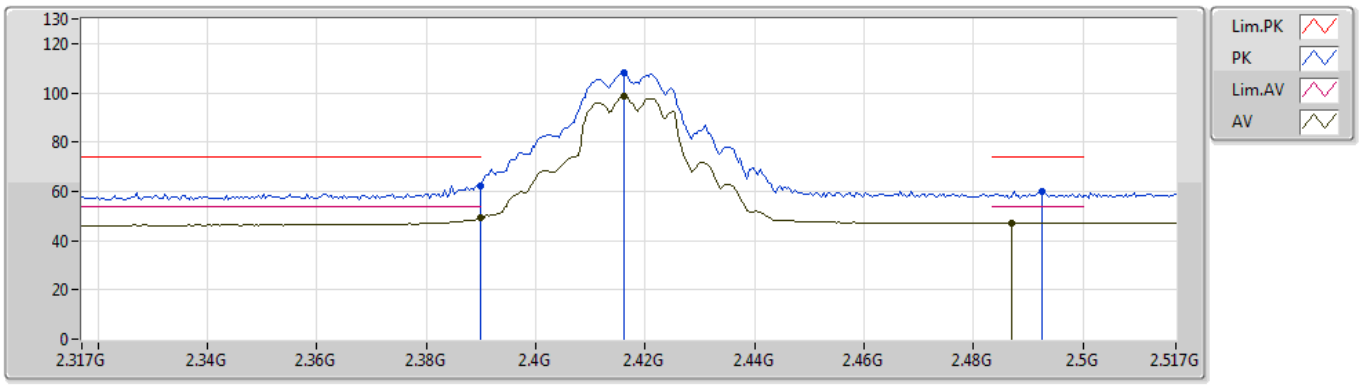
EUT Y_2TX
Setting 20
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	69.98	74.00	-4.02	31.20	3	Vertical	165	2.49	-	38.78
AV	2.3894G	52.87	54.00	-1.13	31.20	3	Vertical	165	2.49	-	21.67
PK	2.415G	117.16	Inf	-Inf	31.26	3	Vertical	165	2.49	-	85.90
AV	2.4146G	107.34	Inf	-Inf	31.26	3	Vertical	165	2.49	-	76.08
PK	2.4942G	60.76	74.00	-13.24	31.42	3	Vertical	165	2.49	-	29.34
AV	2.485G	48.38	54.00	-5.62	31.40	3	Vertical	165	2.49	-	16.98

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

27/11/2019



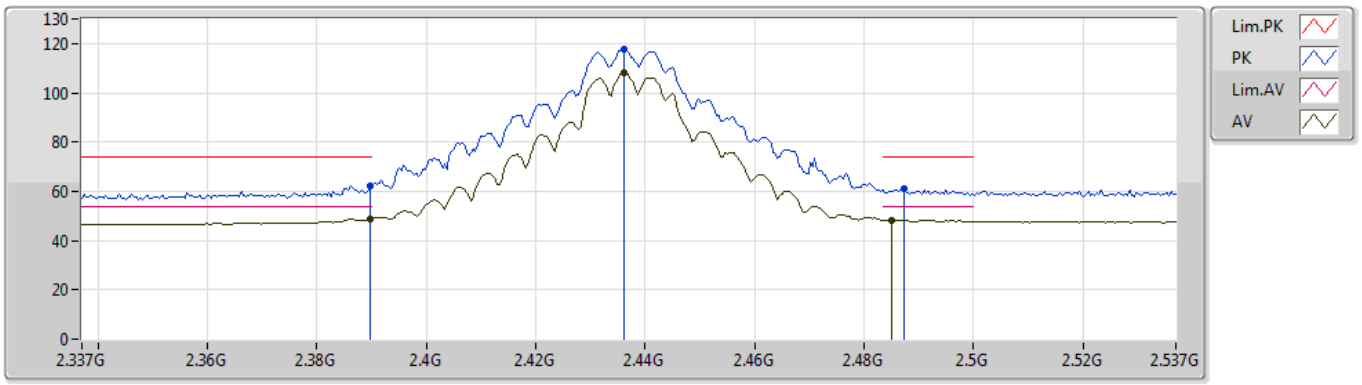
EUT Y_2TX
Setting 20
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	62.10	74.00	-11.90	31.20	3	Horizontal	186	1.81	-	30.90
AV	2.3898G	49.10	54.00	-4.90	31.20	3	Horizontal	186	1.81	-	17.90
PK	2.4162G	107.91	Inf	-Inf	31.27	3	Horizontal	186	1.81	-	76.64
AV	2.4162G	98.75	Inf	-Inf	31.27	3	Horizontal	186	1.81	-	67.48
PK	2.4926G	60.11	74.00	-13.89	31.42	3	Horizontal	186	1.81	-	28.69
AV	2.487G	47.13	54.00	-6.87	31.40	3	Horizontal	186	1.81	-	15.73

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

27/11/2019



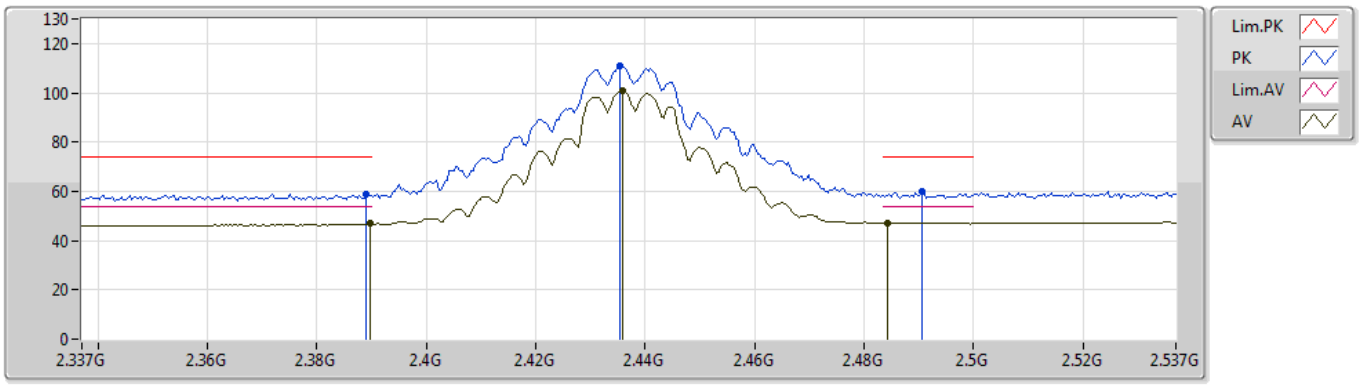
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	62.33	74.00	-11.67	31.20	3	Vertical	221	1.68	-	31.13
AV	2.3898G	49.02	54.00	-4.98	31.20	3	Vertical	221	1.68	-	17.82
PK	2.4362G	117.83	Inf	-Inf	31.30	3	Vertical	221	1.68	-	86.53
AV	2.4362G	108.21	Inf	-Inf	31.30	3	Vertical	221	1.68	-	76.91
PK	2.4874G	61.06	74.00	-12.94	31.40	3	Vertical	221	1.68	-	29.66
AV	2.485G	48.43	54.00	-5.57	31.40	3	Vertical	221	1.68	-	17.03

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

27/11/2019



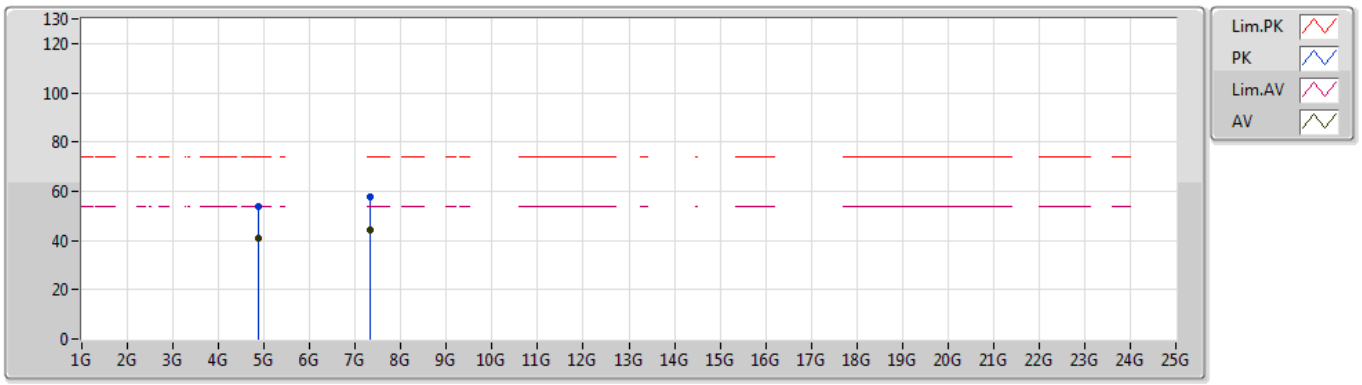
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	58.92	74.00	-15.08	31.20	3	Horizontal	177	2.48	-	27.72
AV	2.3898G	46.88	54.00	-7.12	31.20	3	Horizontal	177	2.48	-	15.68
PK	2.4354G	110.81	Inf	-Inf	31.30	3	Horizontal	177	2.48	-	79.51
AV	2.4358G	100.92	Inf	-Inf	31.30	3	Horizontal	177	2.48	-	69.62
PK	2.4906G	59.93	74.00	-14.07	31.41	3	Horizontal	177	2.48	-	28.52
AV	2.4842G	47.15	54.00	-6.85	31.39	3	Horizontal	177	2.48	-	15.76

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/11/2019



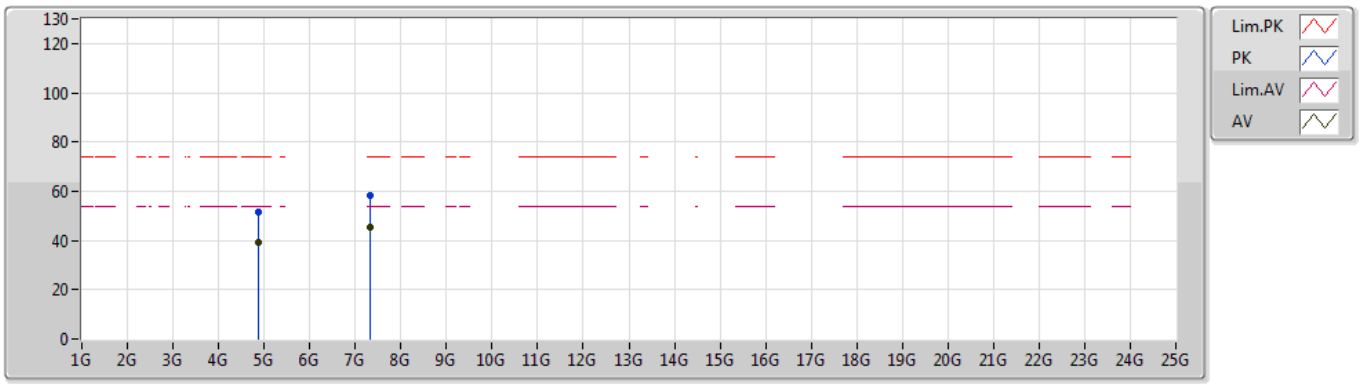
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8702G	53.58	74.00	-20.42	7.27	3	Vertical	158	2.81	-	46.31
AV	4.8751G	40.75	54.00	-13.25	7.29	3	Vertical	158	2.81	-	33.46
PK	7.3149G	57.87	74.00	-16.13	10.56	3	Vertical	168	1.81	-	47.31
AV	7.3126G	44.36	54.00	-9.64	10.56	3	Vertical	168	1.81	-	33.80

