



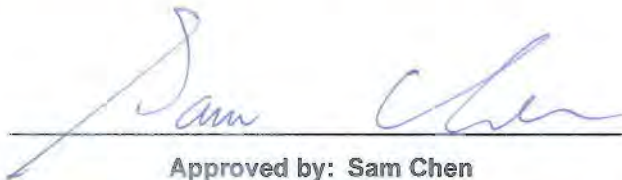
FCC RADIO TEST REPORT

FCC ID : S9GR650
Equipment : R650 Access Point
Brand Name : Ruckus
Model Name : R650
Applicant : Ruckus Wireless, Inc.
350 West Java Drive, Sunnyvale , California 94089
United States
Manufacturer : Ruckus Wireless, Inc.
350 West Java Drive, Sunnyvale , California 94089
United States
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 11, 2019, and testing was started from Sep. 14, 2019 and completed on Nov. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Sam Chen

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



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Photographs of EUT v01



Summary of Test Result

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

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	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	VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.



1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Ant. Type	Connector	Ant. Gain (dBi)			
	WLAN		BT	Zigbee					WLAN		BT	Zigbee
	2.4GHz	5GHz							2.4GHz	5GHz		
1	1	-	-	-	Ruckus	KAUS	PCB	I-PEX	2.3	-	-	-
2	2	-	-	-	Ruckus	HERSCHEL	PCB	I-PEX	2.3	-	-	-
3	-	1	-	-	Ruckus	PIFA5G	Metal	I-PEX	-	2	-	-
4	-	2	-	-	Ruckus	QUASAR	PCB	I-PEX	-	2	-	-
5	-	3	-	-	Ruckus	SADAL	PCB	I-PEX	-	2	-	-
6	-	4	-	-	Ruckus	CORZAR	PCB	I-PEX	-	2	-	-
7	-	-	1	-	Ruckus	BLE	Metal	I-PEX	-	-	1.4	-
8	-	-	-	1	Ruckus	ZIGBEE	Metal	I-PEX	-	-	-	1.4

Note 1:

WLAN 2.4GHz and 5GHz antenna configuration:

Ant.	Polarity				Array Gain (dBi)	
	2.4GHz		5GHz		2.4GHz	5GHz
	Vertical	Horizontal	Vertical	Horizontal		
1	V	-	-	-	0	-
2	-	V	-	-		-
3	-	-	V	-	3.01	3.01
4	-	-	-	V		
5	-	-	-	V		
6	-	-	V	-		

Note 2: The above information was declared by manufacturer.

For 2.4GHz function:

For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11a/n/ac/ax (4TX/4RX):

Port 1, Port 2, Pot 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously.

For Bluetooth function:

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

For Zigbee function:

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



1.1.3 Mode Test Duty Cycle

RU(100%):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.706	1.51	667.5u	3k
802.11g	0.943	0.25	1.978m	1k
VHT20	0.941	0.26	5.432m	300
VHT40	0.963	0.16	5.43m	300
802.11ax HEW20	0.966	0.15	5.452m	300
802.11ax HEW40	0.951	0.22	5.454m	300

RU (20M: 66% / 40M: 60%):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20	0.954	0.2	3.862m	300
802.11ax HEW40	0.901	0.45	2.657m	1k

RU (20M: 56% / 40M: 56%):

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11ax HEW20	0.828	0.82	1.395m	1k
802.11ax HEW40	0.895	0.48	1.967m	1k

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/ac/ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	4.0.00123			

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Jeff Wu	22.4-23.8°C / 49-54%	Sep. 16, 2019~ Nov. 14, 2019
Radiated (Below 1GHz)	03CH05-CB	KJ Chang	23.2-25.4°C / 51-54%	Sep. 14, 2019~ Nov. 08, 2019
Radiated (Above 1GHz)	03CH01-CB	KJ Chang	24.8-27°C / 59-60%	Sep. 14, 2019~ Nov. 08, 2019
AC Conduction	CO01-CB	Rick Yeh	24~25°C / 45~46%	Oct. 17, 2019 ~ Nov. 11, 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

RU(100%):

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	23
2437MHz	23
2462MHz	22
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	21
2437MHz	22
2457MHz	22
2462MHz	17.5
VHT20_Nss1,(MCS0)_2TX	-
2412MHz	20
2437MHz	22
2457MHz	21
2462MHz	16
VHT40_Nss1,(MCS0)_2TX	-
2422MHz	19
2437MHz	19.5
2452MHz	17.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	20
2437MHz	22
2457MHz	21
2462MHz	16
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	19
2437MHz	19.5
2452MHz	17.5



RU (20M: 66% / 40M: 60%):

Mode	PowerSetting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	17.5
2437MHz	19
2457MHz	17.5
2462MHz	13
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	17
2427MHz	17
2437MHz	16.5
2447MHz	14.5
2452MHz	14.5

RU (20M: 56% / 40M: 56%):

Mode	PowerSetting
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	19
2437MHz	20.5
2457MHz	20
2462MHz	14.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	17.5
2427MHz	17.5
2437MHz	17
2447MHz	14.5
2452MHz	15

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	2.4GHz + Adapter
2	2.4GHz + PoE
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 ~ 5 will follow this same test mode.	
3	5GHz + Adapter
4	Bluetooth + Adapter
5	Zigbee + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

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



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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth + Zigbee
Refer to Sporton Test Report No.: FA980216 for Co-location RF Exposure Evaluation.	

Note 1: The EUT can only be used at Y axis position.

Note 2: The PoE and Adapter below are for measurement only, would not be marketed.

Power	Brand	Model No.
Adapter	Ruckus	740-64277-001
PoE	Ruckus	740-64216-001

Note 3: The RU100 performed all test items, but the others RU performed the test item "Output Power and Power Spectral Density" only.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	LAN NB	DELL	E6430	N/A
C	Adapter	Ruckus	740-64277-001	N/A

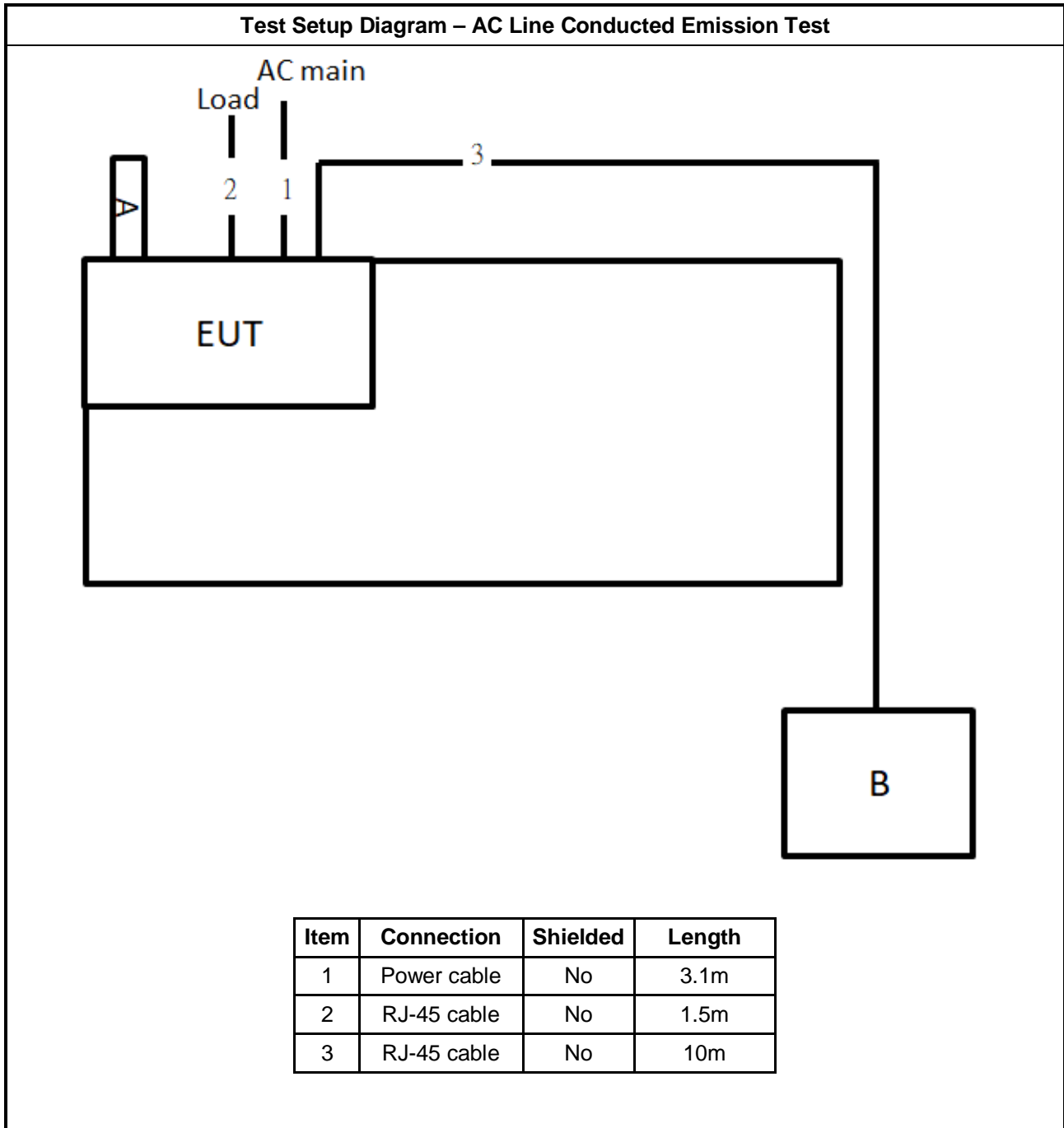
For Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Ruckus	740-64216-001	N/A

For RF Conducted:

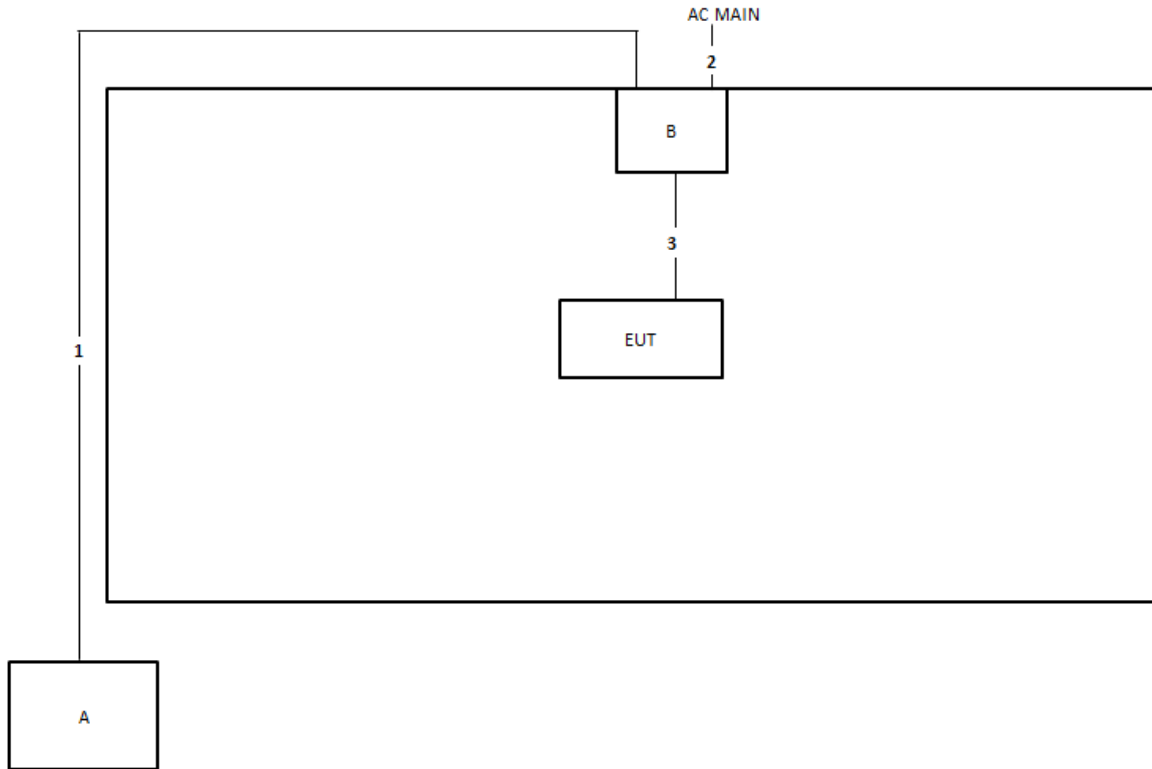
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Adapter	Ruckus	740-64277-001	N/A

2.6 Test Setup Diagram





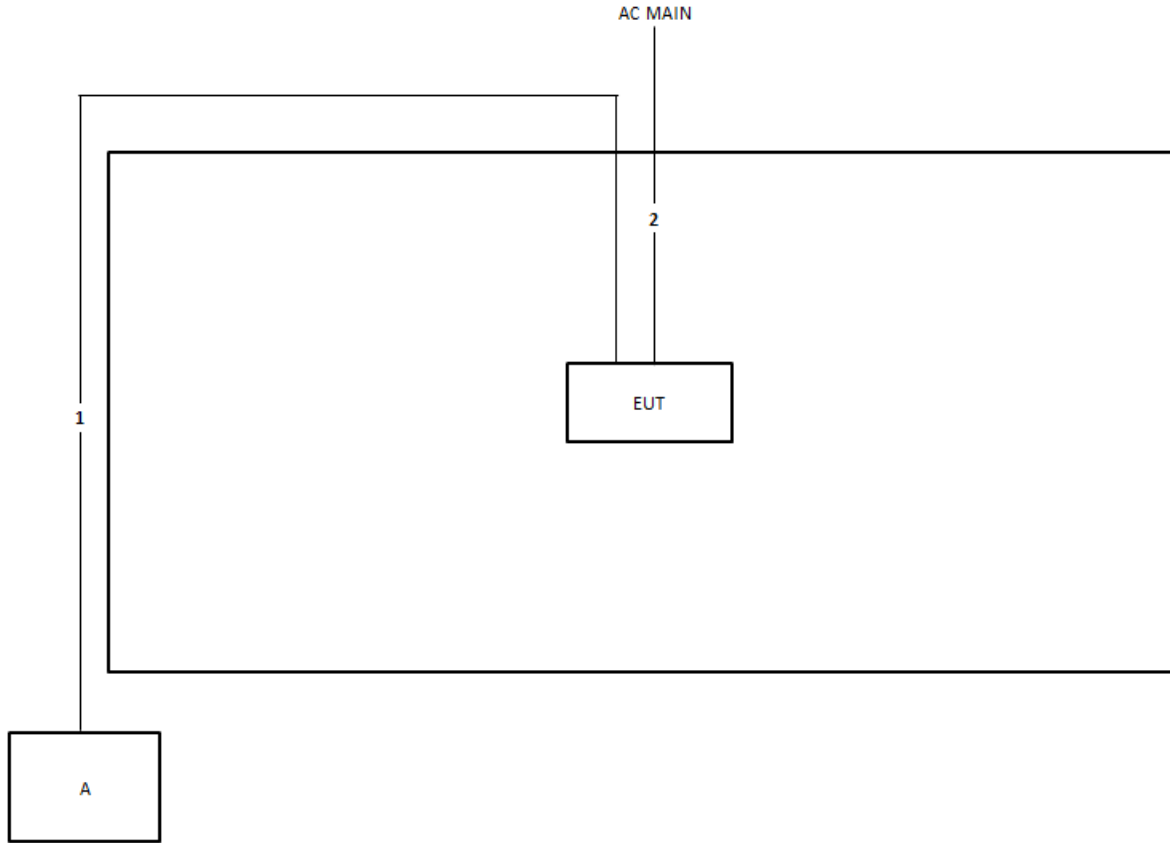
Test Setup Diagram - Radiated Test < 1GHz



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



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	3.1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

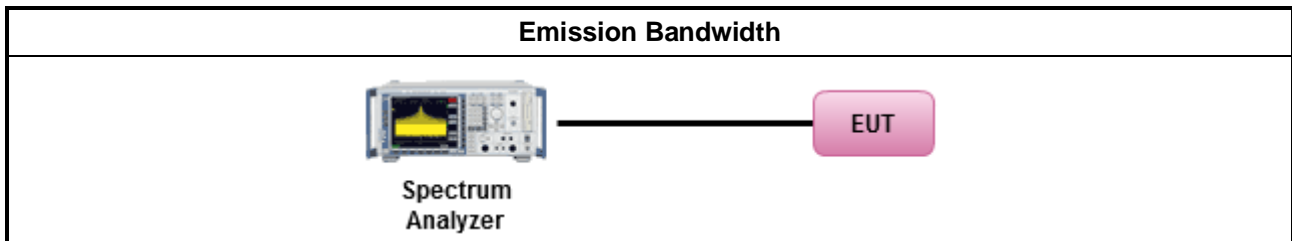
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none">▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none">▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none">▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">▪ Smart antenna system (SAS):
	<ul style="list-style-type: none">- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none">- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

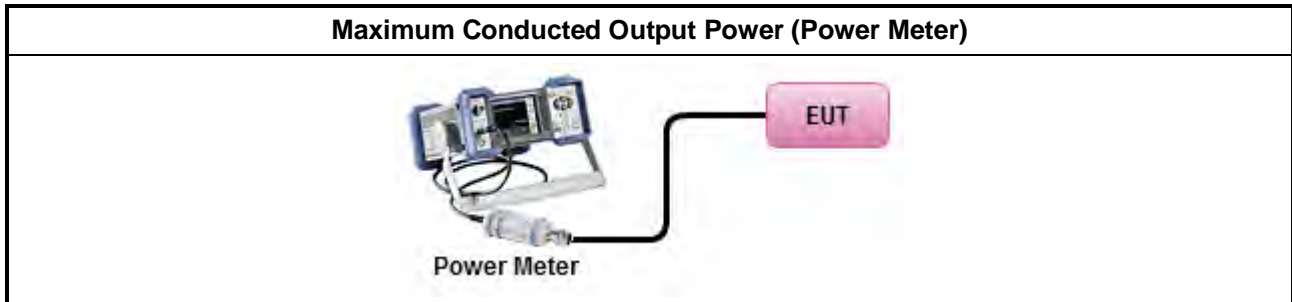
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

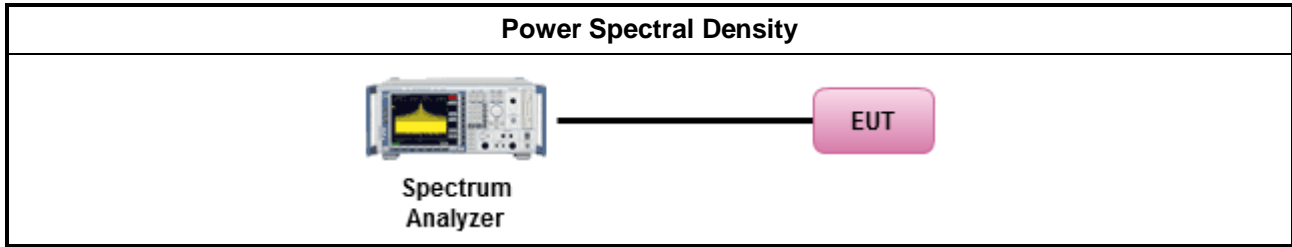
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle ≥ 98% or external video / power trigger]
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-3.
duty cycle < 98% and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPSD-1A. (alternative).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPSD-3A. (alternative)
<ul style="list-style-type: none"> ▪ For conducted measurement.
<ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below:
<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

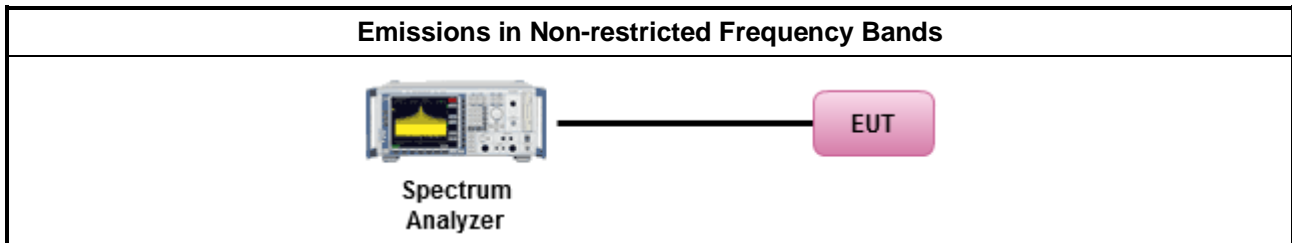
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

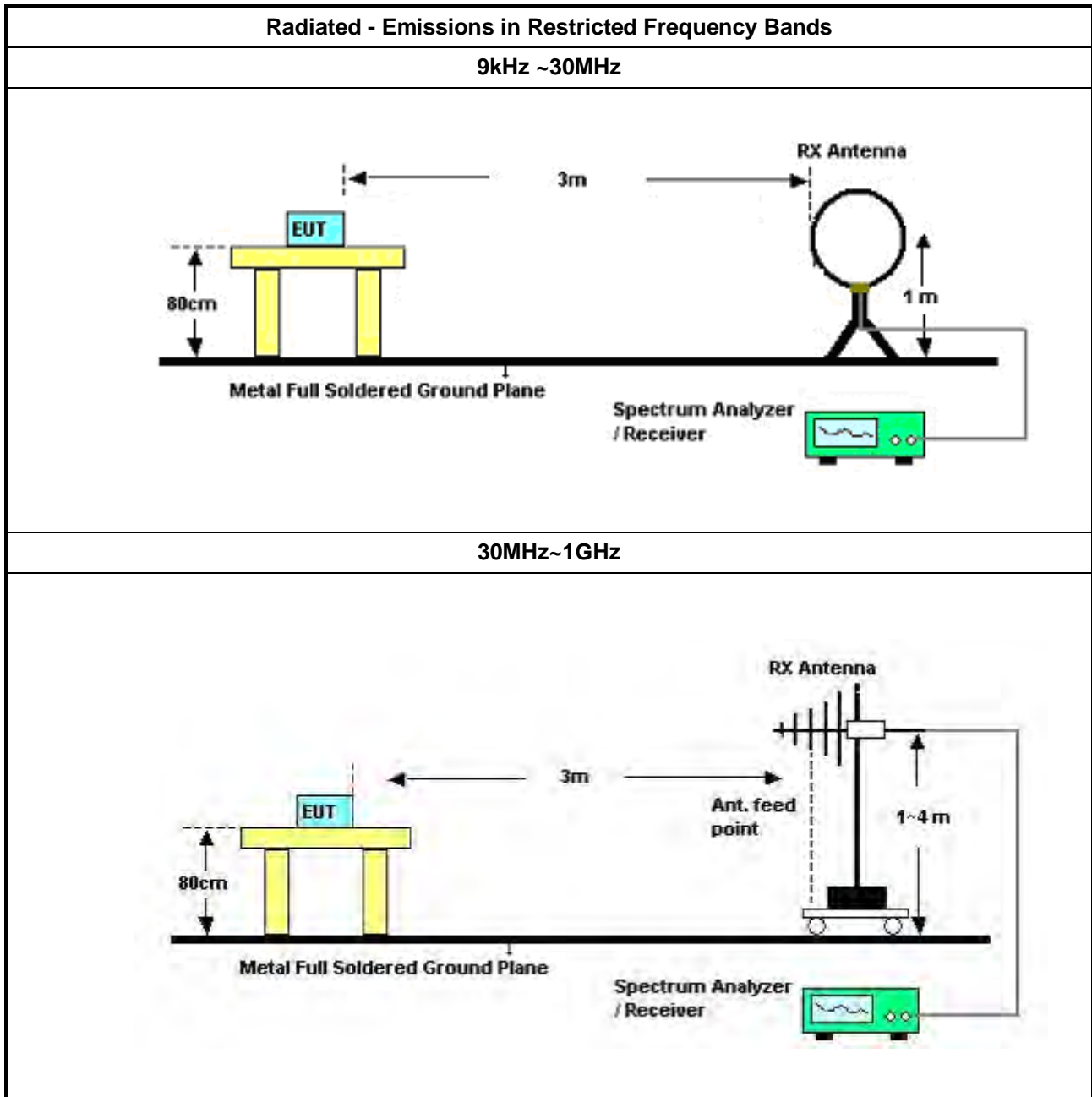
Refer a test equipment and calibration data table in this test report.

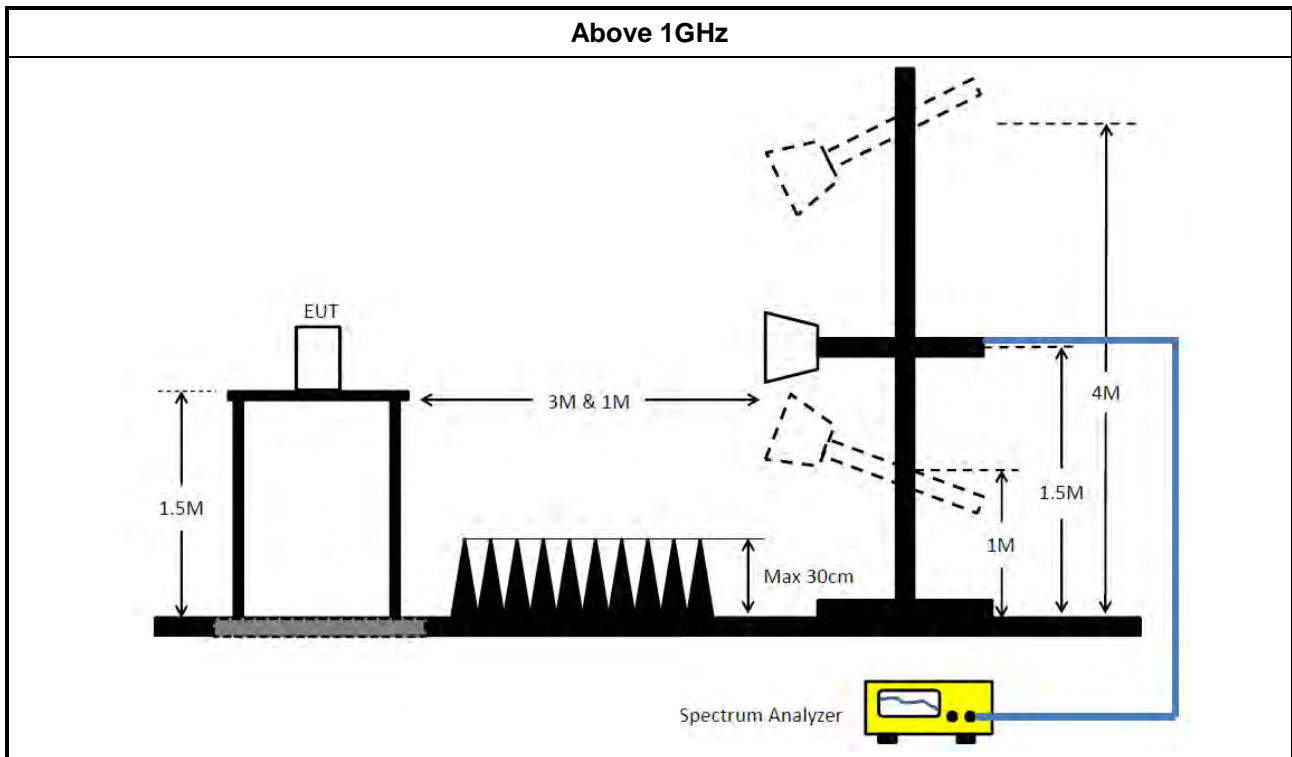


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands. <ul style="list-style-type: none"> <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%). <input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor). <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T). <input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. <input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit. 	
<ul style="list-style-type: none"> For the transmitter band-edge emissions shall be measured using following options below: <ul style="list-style-type: none"> Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below. 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). 	
<ul style="list-style-type: none"> For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: <ol style="list-style-type: none"> Measure and sum the spectra across the outputs or Measure and add 10 log(N) dB For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred. 	

3.6.4 Test Setup





3.6.5 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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
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 02, 2019	May 01, 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. 08, 2018	Oct. 07, 2019	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	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGRE N	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-H G	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	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. 08, 2018	Oct. 07, 2019	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)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz ~26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

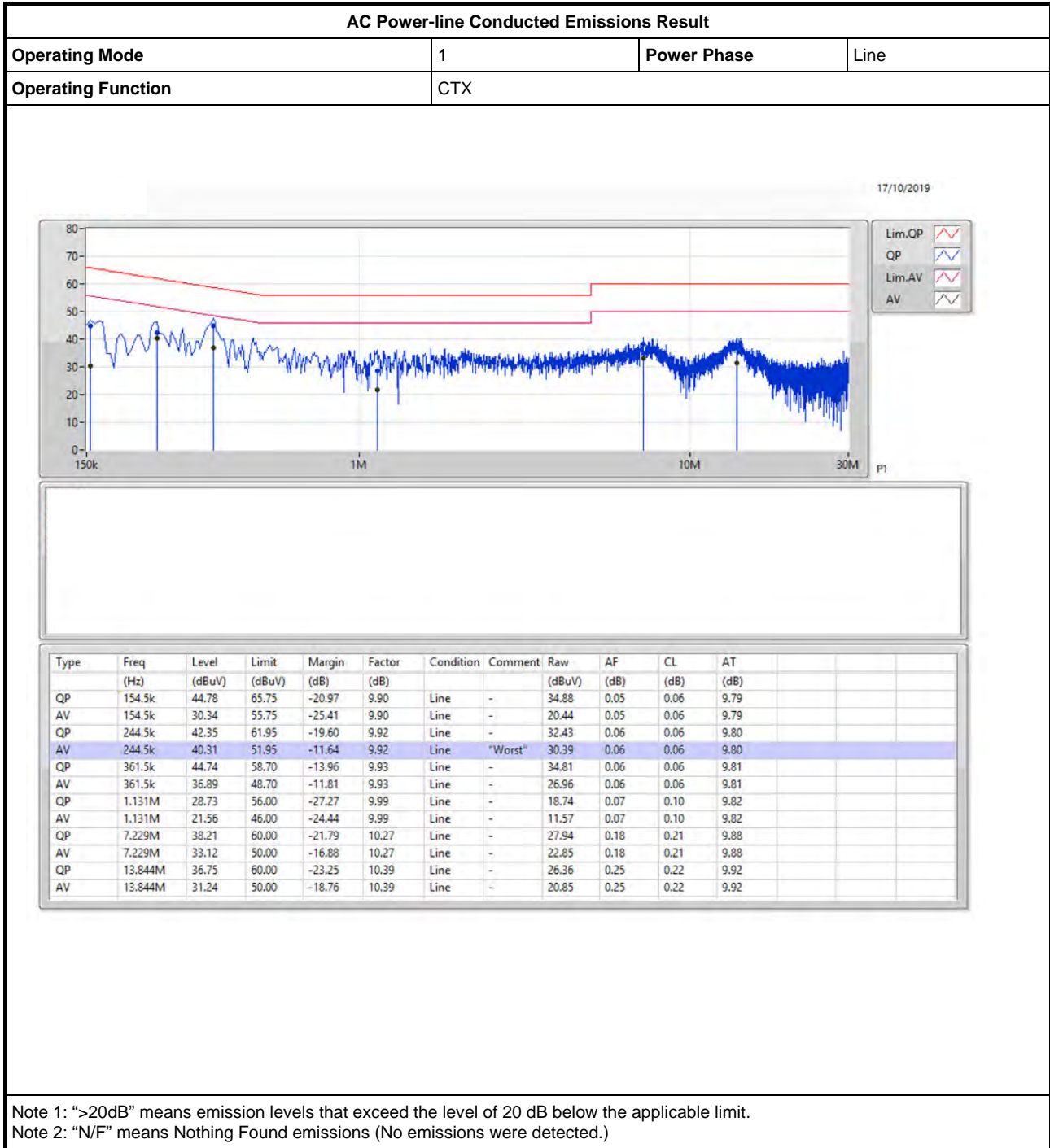
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