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

28/11/2019



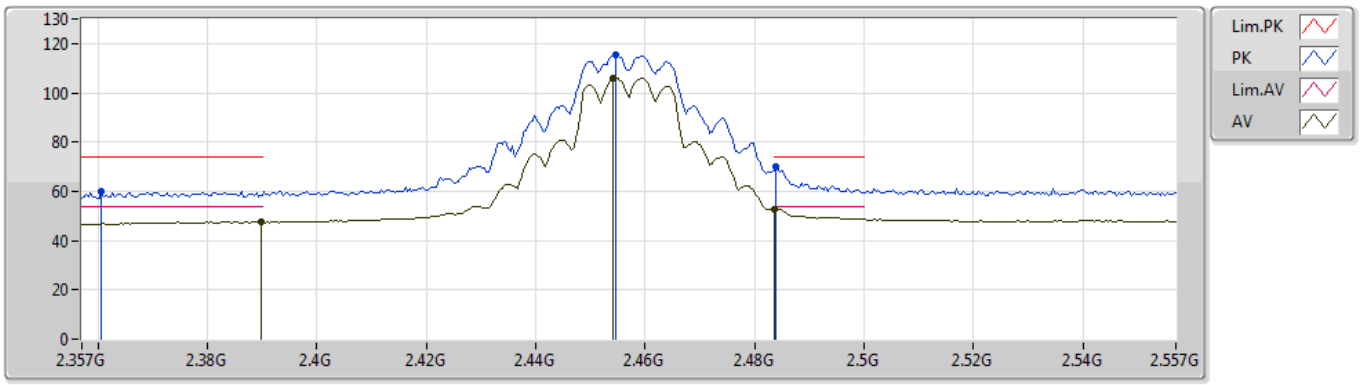
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8765G	51.55	74.00	-22.45	7.30	3	Horizontal	193	1.99	-	44.25
AV	4.8757G	39.00	54.00	-15.00	7.29	3	Horizontal	193	1.99	-	31.71
PK	7.3147G	58.55	74.00	-15.45	10.56	3	Horizontal	202	1.79	-	47.99
AV	7.3125G	45.66	54.00	-8.34	10.56	3	Horizontal	202	1.79	-	35.10

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

27/11/2019



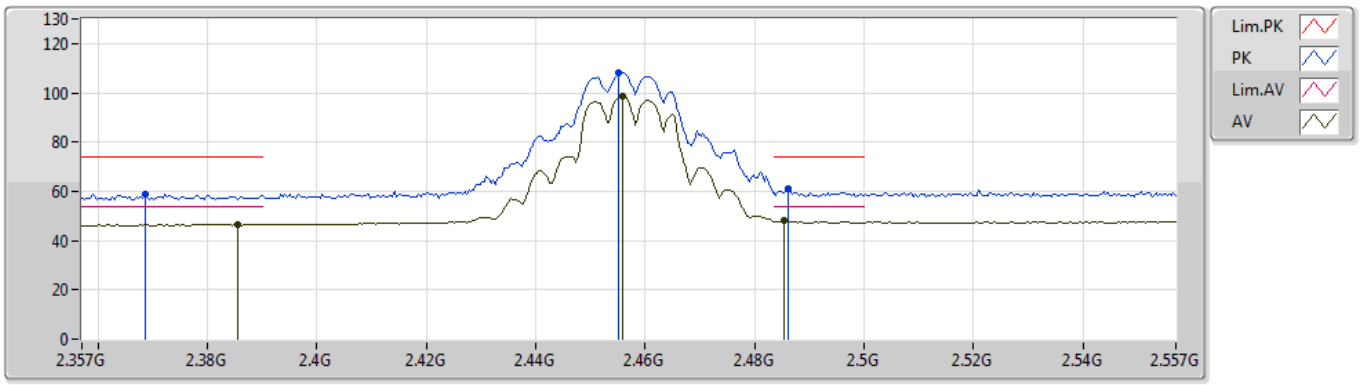
EUT Y_2TX
Setting 1F
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3606G	60.00	74.00	-14.00	31.13	3	Vertical	179	2.68	-	28.87
AV	2.3898G	47.53	54.00	-6.47	31.20	3	Vertical	179	2.68	-	16.33
PK	2.4546G	115.49	Inf	-Inf	31.34	3	Vertical	179	2.68	-	84.15
AV	2.4542G	105.98	Inf	-Inf	31.34	3	Vertical	179	2.68	-	74.64
PK	2.4838G	69.77	74.00	-4.23	31.39	3	Vertical	179	2.68	-	38.38
AV	2.4835G	52.74	54.00	-1.26	31.39	3	Vertical	179	2.68	-	21.35

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

27/11/2019



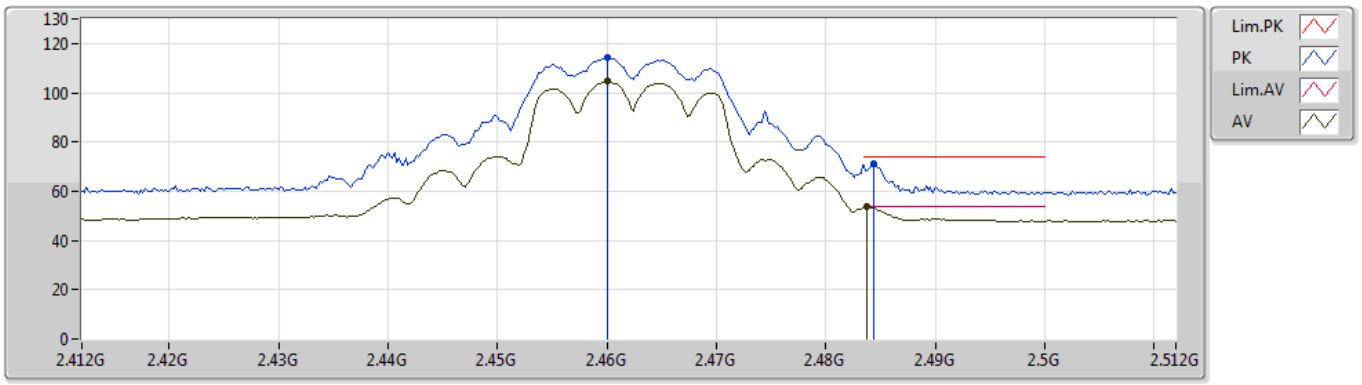
EUT Y_2TX
Setting 1F
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3686G	59.00	74.00	-15.00	31.15	3	Horizontal	337	1.81	-	27.85
AV	2.3854G	46.52	54.00	-7.48	31.19	3	Horizontal	337	1.81	-	15.33
PK	2.455G	108.19	Inf	-Inf	31.34	3	Horizontal	337	1.81	-	76.85
AV	2.4558G	98.80	Inf	-Inf	31.34	3	Horizontal	337	1.81	-	67.46
PK	2.4862G	61.11	74.00	-12.89	31.40	3	Horizontal	337	1.81	-	29.71
AV	2.4854G	47.95	54.00	-6.05	31.40	3	Horizontal	337	1.81	-	16.55

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

27/11/2019



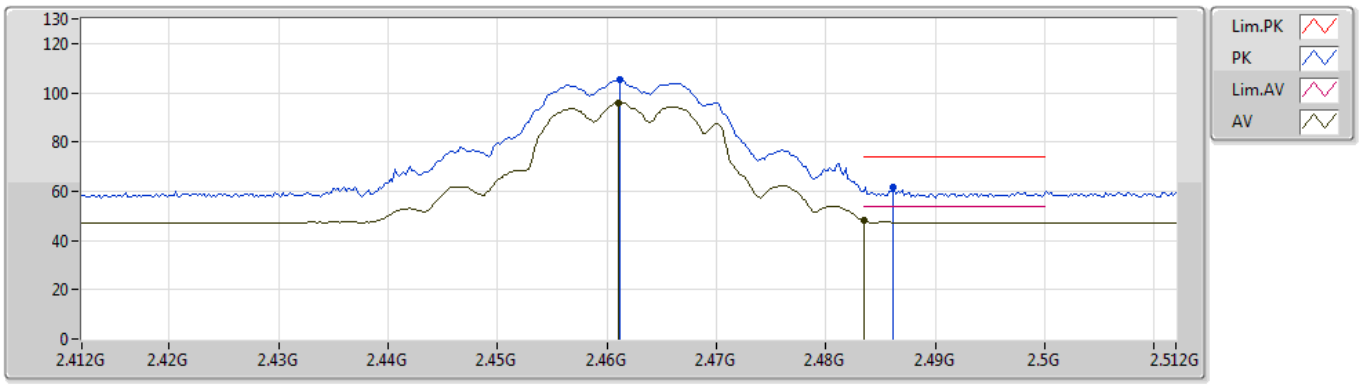
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.46G	114.36	Inf	-Inf	31.35	3	Vertical	153	2.24	-	83.01
AV	2.46G	104.59	Inf	-Inf	31.35	3	Vertical	153	2.24	-	73.24
PK	2.4844G	70.95	74.00	-3.05	31.40	3	Vertical	153	2.24	-	39.55
AV	2.4838G	53.52	54.00	-0.48	31.39	3	Vertical	153	2.24	-	22.13

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

27/11/2019



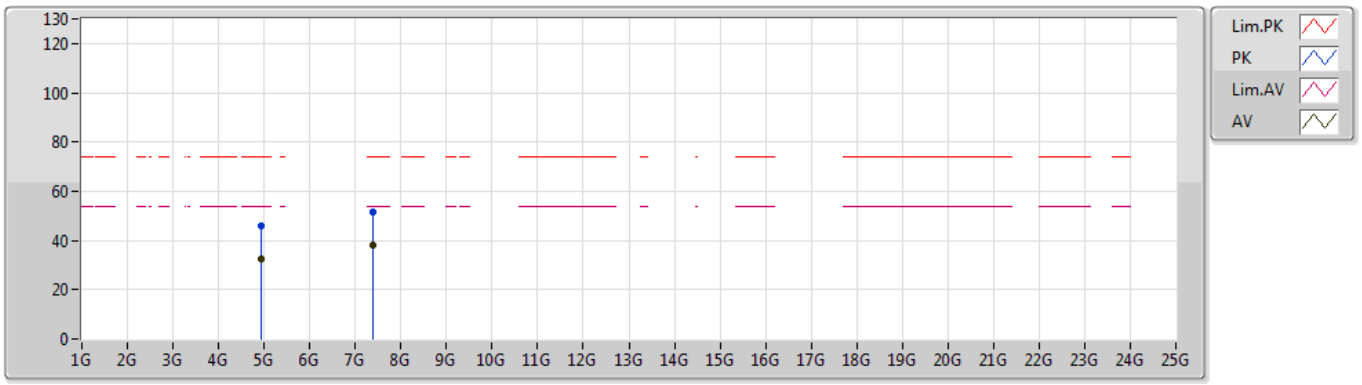
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4612G	105.35	Inf	-Inf	31.35	3	Horizontal	189	1.75	-	74.00
AV	2.461G	96.09	Inf	-Inf	31.35	3	Horizontal	189	1.75	-	64.74
PK	2.4862G	61.80	74.00	-12.20	31.40	3	Horizontal	189	1.75	-	30.40
AV	2.4835G	48.17	54.00	-5.83	31.39	3	Horizontal	189	1.75	-	16.78

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/11/2019



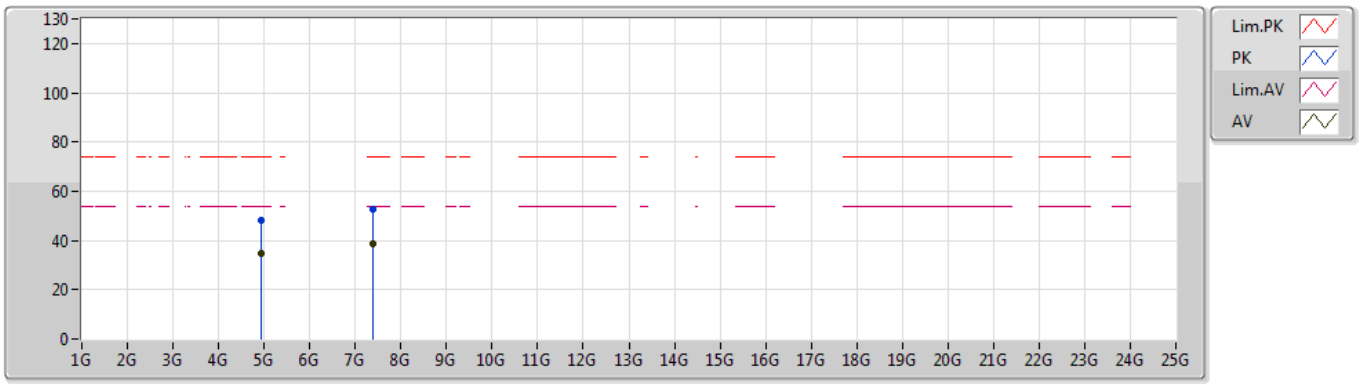
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.9294G	45.71	74.00	-28.29	7.43	3	Vertical	313	2.84	-	38.28
AV	4.9258G	32.50	54.00	-21.50	7.42	3	Vertical	313	2.84	-	25.08
PK	7.3859G	51.58	74.00	-22.42	10.76	3	Vertical	171	1.93	-	40.82
AV	7.3859G	37.89	54.00	-16.11	10.76	3	Vertical	171	1.93	-	27.13

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

28/11/2019



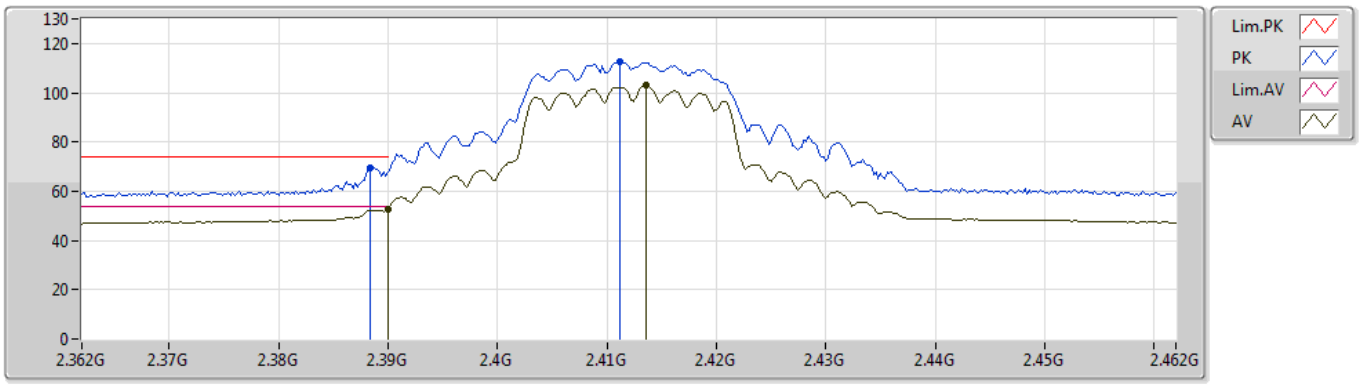
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.9204G	48.37	74.00	-25.63	7.39	3	Horizontal	183	1.86	-	40.98
AV	4.9259G	34.55	54.00	-19.45	7.42	3	Horizontal	183	1.86	-	27.13
PK	7.3835G	52.84	74.00	-21.16	10.75	3	Horizontal	189	1.74	-	42.09
AV	7.3834G	38.70	54.00	-15.30	10.75	3	Horizontal	189	1.74	-	27.95

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

27/11/2019



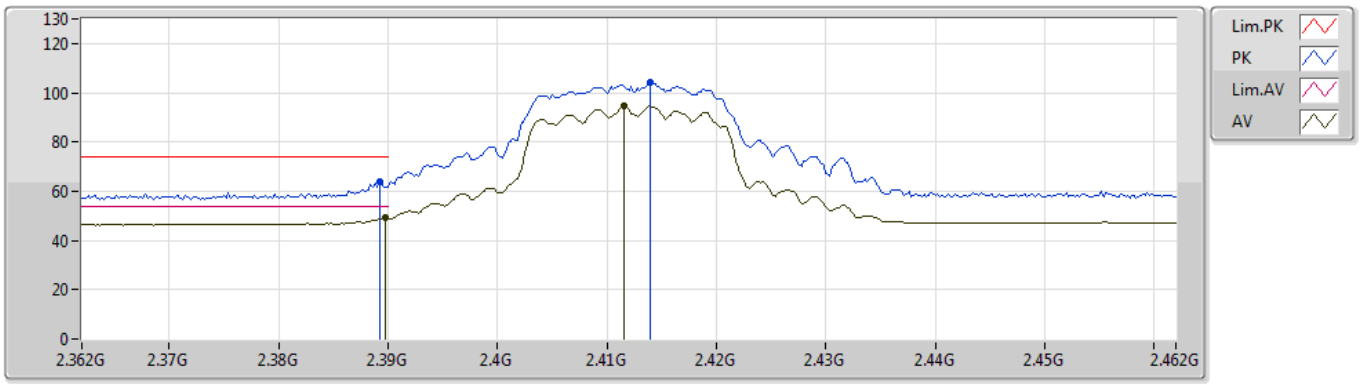
EUT Y_2TX
Setting 19
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3884G	69.57	74.00	-4.43	31.20	3	Vertical	138	2.81	-	38.37
AV	2.39G	52.93	54.00	-1.07	31.20	3	Vertical	138	2.81	-	21.73
PK	2.4112G	112.79	Inf	-Inf	31.25	3	Vertical	138	2.81	-	81.54
AV	2.4136G	102.97	Inf	-Inf	31.26	3	Vertical	138	2.81	-	71.71

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

27/11/2019



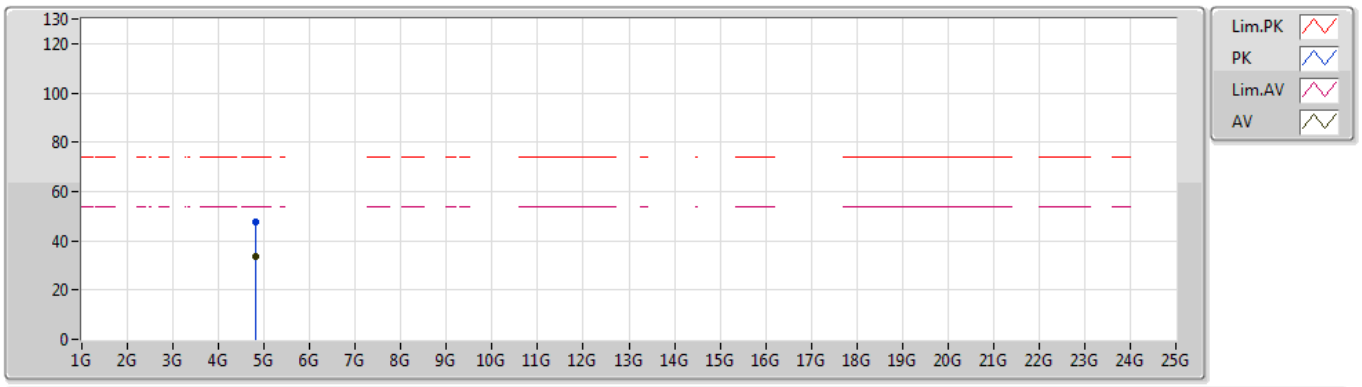
EUT Y_2TX
Setting 19
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3892G	63.62	74.00	-10.38	31.20	3	Horizontal	182	1.81	-	32.42
AV	2.3898G	49.19	54.00	-4.81	31.20	3	Horizontal	182	1.81	-	17.99
PK	2.414G	104.43	Inf	-Inf	31.26	3	Horizontal	182	1.81	-	73.17
AV	2.4116G	94.51	Inf	-Inf	31.25	3	Horizontal	182	1.81	-	63.26

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/11/2019



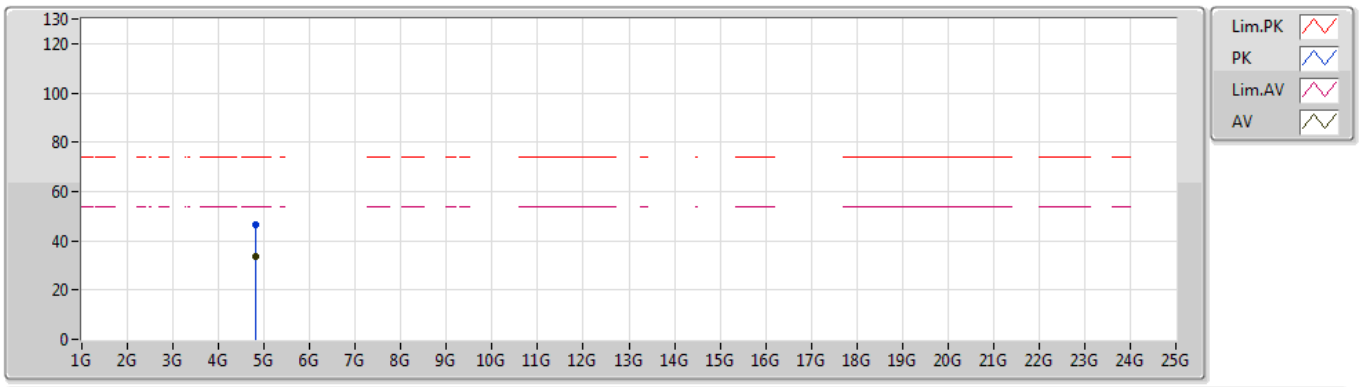
EUT Y_2TX
Setting 19
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8271G	47.42	74.00	-26.58	7.18	3	Vertical	182	3.00	-	40.24
AV	4.8271G	33.84	54.00	-20.16	7.18	3	Vertical	182	3.00	-	26.66

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

28/11/2019



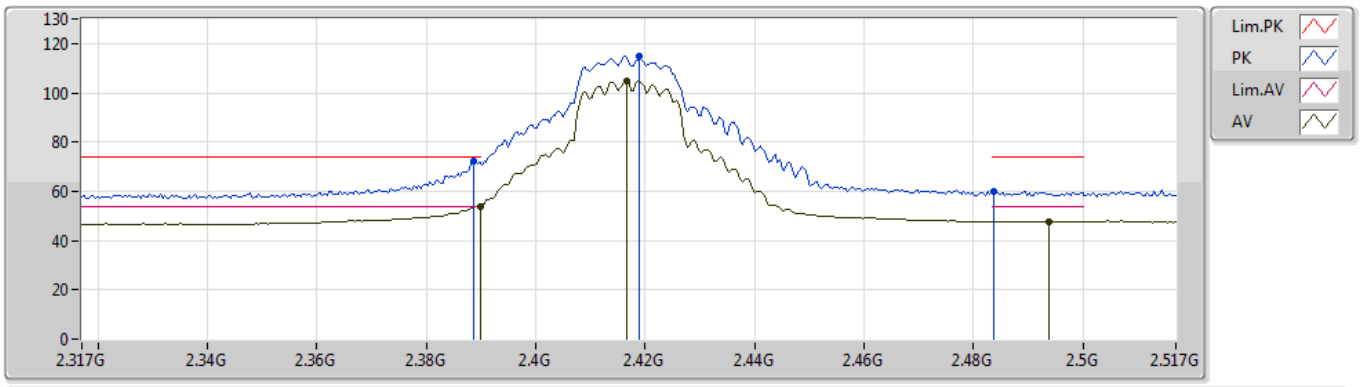
EUT Y_2TX
Setting 19
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8248G	46.36	74.00	-27.64	7.17	3	Horizontal	191	2.13	-	39.19
AV	4.8272G	33.58	54.00	-20.42	7.18	3	Horizontal	191	2.13	-	26.40