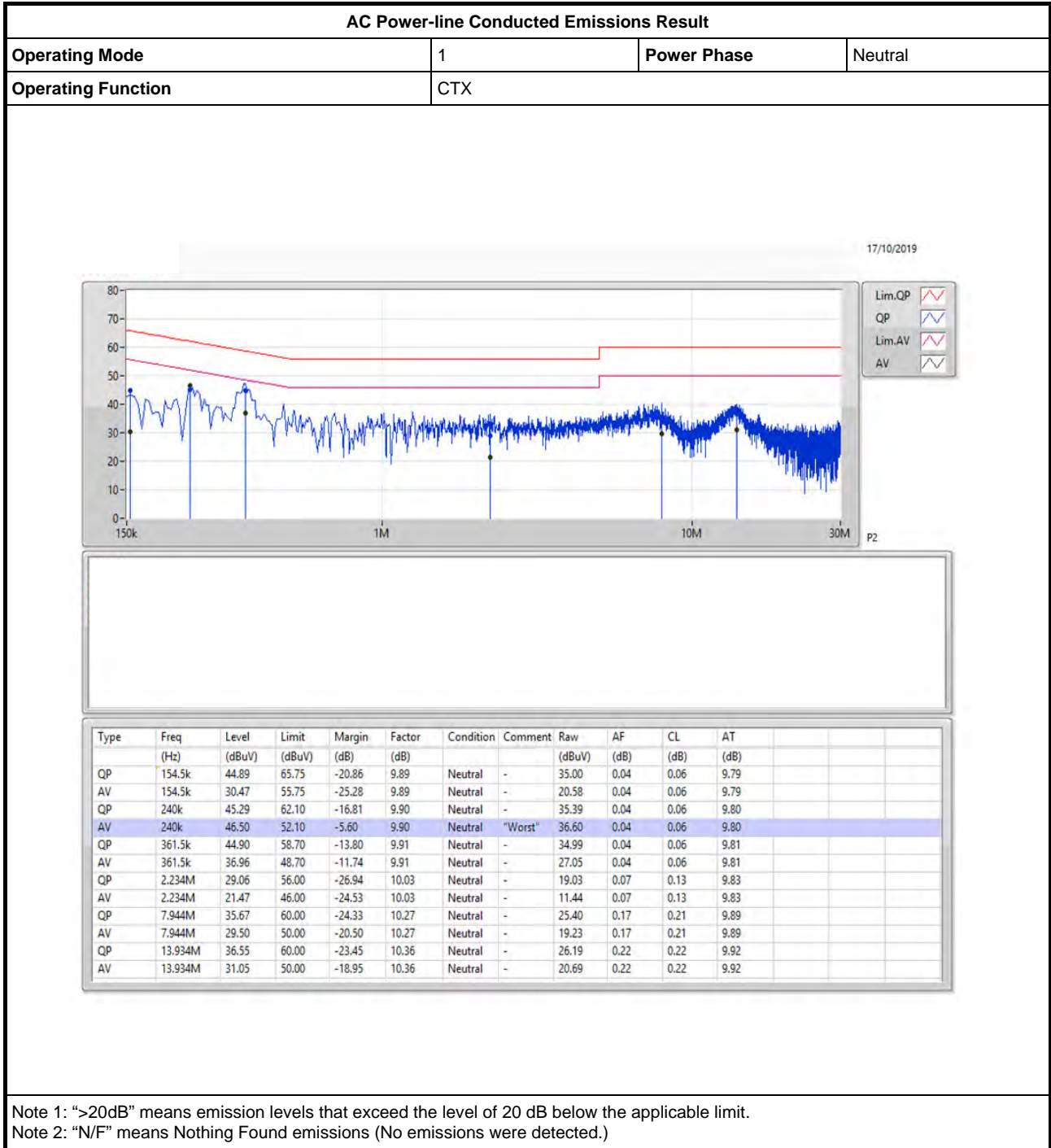
Appendix A





AC Power-line Conducted Emissions Result

Appendix A





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.55M	14.343M	14M3G1D	7.575M	12.794M
802.11g_Nss1,(6Mbps)_2TX	16.4M	16.542M	16M5D1D	15.625M	16.367M
VHT20_Nss1,(MCS0)_2TX	17.55M	17.741M	17M7D1D	15.125M	17.566M
VHT40_Nss1,(MCS0)_2TX	35.6M	36.132M	36M1D1D	33.4M	35.932M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.925M	19.015M	19MOD1D	18.575M	18.866M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.7M	37.781M	37M8D1D	34.85M	37.581M

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	8M	13.218M	7.575M	12.919M
2437MHz	Pass	500k	8M	13.443M	8M	12.994M
2462MHz	Pass	500k	8.55M	14.343M	7.975M	12.794M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.625M	16.392M	16.325M	16.417M
2437MHz	Pass	500k	15.675M	16.542M	16.4M	16.417M
2462MHz	Pass	500k	15.725M	16.467M	15.975M	16.367M
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.375M	17.591M	17.55M	17.616M
2437MHz	Pass	500k	17.375M	17.741M	17.55M	17.666M
2462MHz	Pass	500k	15.125M	17.641M	16.65M	17.566M
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.35M	36.082M	35.6M	36.132M
2437MHz	Pass	500k	35.5M	36.082M	34.9M	36.132M
2452MHz	Pass	500k	34.5M	35.932M	33.4M	36.032M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.6M	18.941M	18.65M	18.941M
2437MHz	Pass	500k	18.85M	19.015M	18.925M	18.941M
2462MHz	Pass	500k	18.575M	18.966M	18.575M	18.866M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.7M	37.781M	37.6M	37.681M
2437MHz	Pass	500k	36.85M	37.731M	37.05M	37.781M
2452MHz	Pass	500k	34.85M	37.581M	35.95M	37.681M

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

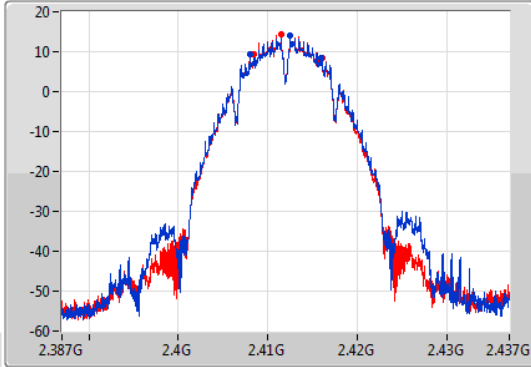
802.11b_Nss1,(1Mbps)_2TX

EBW

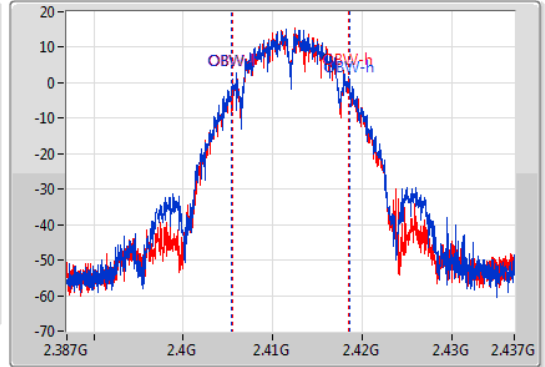
2412MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8M	2.408025G	2.416025G	13.218M	2.405428G	2.418647G	500k	1
7.575M	2.408475G	2.41605G	12.919M	2.405578G	2.418497G	500k	2

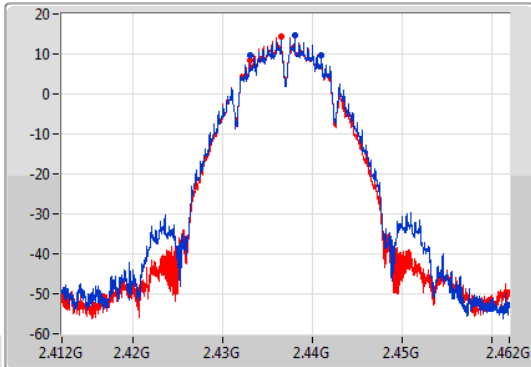
802.11b_Nss1,(1Mbps)_2TX

EBW

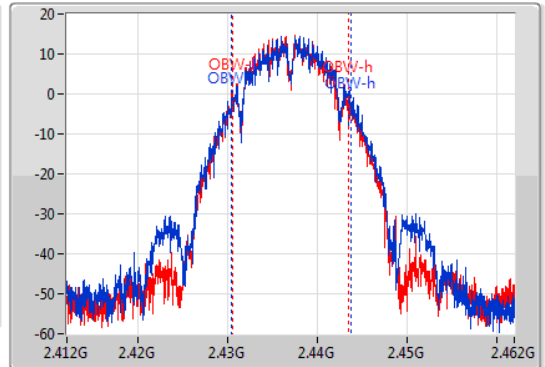
2437MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8M	2.433G	2.441G	13.443M	2.430378G	2.443822G	500k	1
8M	2.433G	2.441G	12.994M	2.430478G	2.443472G	500k	2

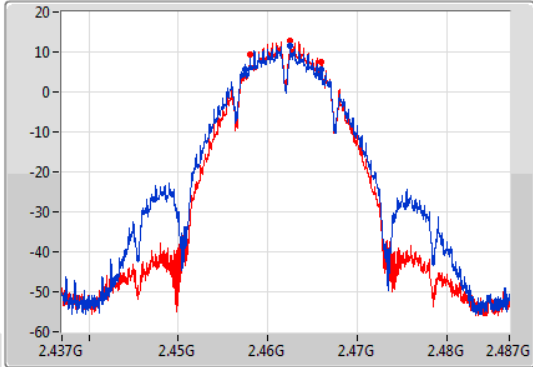
802.11b_Nss1,(1Mbps)_2TX

EBW

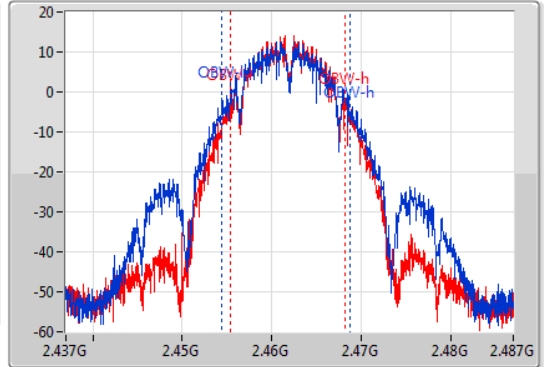
2462MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.55M	2.45745G	2.466G	14.343M	2.454479G	2.468822G	500k	1
7.975M	2.458G	2.465975G	12.794M	2.455453G	2.468247G	500k	2

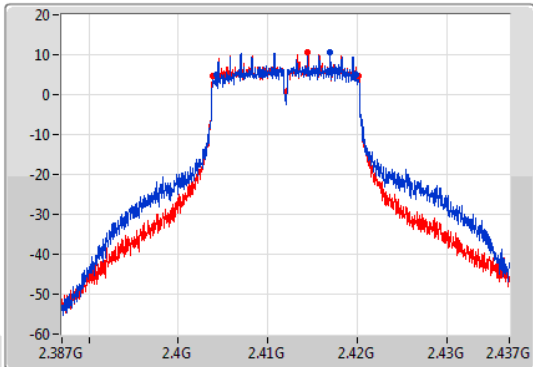
802.11g_Nss1,(6Mbps)_2TX

EBW

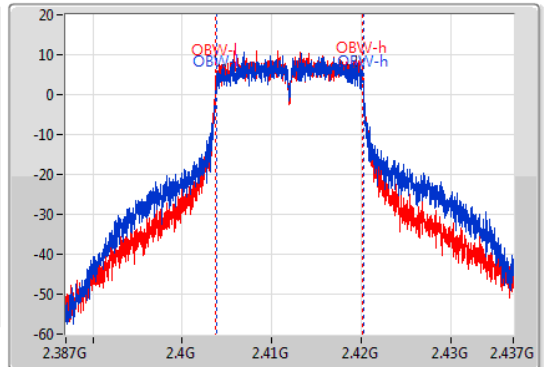
2412MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.625M	2.404225G	2.41985G	16.392M	2.403829G	2.420221G	500k	1
16.325M	2.40385G	2.420175G	16.417M	2.403779G	2.420196G	500k	2