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

27/11/2019



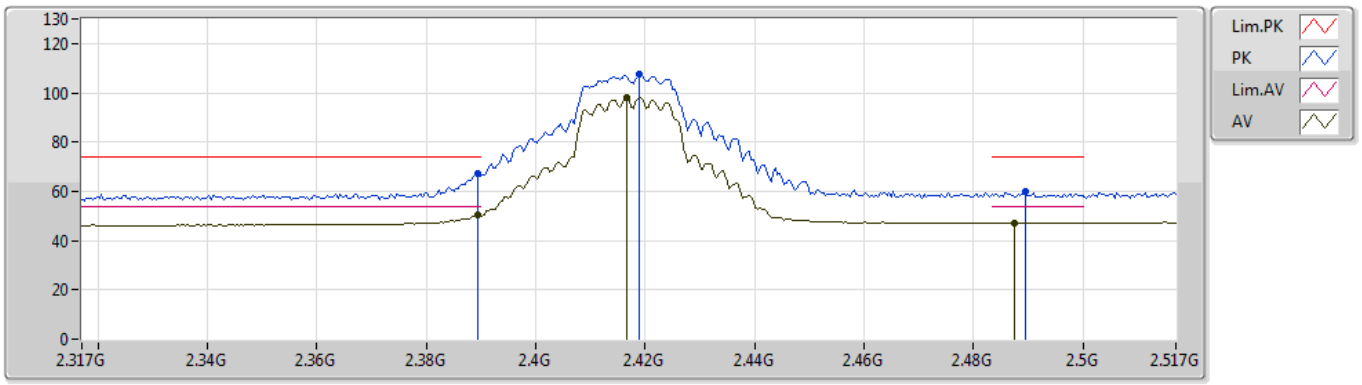
EUT Y_2TX
Setting 21
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3886G	72.38	74.00	-1.62	31.20	3	Vertical	114	1.84	-	41.18
AV	2.3898G	53.94	54.00	-0.06	31.20	3	Vertical	114	1.84	-	22.74
PK	2.419G	114.66	Inf	-Inf	31.27	3	Vertical	114	1.84	-	83.39
AV	2.4166G	105.00	Inf	-Inf	31.27	3	Vertical	114	1.84	-	73.73
PK	2.4838G	60.03	74.00	-13.97	31.39	3	Vertical	114	1.84	-	28.64
AV	2.4938G	47.76	54.00	-6.24	31.42	3	Vertical	114	1.84	-	16.34

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

27/11/2019



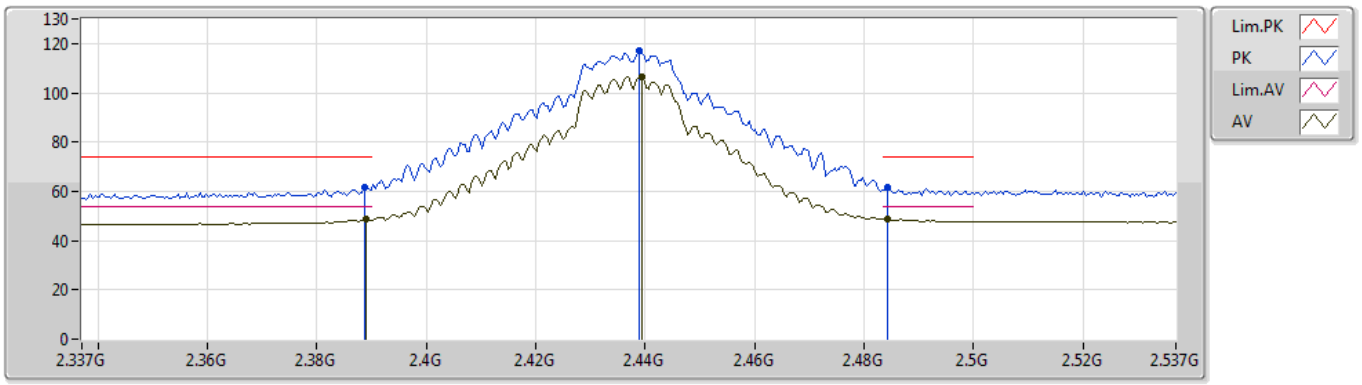
EUT Y_2TX
Setting 21
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3894G	67.25	74.00	-6.75	31.20	3	Horizontal	162	1.81	-	36.05
AV	2.3894G	50.17	54.00	-3.83	31.20	3	Horizontal	162	1.81	-	18.97
PK	2.419G	107.83	Inf	-Inf	31.27	3	Horizontal	162	1.81	-	76.56
AV	2.4166G	98.02	Inf	-Inf	31.27	3	Horizontal	162	1.81	-	66.75
PK	2.4894G	59.73	74.00	-14.27	31.41	3	Horizontal	162	1.81	-	28.32
AV	2.4874G	47.04	54.00	-6.96	31.40	3	Horizontal	162	1.81	-	15.64

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

27/11/2019



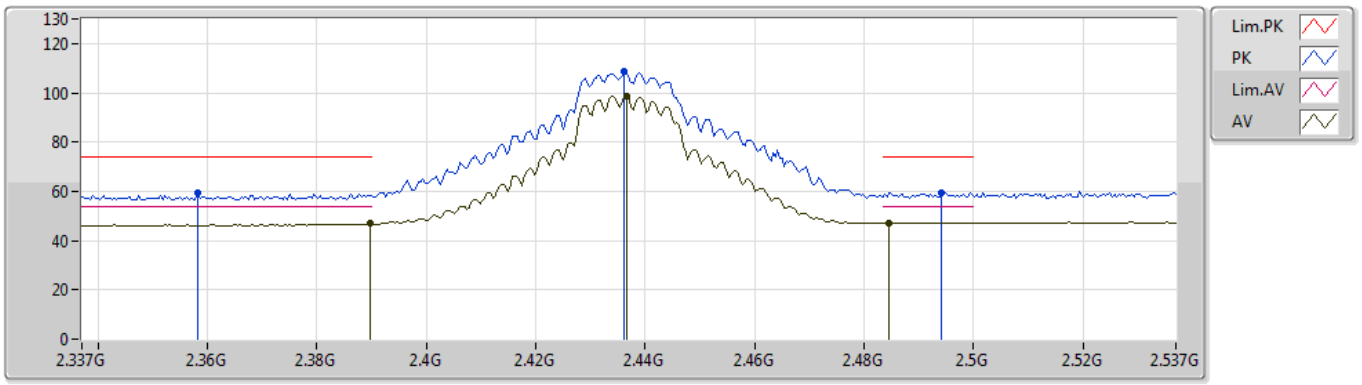
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3886G	61.87	74.00	-12.13	31.20	3	Vertical	214	1.26	-	30.67
AV	2.389G	48.60	54.00	-5.40	31.20	3	Vertical	214	1.26	-	17.40
PK	2.439G	116.93	Inf	-Inf	31.31	3	Vertical	214	1.26	-	85.62
AV	2.4394G	106.34	Inf	-Inf	31.31	3	Vertical	214	1.26	-	75.03
PK	2.4842G	61.43	74.00	-12.57	31.39	3	Vertical	214	1.26	-	30.04
AV	2.4842G	48.84	54.00	-5.16	31.39	3	Vertical	214	1.26	-	17.45

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

27/11/2019



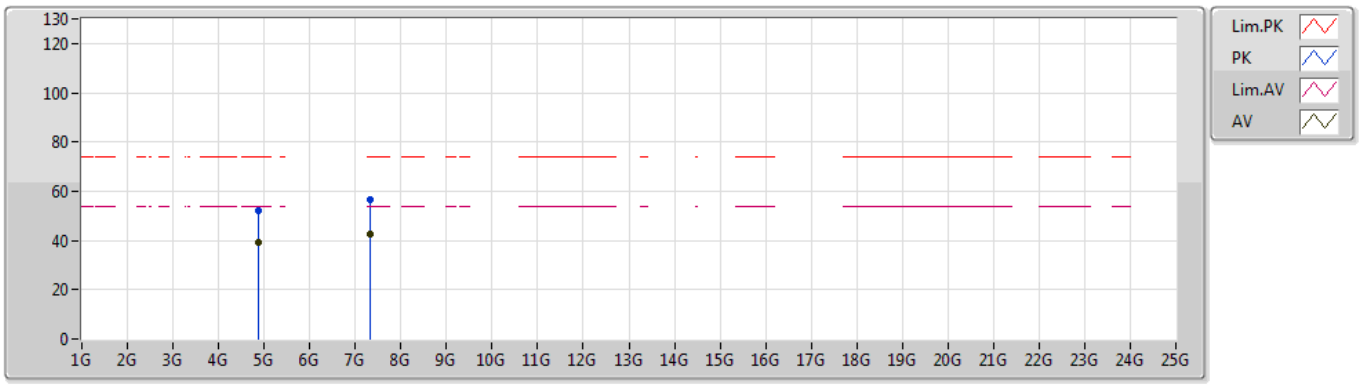
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3582G	59.41	74.00	-14.59	31.12	3	Horizontal	14	1.50	-	28.29
AV	2.3898G	46.94	54.00	-7.06	31.20	3	Horizontal	14	1.50	-	15.74
PK	2.4362G	108.67	Inf	-Inf	31.30	3	Horizontal	14	1.50	-	77.37
AV	2.4366G	98.75	Inf	-Inf	31.30	3	Horizontal	14	1.50	-	67.45
PK	2.4942G	59.46	74.00	-14.54	31.42	3	Horizontal	14	1.50	-	28.04
AV	2.4846G	47.17	54.00	-6.83	31.40	3	Horizontal	14	1.50	-	15.77

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



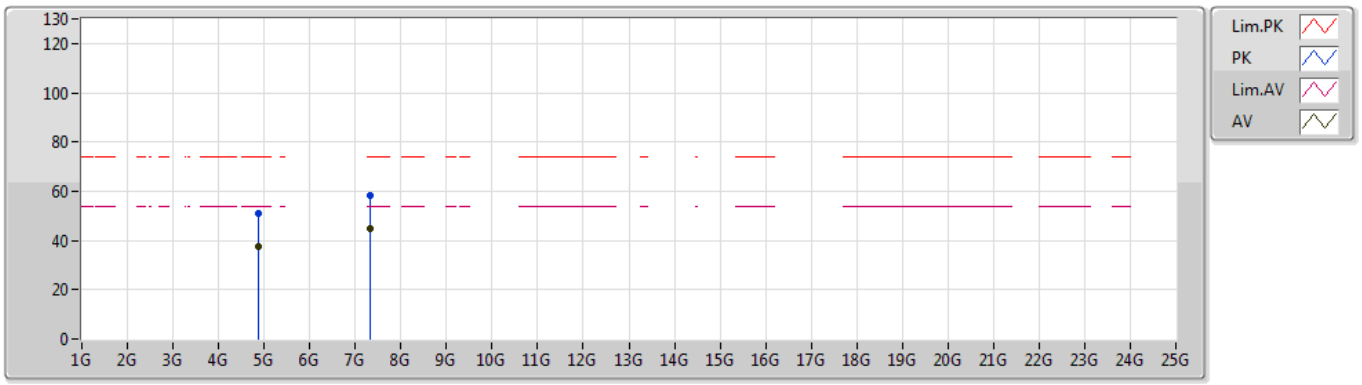
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8746G	52.39	74.00	-21.61	7.28	3	Vertical	163	2.97	-	45.11
AV	4.8724G	39.06	54.00	-14.94	7.28	3	Vertical	163	2.97	-	31.78
PK	7.3165G	56.70	74.00	-17.30	10.57	3	Vertical	162	1.74	-	46.13
AV	7.3113G	42.86	54.00	-11.14	10.54	3	Vertical	162	1.74	-	32.32

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



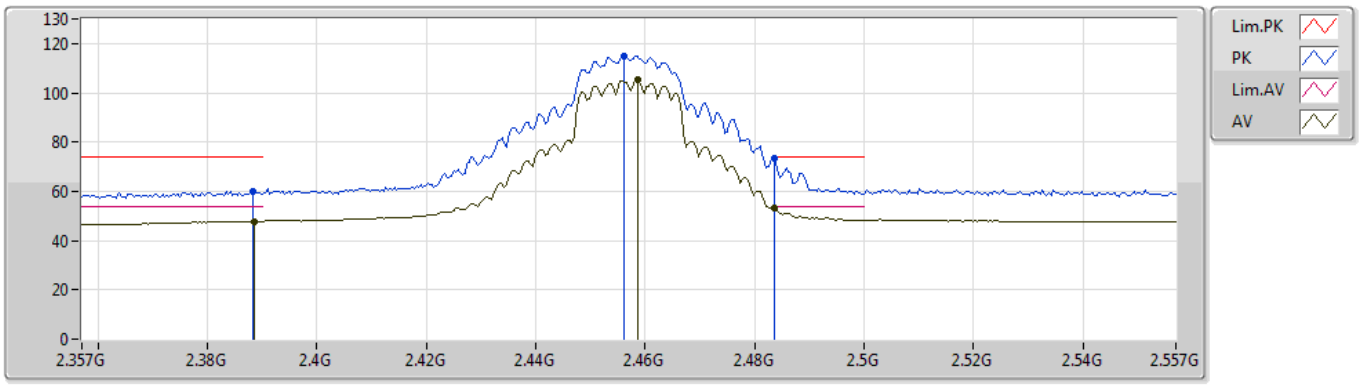
EUT Y_2TX
Setting 28
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8748G	50.72	74.00	-23.28	7.28	3	Horizontal	173	1.98	-	43.44
AV	4.8748G	37.53	54.00	-16.47	7.28	3	Horizontal	173	1.98	-	30.25
PK	7.314G	58.53	74.00	-15.47	10.56	3	Horizontal	198	1.74	-	47.97
AV	7.3142G	44.60	54.00	-9.40	10.56	3	Horizontal	198	1.74	-	34.04