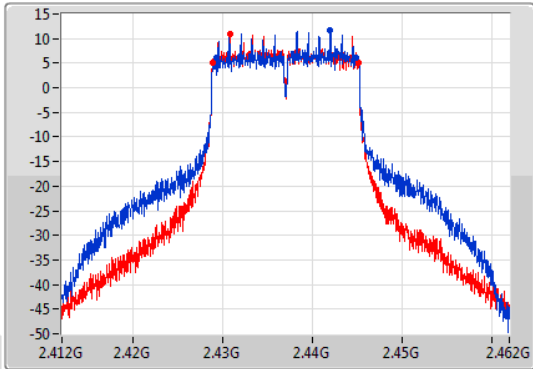
802.11g_Nss1,(6Mbps)_2TX

EBW

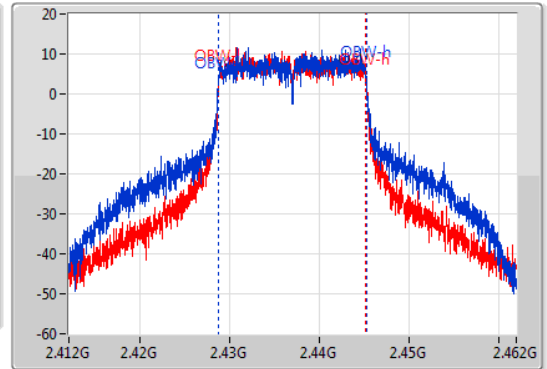
2437MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.675M	2.429225G	2.4449G	16.542M	2.428729G	2.445271G	500k	1
16.4M	2.4288G	2.4452G	16.417M	2.428779G	2.445196G	500k	2

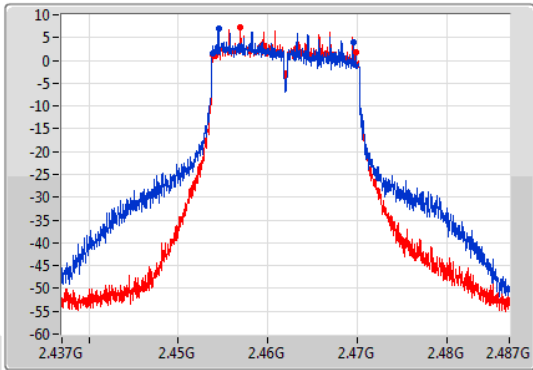
802.11g_Nss1,(6Mbps)_2TX

EBW

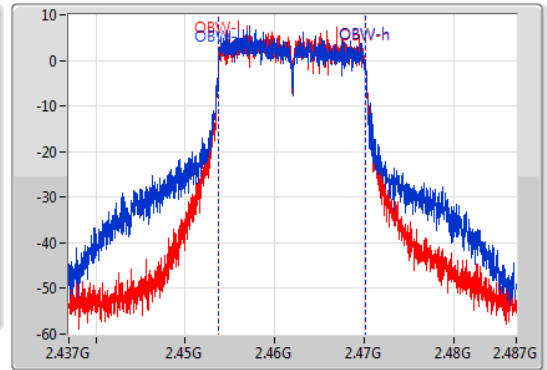
2462MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.725M	2.4538G	2.469525G	16.467M	2.453704G	2.470171G	500k	1
15.975M	2.45385G	2.469825G	16.367M	2.453779G	2.470146G	500k	2

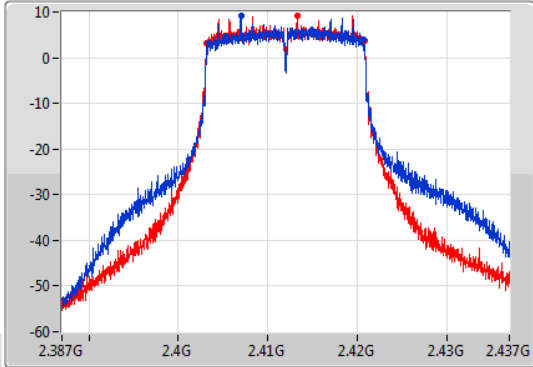
VHT20_Nss1,(MCS0)_2TX

EBW

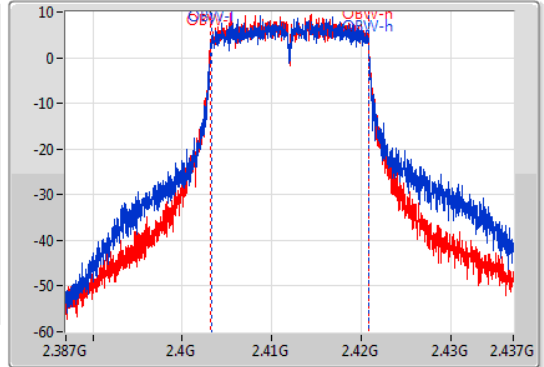
2412MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.375M	2.403375G	2.42075G	17.591M	2.403229G	2.420821G	500k	1
17.55M	2.403225G	2.420775G	17.616M	2.403179G	2.420796G	500k	2

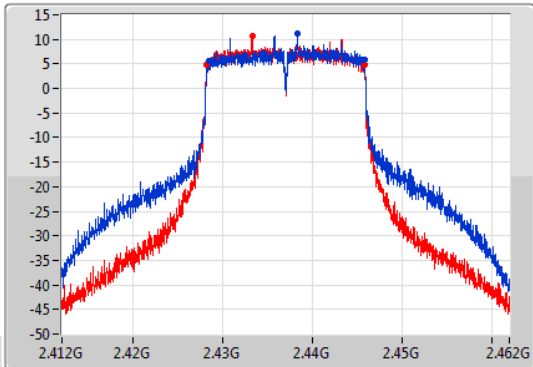
VHT20_Nss1,(MCS0)_2TX

EBW

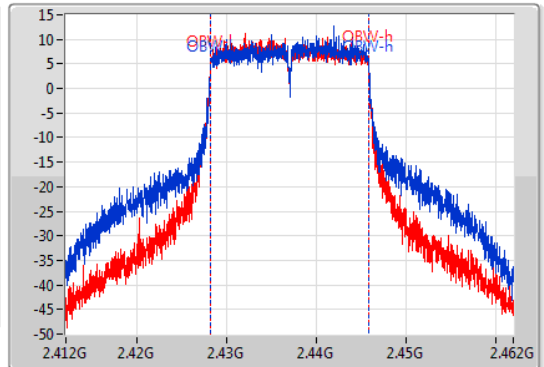
2437MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.375M	2.4284G	2.445775G	17.741M	2.428154G	2.445896G	500k	1
17.55M	2.428225G	2.445775G	17.666M	2.428154G	2.445821G	500k	2

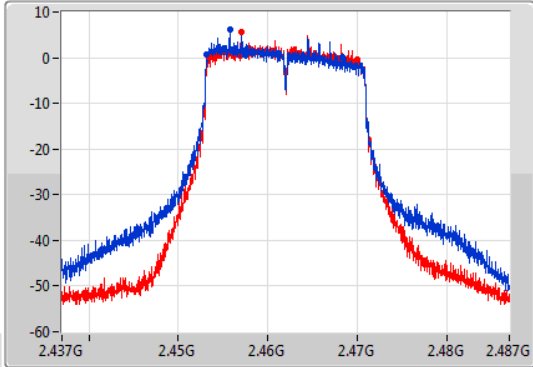
VHT20_Nss1,(MCS0)_2TX

EBW

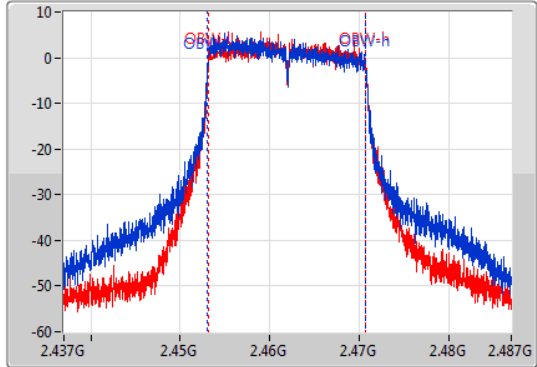
2462MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.125M	2.4532G	2.468325G	17.641M	2.453079G	2.470721G	500k	1
16.65M	2.4534G	2.47005G	17.566M	2.453179G	2.470746G	500k	2

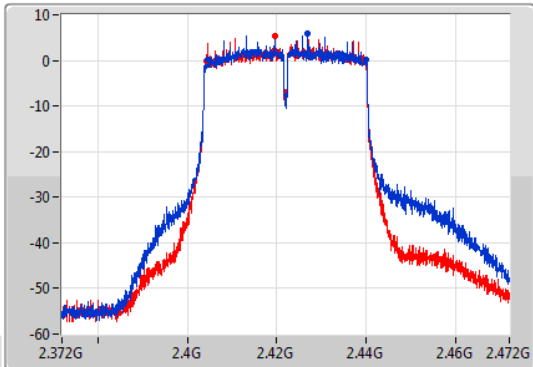
VHT40_Nss1,(MCS0)_2TX

EBW

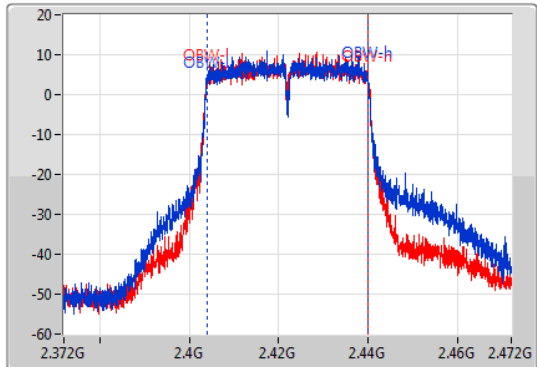
2422MHz

16/09/2019

CF
2.422GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.422GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.35M	2.4046G	2.43995G	36.082M	2.403959G	2.440041G	500k	1
35.6M	2.4042G	2.4398G	36.132M	2.403909G	2.440041G	500k	2

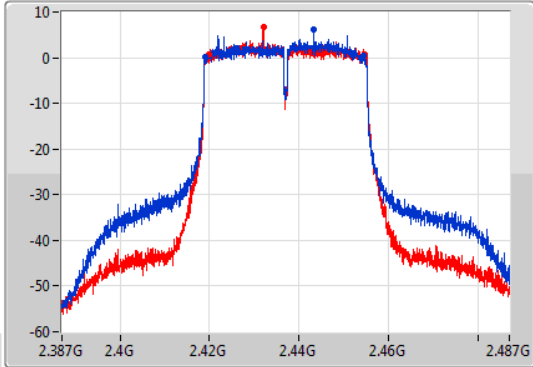
VHT40_Nss1,(MCS0)_2TX

EBW

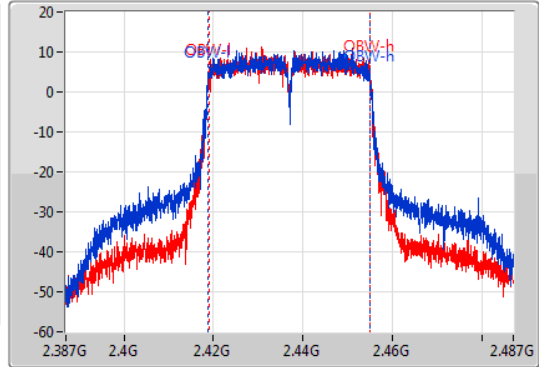
2437MHz

16/09/2019

CF
2.437GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.437GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.5M	2.41895G	2.45445G	36.082M	2.418859G	2.454941G	500k	1
34.9M	2.4199G	2.4548G	36.132M	2.418909G	2.455041G	500k	2

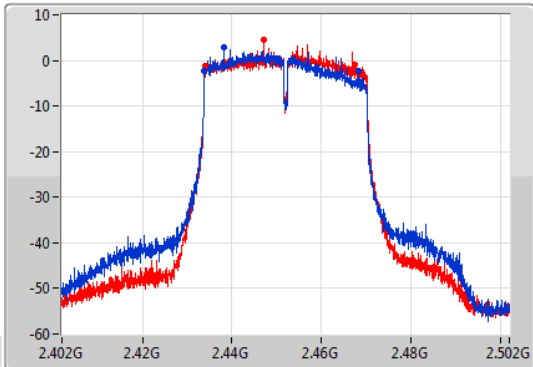
VHT40_Nss1,(MCS0)_2TX

EBW

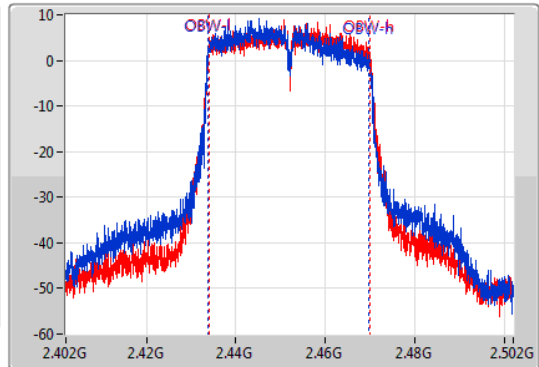
2452MHz

16/09/2019

CF
2.452GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak



CF
2.452GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.5M	2.4338G	2.4683G	35.932M	2.433859G	2.469791G	500k	1
33.4M	2.43405G	2.46745G	36.032M	2.433909G	2.469941G	500k	2

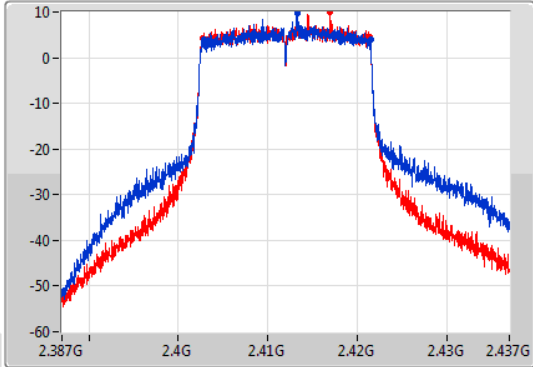
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

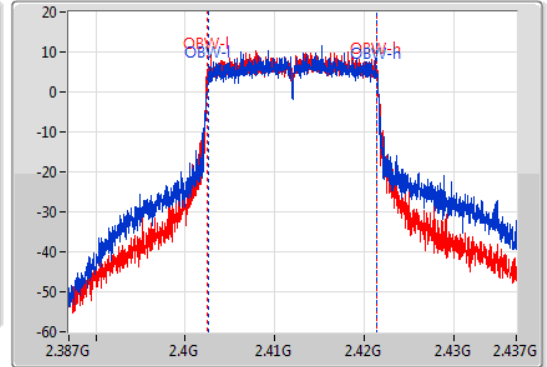
2412MHz

16/09/2019

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



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.6M	2.4029G	2.4215G	18.941M	2.40253G	2.42147G	500k	1
18.65M	2.402775G	2.421425G	18.941M	2.402505G	2.421445G	500k	2

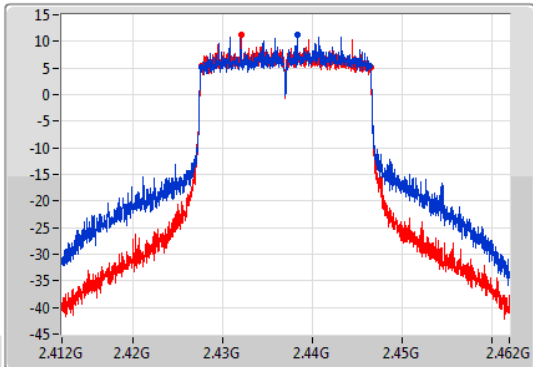
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

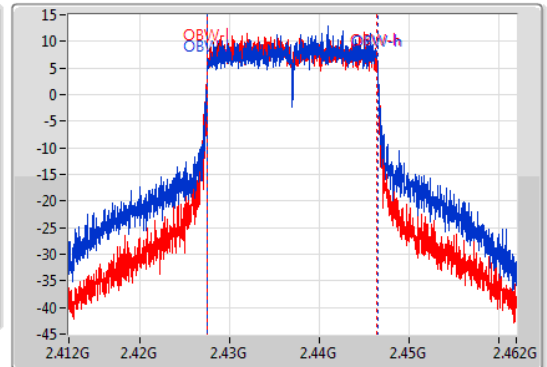
2437MHz

16/09/2019

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



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



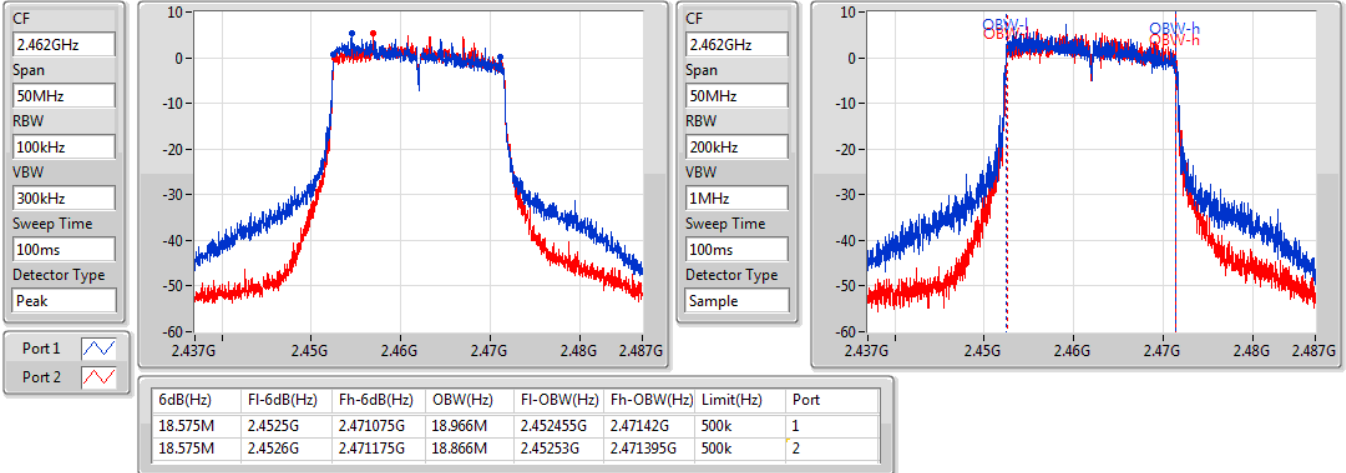
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.85M	2.4276G	2.44645G	19.015M	2.427505G	2.44652G	500k	1
18.925M	2.42755G	2.446475G	18.941M	2.427505G	2.446445G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