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

27/11/2019



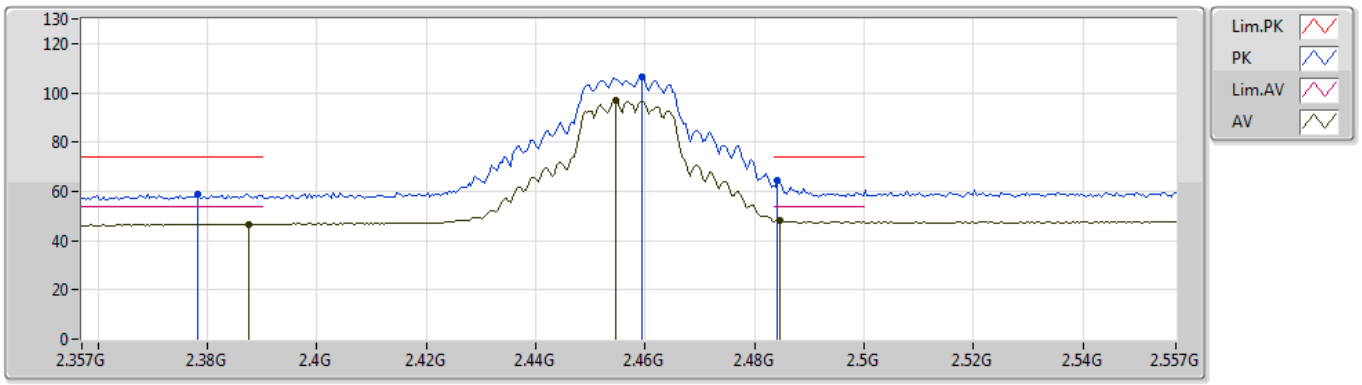
EUT Y_2TX
Setting 1F
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3882G	59.89	74.00	-14.11	31.20	3	Vertical	152	2.24	-	28.69
AV	2.3886G	47.83	54.00	-6.17	31.20	3	Vertical	152	2.24	-	16.63
PK	2.4562G	115.00	Inf	-Inf	31.34	3	Vertical	152	2.24	-	83.66
AV	2.4586G	105.56	Inf	-Inf	31.34	3	Vertical	152	2.24	-	74.22
PK	2.4835G	73.59	74.00	-0.41	31.39	3	Vertical	152	2.24	-	42.20
AV	2.4835G	53.27	54.00	-0.73	31.39	3	Vertical	152	2.24	-	21.88

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

28/11/2019



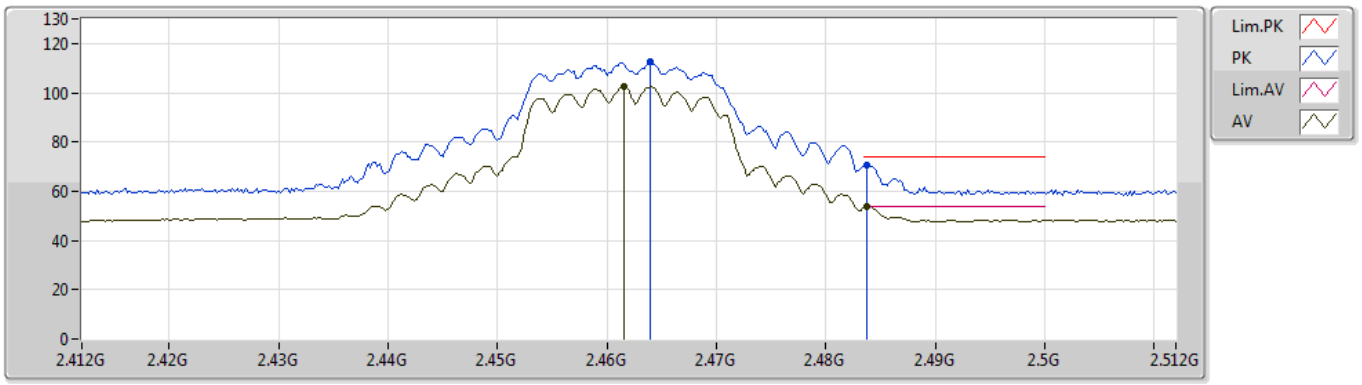
EUT Y_2TX
Setting 1F
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3782G	59.03	74.00	-14.97	31.17	3	Horizontal	188	1.05	-	27.86
AV	2.3874G	46.74	54.00	-7.26	31.20	3	Horizontal	188	1.05	-	15.54
PK	2.4594G	106.36	Inf	-Inf	31.35	3	Horizontal	188	1.05	-	75.01
AV	2.4546G	96.69	Inf	-Inf	31.34	3	Horizontal	188	1.05	-	65.35
PK	2.4842G	64.48	74.00	-9.52	31.39	3	Horizontal	188	1.05	-	33.09
AV	2.4846G	48.07	54.00	-5.93	31.40	3	Horizontal	188	1.05	-	16.67

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

27/11/2019



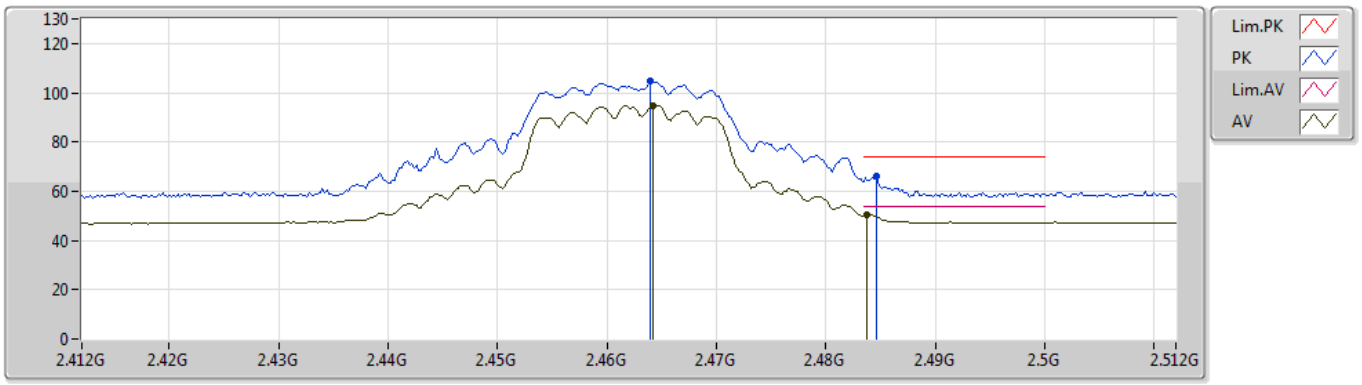
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.464G	112.53	Inf	-Inf	31.36	3	Vertical	131	1.70	-	81.17
AV	2.4616G	102.60	Inf	-Inf	31.35	3	Vertical	131	1.70	-	71.25
PK	2.4838G	70.52	74.00	-3.48	31.39	3	Vertical	131	1.70	-	39.13
AV	2.4838G	53.80	54.00	-0.20	31.39	3	Vertical	131	1.70	-	22.41

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

27/11/2019



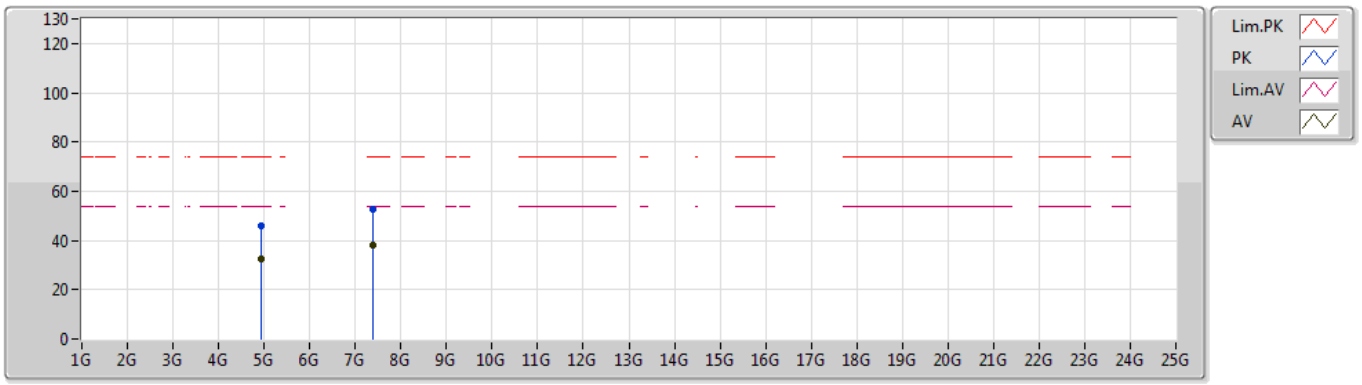
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.464G	104.60	Inf	-Inf	31.36	3	Horizontal	190	1.51	-	73.24
AV	2.4642G	94.87	Inf	-Inf	31.36	3	Horizontal	190	1.51	-	63.51
PK	2.4846G	66.01	74.00	-7.99	31.40	3	Horizontal	190	1.51	-	34.61
AV	2.4838G	50.24	54.00	-3.76	31.39	3	Horizontal	190	1.51	-	18.85

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/11/2019



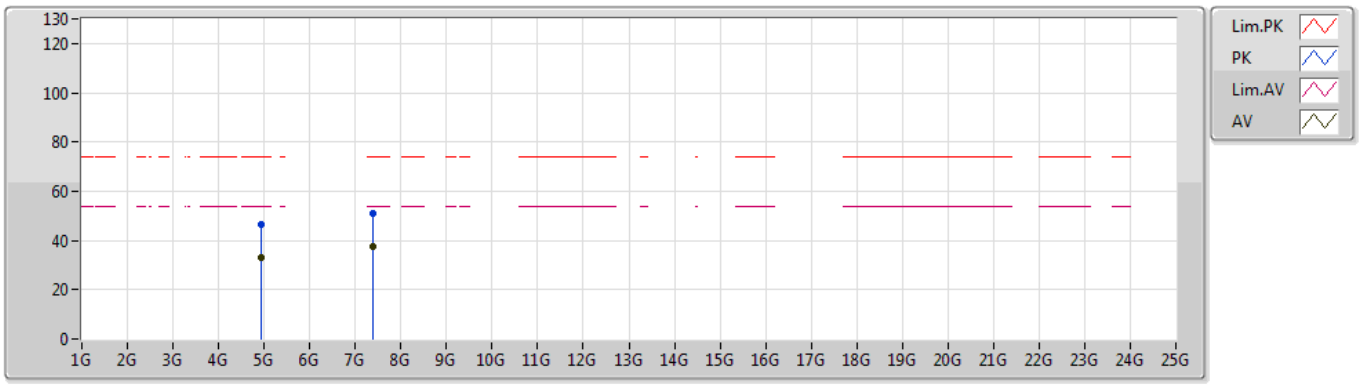
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.9247G	45.90	74.00	-28.10	7.40	3	Vertical	304	1.96	-	38.50
AV	4.927G	32.44	54.00	-21.56	7.42	3	Vertical	304	1.96	-	25.02
PK	7.3821G	52.68	74.00	-21.32	10.75	3	Vertical	207	1.03	-	41.93
AV	7.3865G	38.31	54.00	-15.69	10.76	3	Vertical	207	1.03	-	27.55