16/09/2019

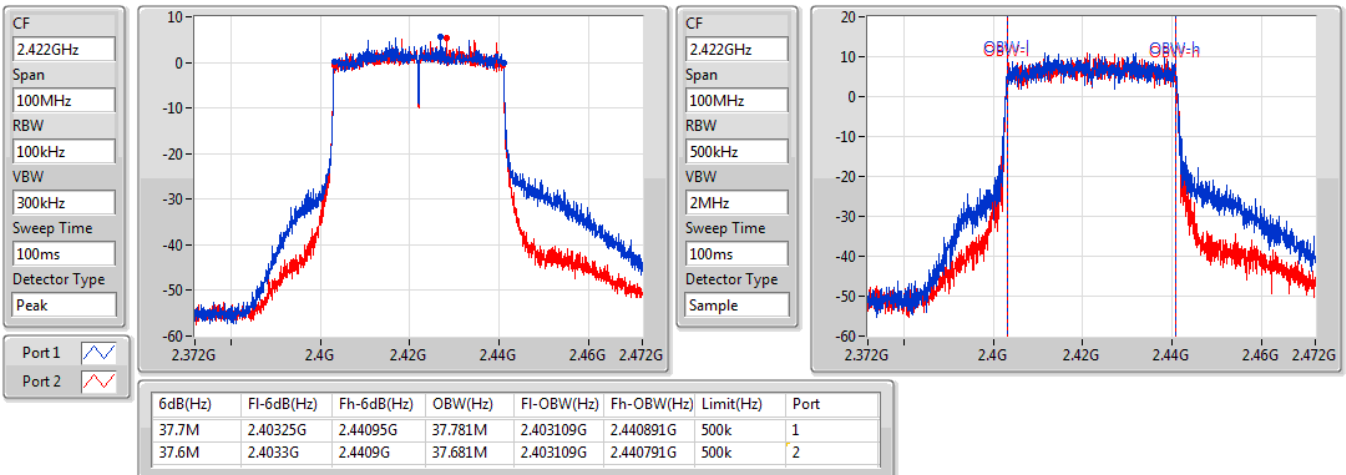


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

16/09/2019

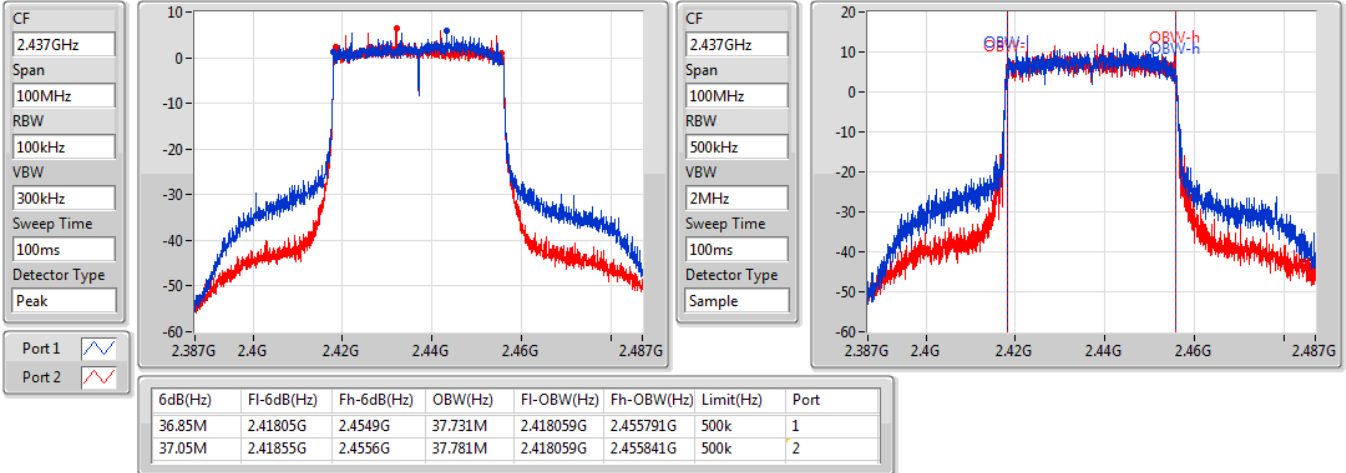


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

16/09/2019

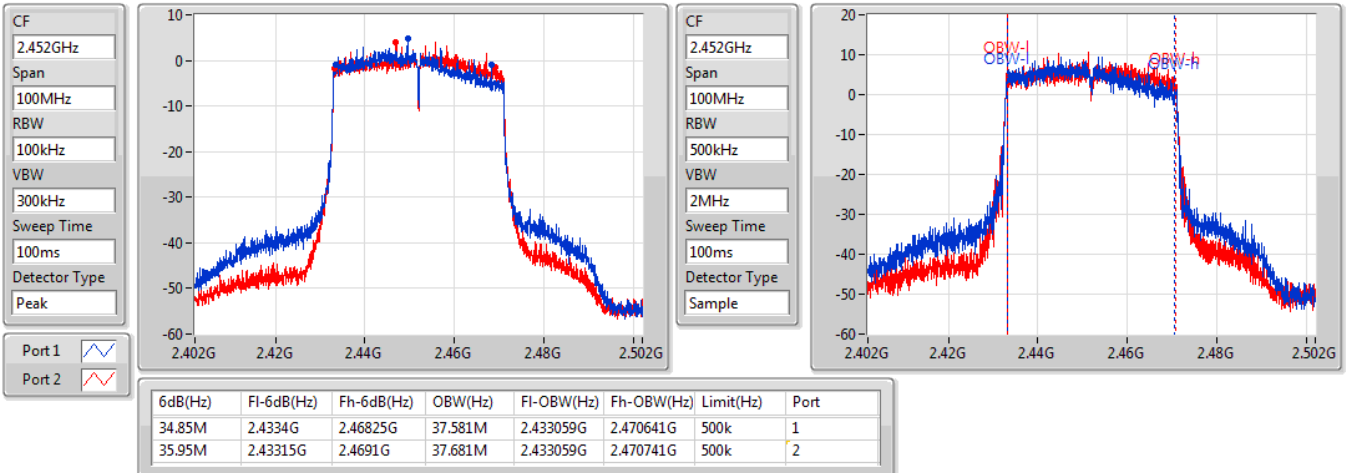


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

16/09/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.05	0.40272
802.11g_Nss1,(6Mbps)_2TX	25.20	0.33113
VHT20_Nss1,(MCS0)_2TX	25.12	0.32509
VHT40_Nss1,(MCS0)_2TX	23.19	0.20845
802.11ax HEW20_Nss1,(MCS0)_2TX	25.35	0.34277
802.11ax HEW40_Nss1,(MCS0)_2TX	23.28	0.21281



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	22.92	23.15	26.05	30.00
2437MHz	Pass	2.30	22.71	22.83	25.78	30.00
2462MHz	Pass	2.30	21.03	21.69	24.38	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	21.30	21.35	24.34	30.00
2437MHz	Pass	2.30	22.15	22.23	25.20	30.00
2457MHz	Pass	2.30	21.03	22.17	24.65	30.00
2462MHz	Pass	2.30	17.50	17.69	20.61	30.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	20.34	20.74	23.55	30.00
2437MHz	Pass	2.30	22.04	22.17	25.12	30.00
2457MHz	Pass	2.30	20.05	21.08	23.61	30.00
2462MHz	Pass	2.30	16.17	16.28	19.24	30.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	19.70	19.61	22.67	30.00
2437MHz	Pass	2.30	20.34	20.01	23.19	30.00
2452MHz	Pass	2.30	17.54	17.78	20.67	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	20.53	20.94	23.75	30.00
2417MHz	Pass	2.30	20.62	20.95	23.80	30.00
2437MHz	Pass	2.30	22.29	22.38	25.35	30.00
2457MHz	Pass	2.30	20.20	21.33	23.81	30.00
2462MHz	Pass	2.30	16.33	16.44	19.40	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	19.81	19.82	22.83	30.00
2427MHz	Pass	2.30	19.90	19.66	22.79	30.00
2437MHz	Pass	2.30	20.33	20.21	23.28	30.00
2447MHz	Pass	2.30	18.07	18.03	21.06	30.00
2452MHz	Pass	2.30	17.74	17.82	20.79	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	21.95	0.15668
802.11ax HEW40_Nss1,(MCS0)_2TX	20.29	0.10691



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	17.50	17.41	20.47	30.00
2417MHz	Pass	2.30	17.43	17.34	20.40	30.00
2437MHz	Pass	2.30	18.98	18.90	21.95	30.00
2457MHz	Pass	2.30	17.57	17.77	20.68	30.00
2462MHz	Pass	2.30	13.22	13.11	16.18	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	17.30	17.22	20.27	30.00
2427MHz	Pass	2.30	17.23	17.32	20.29	30.00
2437MHz	Pass	2.30	16.58	16.67	19.64	30.00
2447MHz	Pass	2.30	14.64	14.58	17.62	30.00
2452MHz	Pass	2.30	14.09	15.30	17.75	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	23.37	0.21727
802.11ax HEW40_Nss1,(MCS0)_2TX	20.33	0.10789



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	19.00	19.02	22.02	30.00
2417MHz	Pass	2.30	18.94	19.01	21.99	30.00
2437MHz	Pass	2.30	20.24	20.47	23.37	30.00
2457MHz	Pass	2.30	19.61	19.76	22.70	30.00
2462MHz	Pass	2.30	14.20	14.33	17.28	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	17.24	17.30	20.28	30.00
2427MHz	Pass	2.30	17.11	17.29	20.21	30.00
2437MHz	Pass	2.30	17.28	17.36	20.33	30.00
2447MHz	Pass	2.30	14.82	14.63	17.74	30.00
2452MHz	Pass	2.30	14.84	14.86	17.86	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	2.56
802.11g_Nss1,(6Mbps)_2TX	-1.92
VHT20_Nss1,(MCS0)_2TX	-1.69
VHT40_Nss1,(MCS0)_2TX	-6.65
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.54
802.11ax HEW40_Nss1,(MCS0)_2TX	-6.89

RBW=3 kHz.

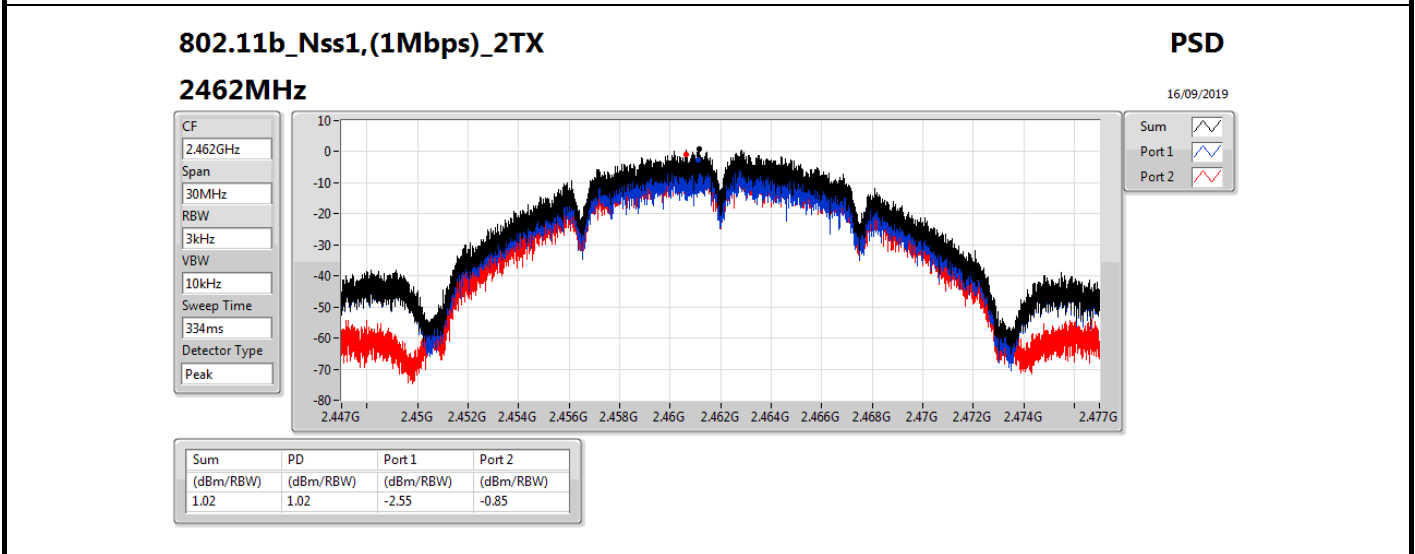
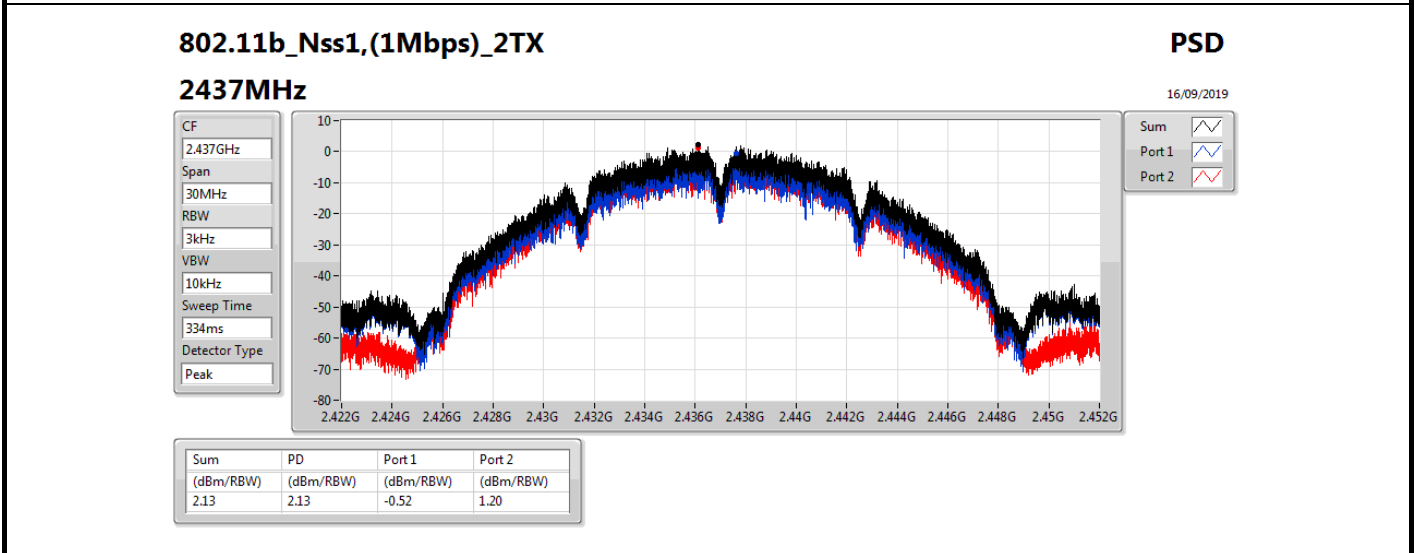
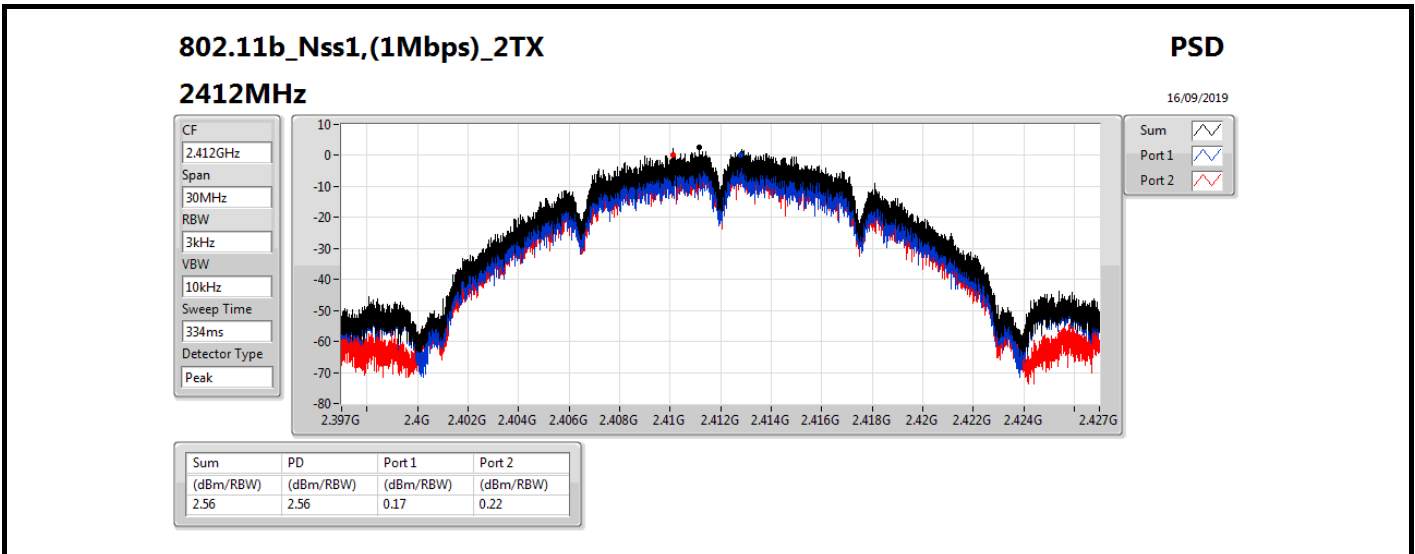