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

28/11/2019



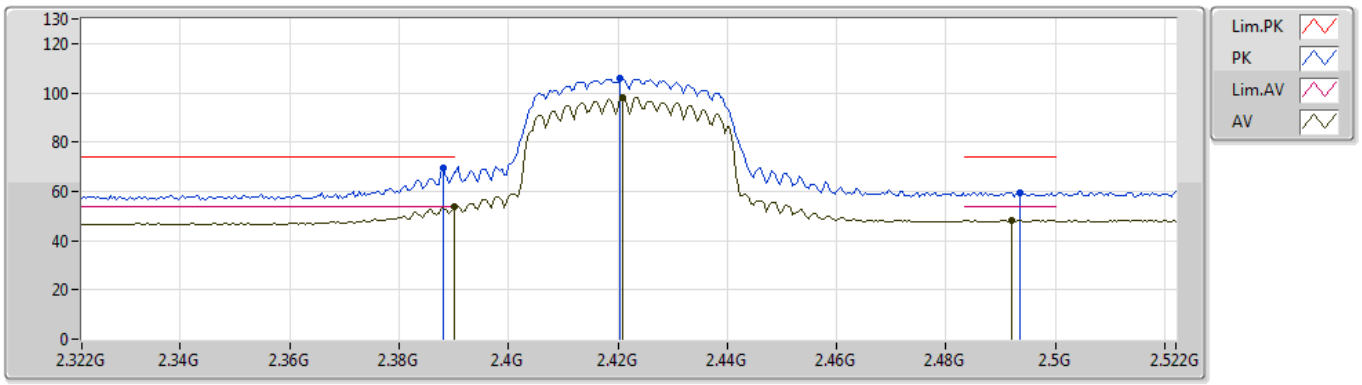
EUT Y_2TX
Setting 1A
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.9272G	46.72	74.00	-27.28	7.42	3	Horizontal	167	2.13	-	39.30
AV	4.9274G	33.16	54.00	-20.84	7.42	3	Horizontal	167	2.13	-	25.74
PK	7.3789G	51.07	74.00	-22.93	10.73	3	Horizontal	175	2.57	-	40.34
AV	7.3812G	37.27	54.00	-16.73	10.75	3	Horizontal	175	2.57	-	26.52

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/11/2019



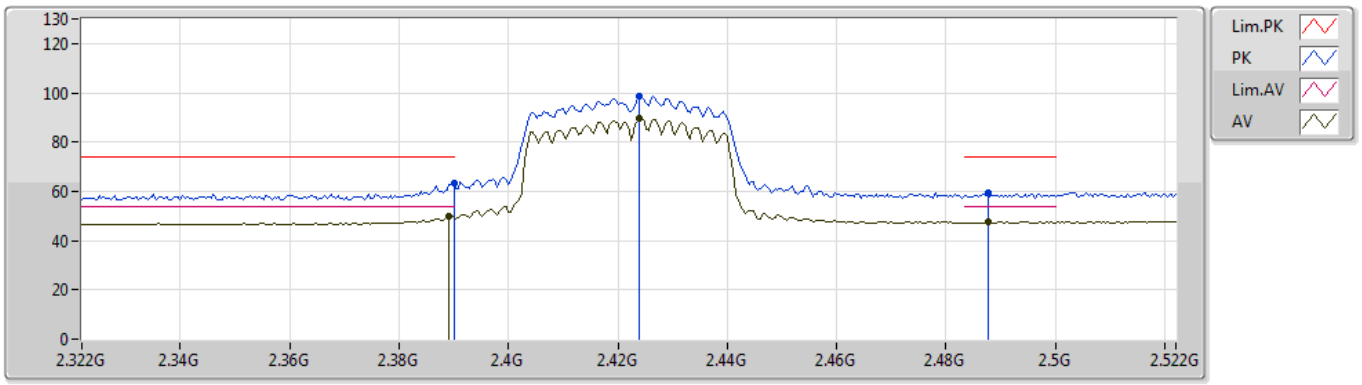
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.388G	69.67	74.00	-4.33	31.20	3	Vertical	0	2.53	-	38.47
AV	2.39G	53.97	54.00	-0.03	31.20	3	Vertical	0	2.53	-	22.77
PK	2.4204G	106.02	Inf	-Inf	31.27	3	Vertical	0	2.53	-	74.75
AV	2.4208G	98.33	Inf	-Inf	31.27	3	Vertical	0	2.53	-	67.06
PK	2.4936G	59.63	74.00	-14.37	31.42	3	Vertical	0	2.53	-	28.21
AV	2.492G	48.28	54.00	-5.72	31.42	3	Vertical	0	2.53	-	16.86

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/11/2019



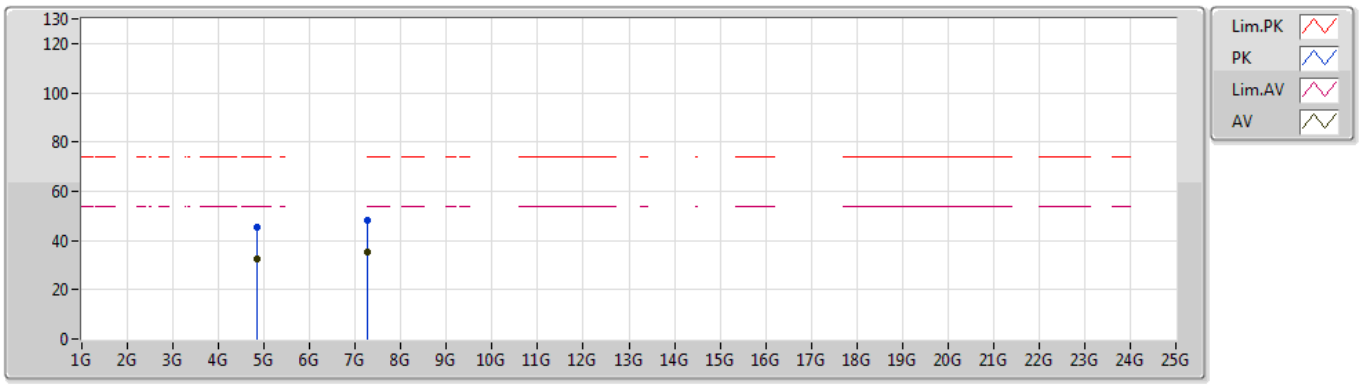
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.39G	63.50	74.00	-10.50	31.20	3	Horizontal	186	1.66	-	32.30
AV	2.3892G	49.74	54.00	-4.26	31.20	3	Horizontal	186	1.66	-	18.54
PK	2.424G	98.46	Inf	-Inf	31.28	3	Horizontal	186	1.66	-	67.18
AV	2.424G	89.43	Inf	-Inf	31.28	3	Horizontal	186	1.66	-	58.15
PK	2.4876G	59.28	74.00	-14.72	31.41	3	Horizontal	186	1.66	-	27.87
AV	2.4876G	47.68	54.00	-6.32	31.41	3	Horizontal	186	1.66	-	16.27

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/11/2019



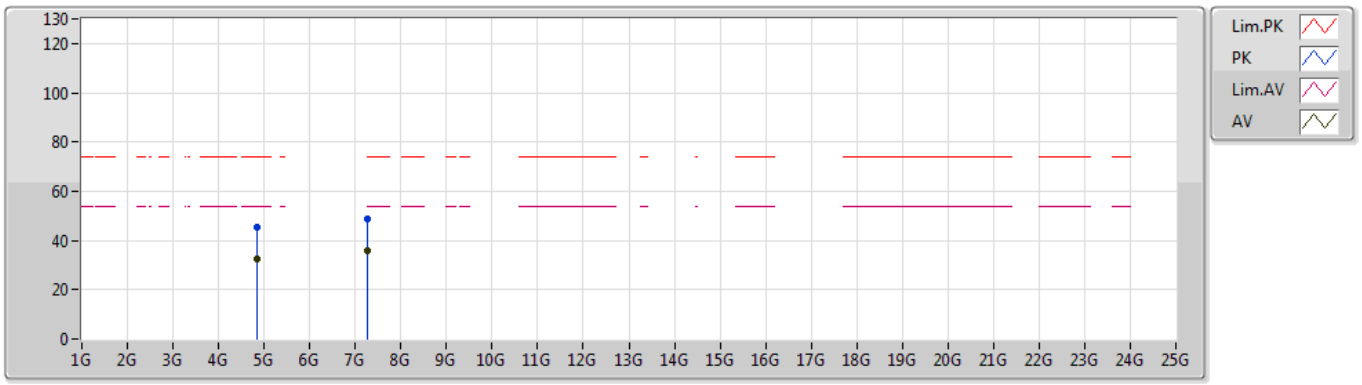
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.84154G	45.64	74.00	-28.36	7.21	3	Vertical	94	2.21	-	38.43
AV	4.84454G	32.36	54.00	-21.64	7.21	3	Vertical	94	2.21	-	25.15
PK	7.26298G	48.23	74.00	-25.77	10.40	3	Vertical	154	1.62	-	37.83
AV	7.2673G	35.58	54.00	-18.42	10.40	3	Vertical	154	1.62	-	25.18

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

28/11/2019



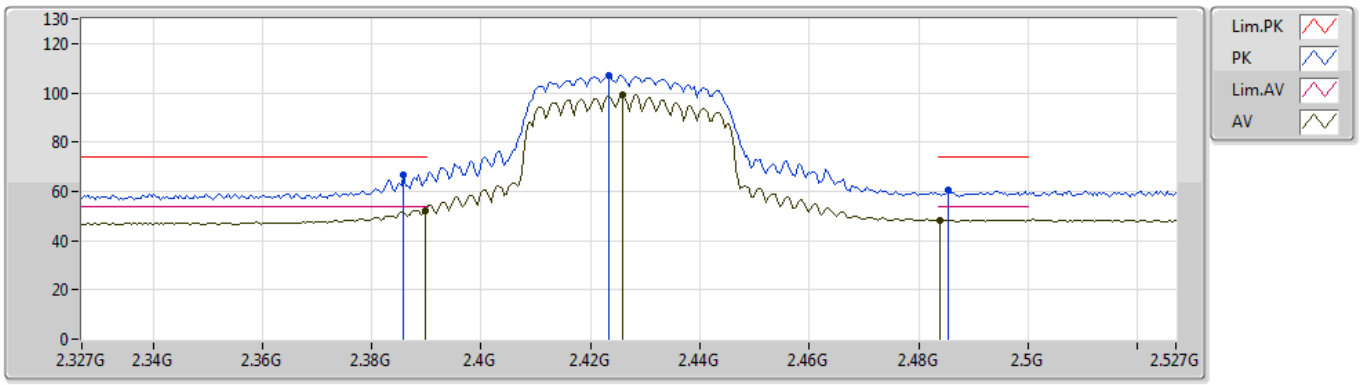
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.84774G	45.35	74.00	-28.65	7.22	3	Horizontal	169	2.10	-	38.13
AV	4.84038G	32.31	54.00	-21.69	7.21	3	Horizontal	169	2.10	-	25.10
PK	7.263G	48.67	74.00	-25.33	10.40	3	Horizontal	249	1.66	-	38.27
AV	7.26706G	35.59	54.00	-18.41	10.40	3	Horizontal	249	1.66	-	25.19

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

28/11/2019



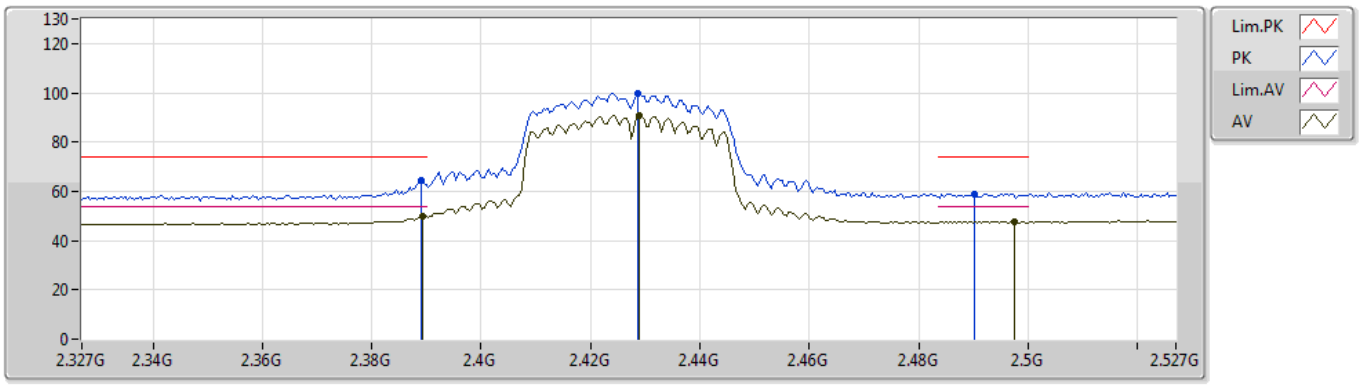
EUT Y_2TX
Setting 15
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3858G	66.88	74.00	-7.12	31.19	3	Vertical	355	2.49	-	35.69
AV	2.3898G	52.38	54.00	-1.62	31.20	3	Vertical	355	2.49	-	21.18
PK	2.4234G	106.95	Inf	-Inf	31.28	3	Vertical	355	2.49	-	75.67
AV	2.4258G	99.10	Inf	-Inf	31.28	3	Vertical	355	2.49	-	67.82
PK	2.4854G	60.54	74.00	-13.46	31.40	3	Vertical	355	2.49	-	29.14
AV	2.4838G	48.46	54.00	-5.54	31.39	3	Vertical	355	2.49	-	17.07

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

28/11/2019



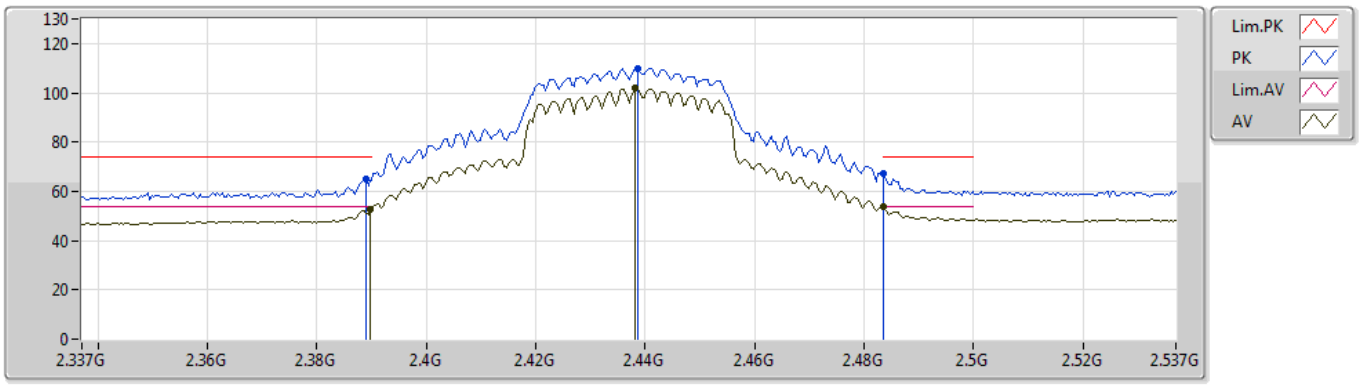
EUT Y_2TX
Setting 15
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	64.36	74.00	-9.64	31.20	3	Horizontal	195	1.65	-	33.16
AV	2.3894G	49.96	54.00	-4.04	31.20	3	Horizontal	195	1.65	-	18.76
PK	2.4286G	99.84	Inf	-Inf	31.29	3	Horizontal	195	1.65	-	68.55
AV	2.429G	90.74	Inf	-Inf	31.29	3	Horizontal	195	1.65	-	59.45
PK	2.4902G	59.08	74.00	-14.92	31.41	3	Horizontal	195	1.65	-	27.67
AV	2.4974G	47.86	54.00	-6.14	31.43	3	Horizontal	195	1.65	-	16.43

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



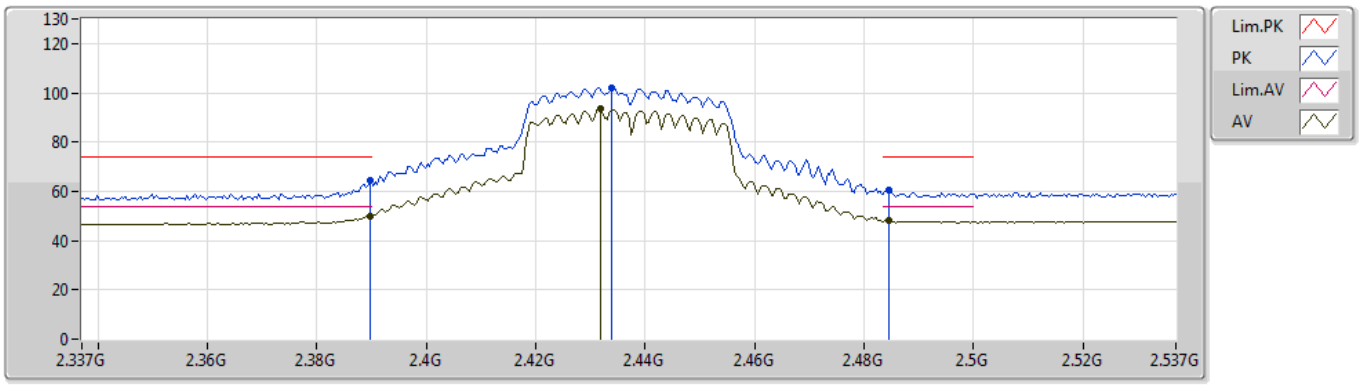
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	64.73	74.00	-9.27	31.20	3	Vertical	6	2.21	-	33.53
AV	2.3898G	52.50	54.00	-1.50	31.20	3	Vertical	6	2.21	-	21.30
PK	2.4386G	109.87	Inf	-Inf	31.31	3	Vertical	6	2.21	-	78.56
AV	2.4382G	102.15	Inf	-Inf	31.31	3	Vertical	6	2.21	-	70.84
PK	2.4835G	66.98	74.00	-7.02	31.39	3	Vertical	6	2.21	-	35.59
AV	2.4835G	53.59	54.00	-0.41	31.39	3	Vertical	6	2.21	-	22.20

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



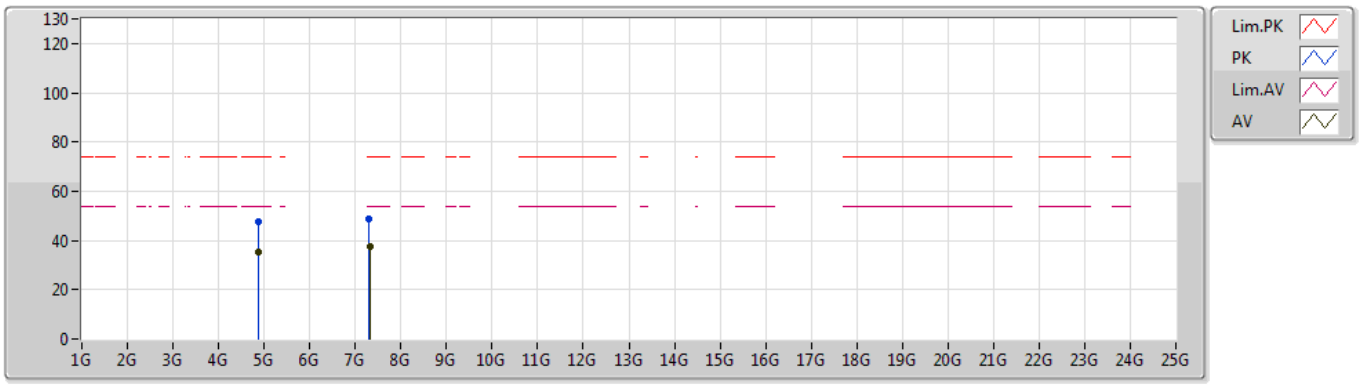
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	64.19	74.00	-9.81	31.20	3	Horizontal	195	1.62	-	32.99
AV	2.3898G	49.92	54.00	-4.08	31.20	3	Horizontal	195	1.62	-	18.72
PK	2.4338G	102.05	Inf	-Inf	31.29	3	Horizontal	195	1.62	-	70.76
AV	2.4318G	93.43	Inf	-Inf	31.29	3	Horizontal	195	1.62	-	62.14
PK	2.4846G	60.65	74.00	-13.35	31.40	3	Horizontal	195	1.62	-	29.25
AV	2.4846G	48.17	54.00	-5.83	31.40	3	Horizontal	195	1.62	-	16.77

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



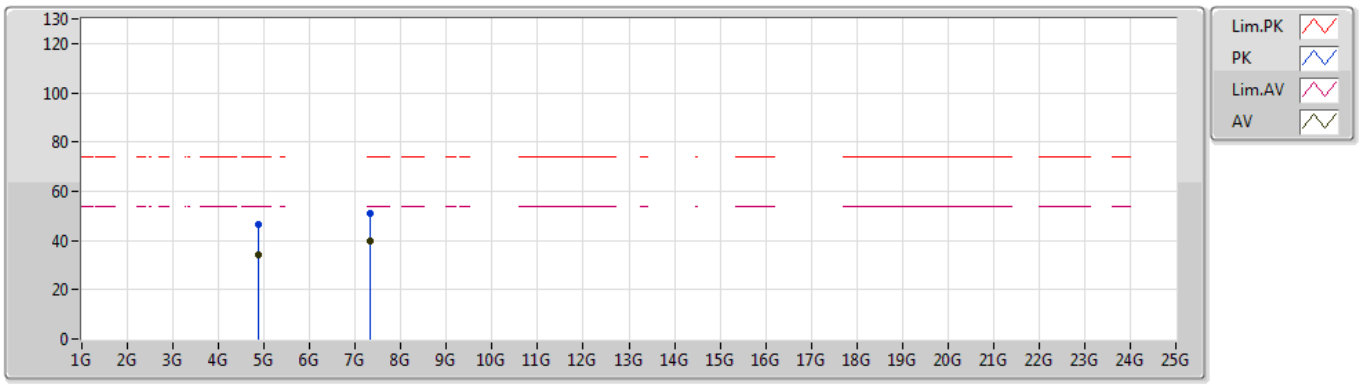
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8747G	47.85	74.00	-26.15	7.28	3	Vertical	181	2.94	-	40.57
AV	4.8747G	35.44	54.00	-18.56	7.28	3	Vertical	181	2.94	-	28.16
PK	7.3085G	48.73	74.00	-25.27	10.54	3	Vertical	160	2.56	-	38.19
AV	7.318G	37.58	54.00	-16.42	10.57	3	Vertical	160	2.56	-	27.01

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

28/11/2019



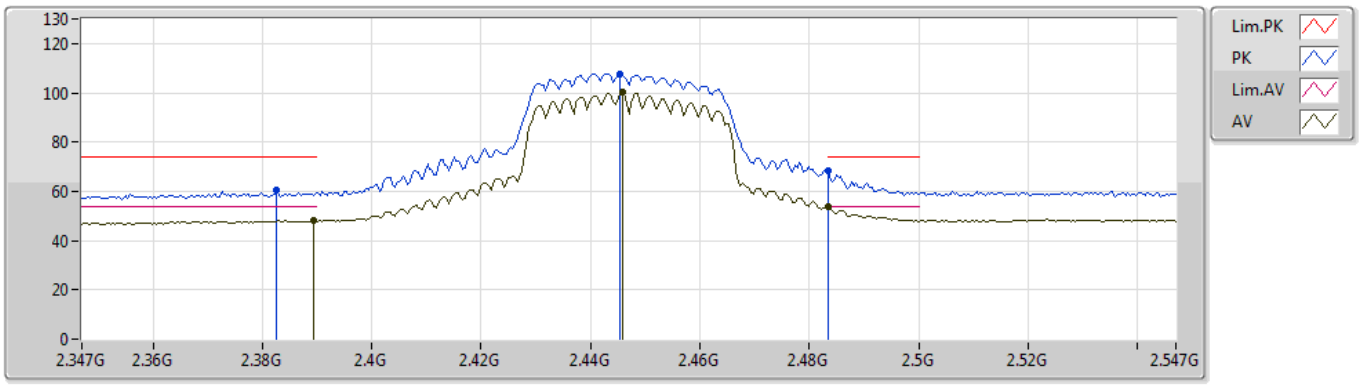
EUT Y_2TX
Setting 1B
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.875G	46.39	74.00	-27.61	7.29	3	Horizontal	76	1.94	-	39.10
AV	4.8672G	34.03	54.00	-19.97	7.27	3	Horizontal	76	1.94	-	26.76
PK	7.3116G	51.16	74.00	-22.84	10.55	3	Horizontal	268	1.89	-	40.61
AV	7.3142G	39.83	54.00	-14.17	10.56	3	Horizontal	268	1.89	-	29.27

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

28/11/2019



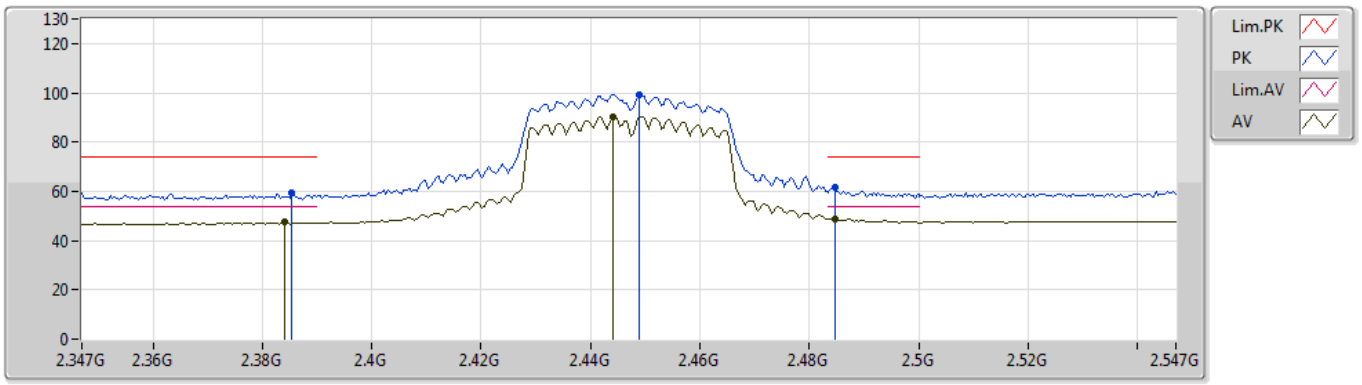
EUT Y_2TX
Setting 15
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3826G	60.51	74.00	-13.49	31.19	3	Vertical	173	2.74	-	29.32
AV	2.3894G	48.05	54.00	-5.95	31.20	3	Vertical	173	2.74	-	16.85
PK	2.4454G	107.82	Inf	-Inf	31.32	3	Vertical	173	2.74	-	76.50
AV	2.4458G	100.14	Inf	-Inf	31.32	3	Vertical	173	2.74	-	68.82
PK	2.4835G	68.50	74.00	-5.50	31.39	3	Vertical	173	2.74	-	37.11
AV	2.4835G	53.71	54.00	-0.29	31.39	3	Vertical	173	2.74	-	22.32

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

28/11/2019



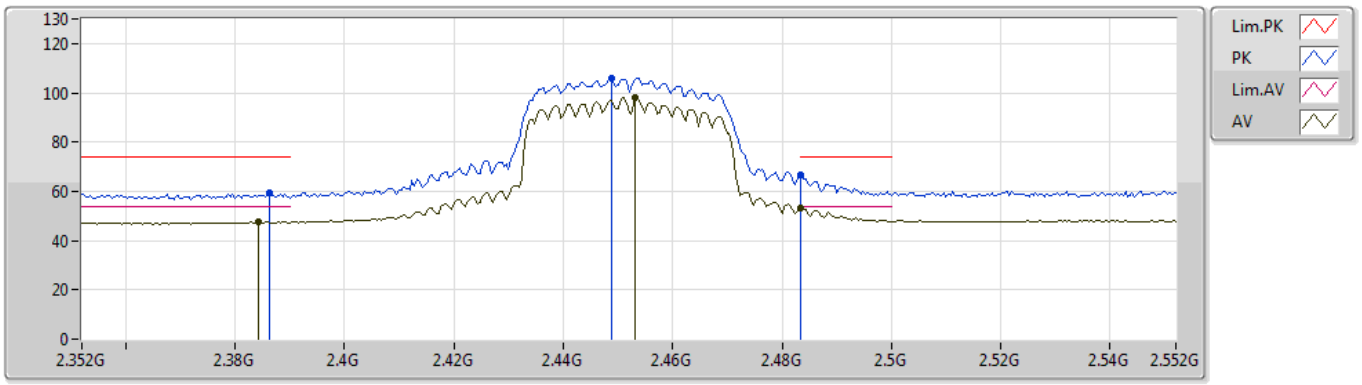
EUT Y_2TX
Setting 15
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3854G	59.17	74.00	-14.83	31.19	3	Horizontal	184	1.46	-	27.98
AV	2.3842G	47.35	54.00	-6.65	31.19	3	Horizontal	184	1.46	-	16.16
PK	2.449G	99.20	Inf	-Inf	31.33	3	Horizontal	184	1.46	-	67.87
AV	2.4442G	90.27	Inf	-Inf	31.32	3	Horizontal	184	1.46	-	58.95
PK	2.4846G	61.43	74.00	-12.57	31.40	3	Horizontal	184	1.46	-	30.03
AV	2.4846G	48.83	54.00	-5.17	31.40	3	Horizontal	184	1.46	-	17.43

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/11/2019



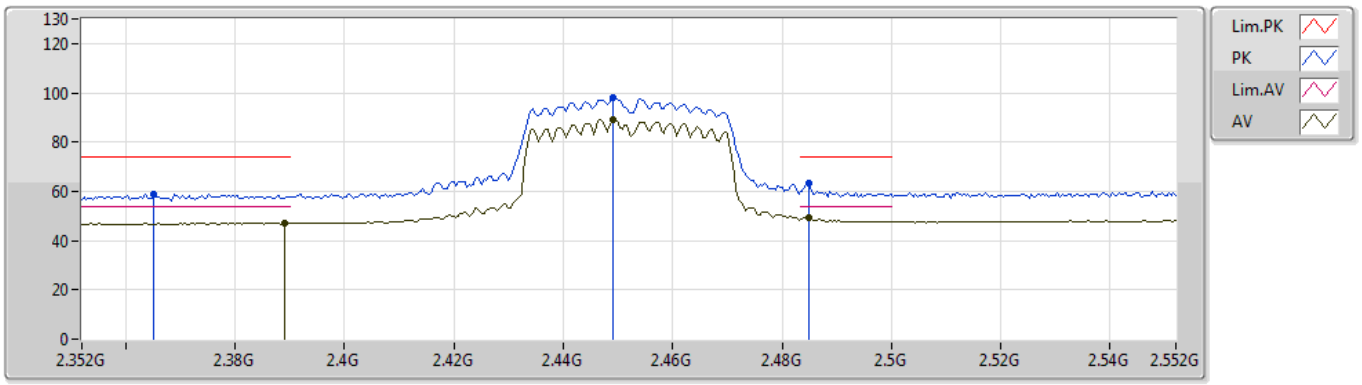
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3864G	59.49	74.00	-14.51	31.20	3	Vertical	140	2.99	-	28.29
AV	2.3844G	47.61	54.00	-6.39	31.19	3	Vertical	140	2.99	-	16.42
PK	2.4488G	105.83	Inf	-Inf	31.33	3	Vertical	140	2.99	-	74.50
AV	2.4532G	97.94	Inf	-Inf	31.34	3	Vertical	140	2.99	-	66.60
PK	2.4835G	66.87	74.00	-7.13	31.39	3	Vertical	140	2.99	-	35.48
AV	2.4835G	53.29	54.00	-0.71	31.39	3	Vertical	140	2.99	-	21.90

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/11/2019



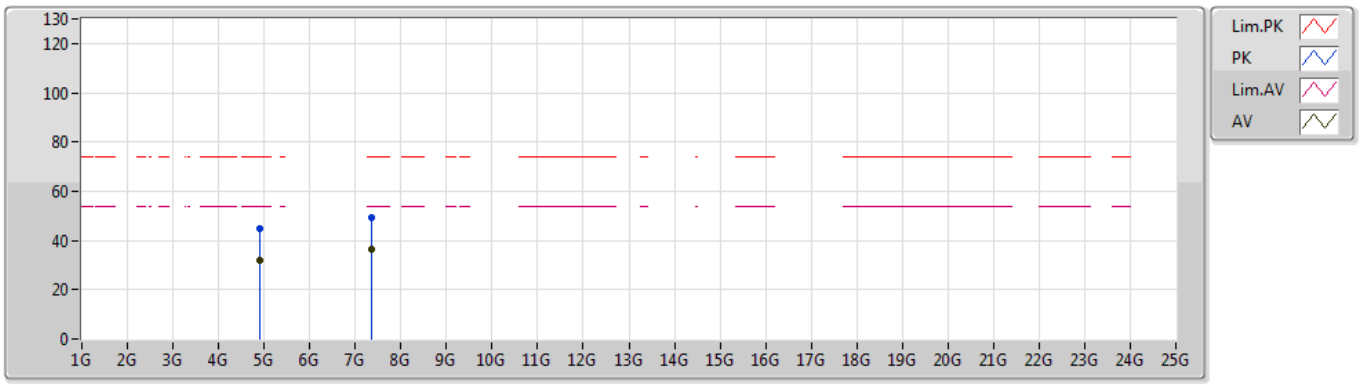
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3652G	59.07	74.00	-14.93	31.15	3	Horizontal	195	1.48	-	27.92
AV	2.3892G	47.28	54.00	-6.72	31.20	3	Horizontal	195	1.48	-	16.08
PK	2.4492G	98.08	Inf	-Inf	31.33	3	Horizontal	195	1.48	-	66.75
AV	2.4492G	88.99	Inf	-Inf	31.33	3	Horizontal	195	1.48	-	57.66
PK	2.4848G	63.48	74.00	-10.52	31.40	3	Horizontal	195	1.48	-	32.08
AV	2.4848G	49.09	54.00	-4.91	31.40	3	Horizontal	195	1.48	-	17.69

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/11/2019



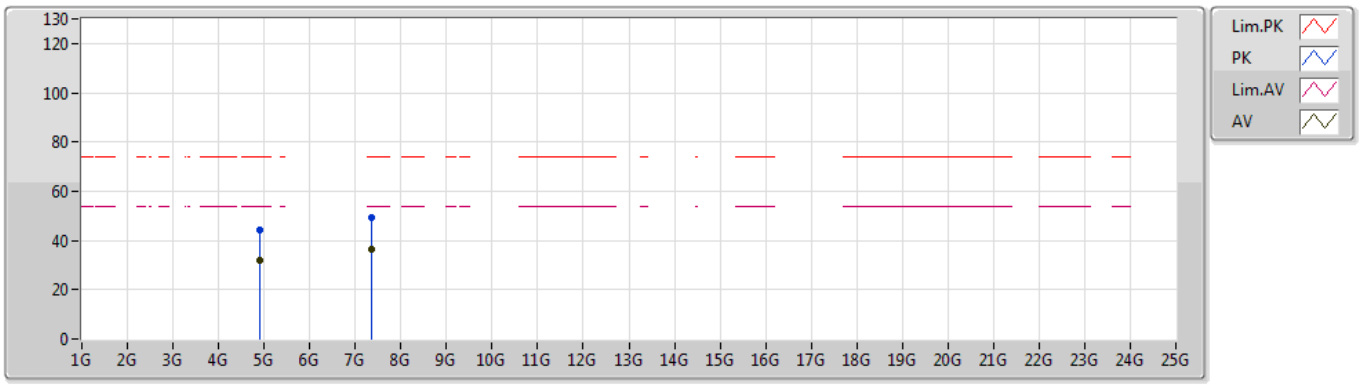
EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90672G	44.82	74.00	-29.18	7.36	3	Vertical	34	2.35	-	37.46
AV	4.9002G	31.91	54.00	-22.09	7.35	3	Vertical	34	2.35	-	24.56
PK	7.35714G	49.48	74.00	-24.52	10.69	3	Vertical	94	2.13	-	38.79
AV	7.35768G	36.36	54.00	-17.64	10.69	3	Vertical	94	2.13	-	25.67

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

28/11/2019



EUT Y_2TX
Setting 12
02-B-P-2

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90728G	44.52	74.00	-29.48	7.36	3	Horizontal	243	1.83	-	37.16
AV	4.90064G	32.08	54.00	-21.92	7.35	3	Horizontal	243	1.83	-	24.73
PK	7.3532G	49.26	74.00	-24.74	10.67	3	Horizontal	325	2.33	-	38.59
AV	7.36092G	36.56	54.00	-17.44	10.68	3	Horizontal	325	2.33	-	25.88