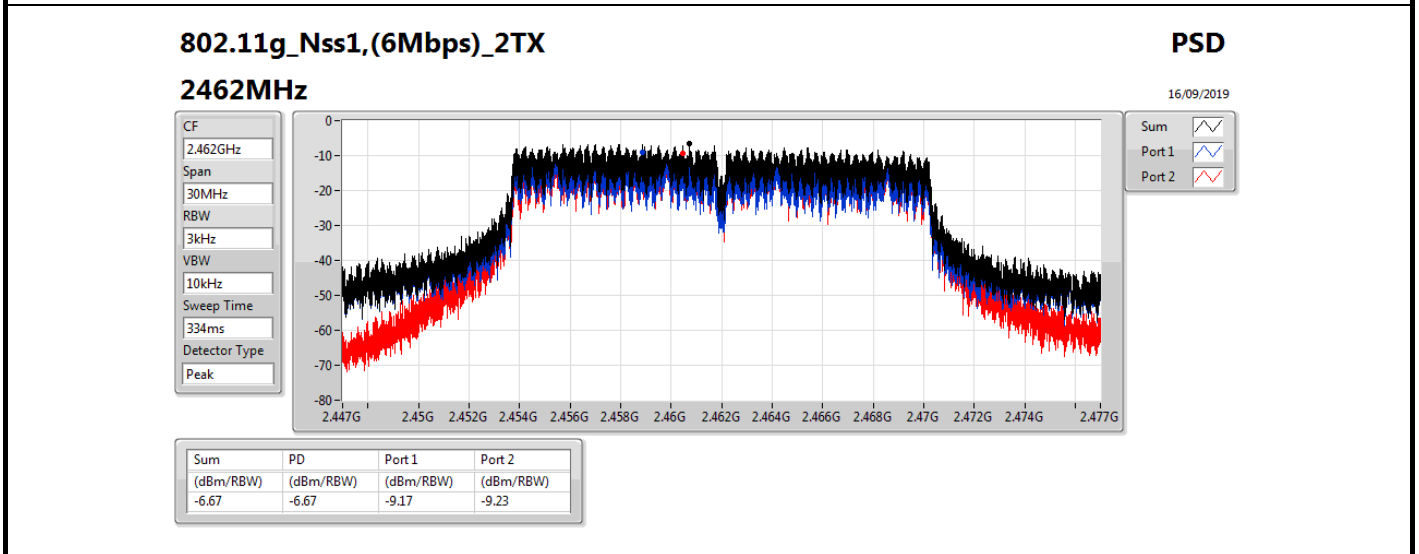
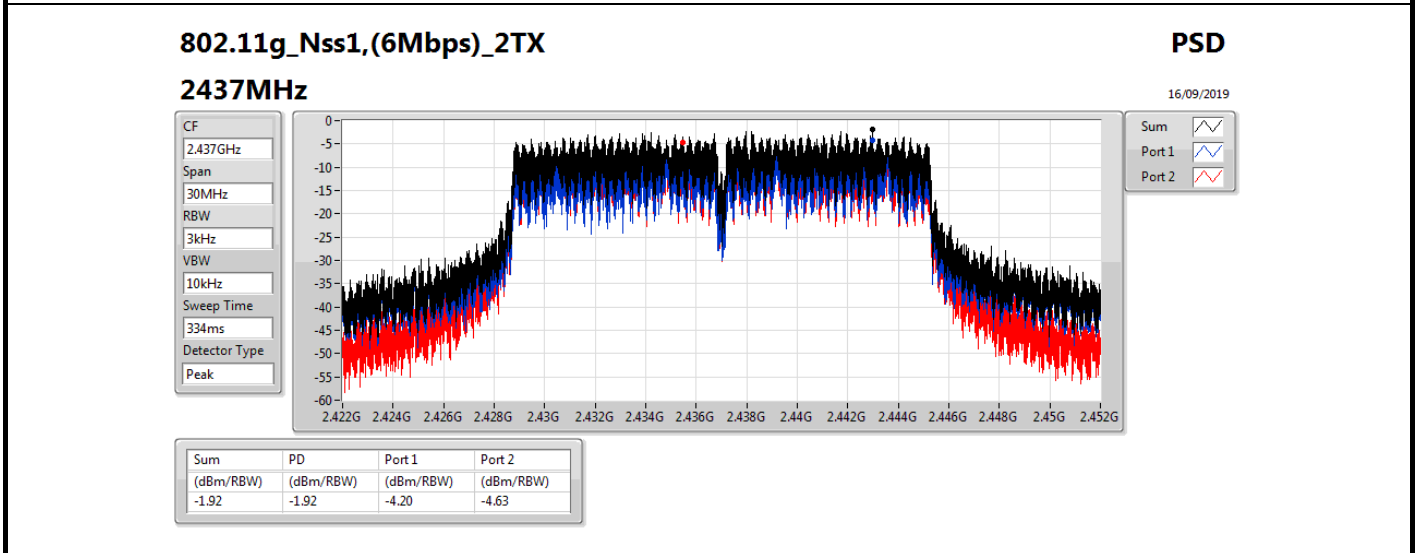
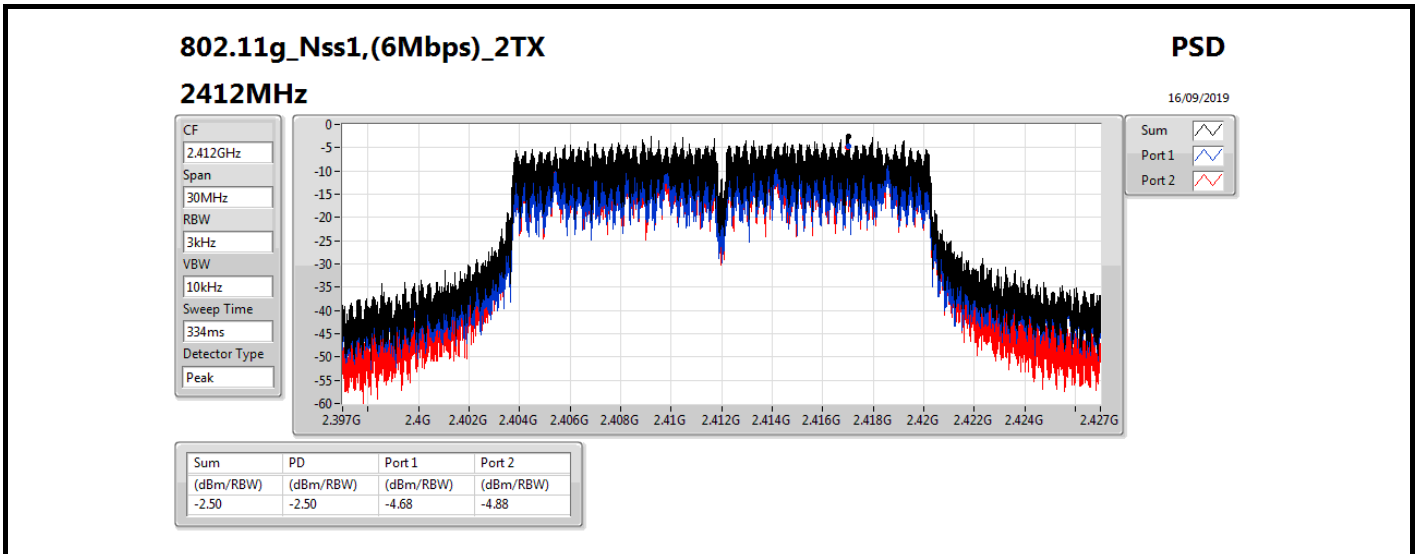
Result

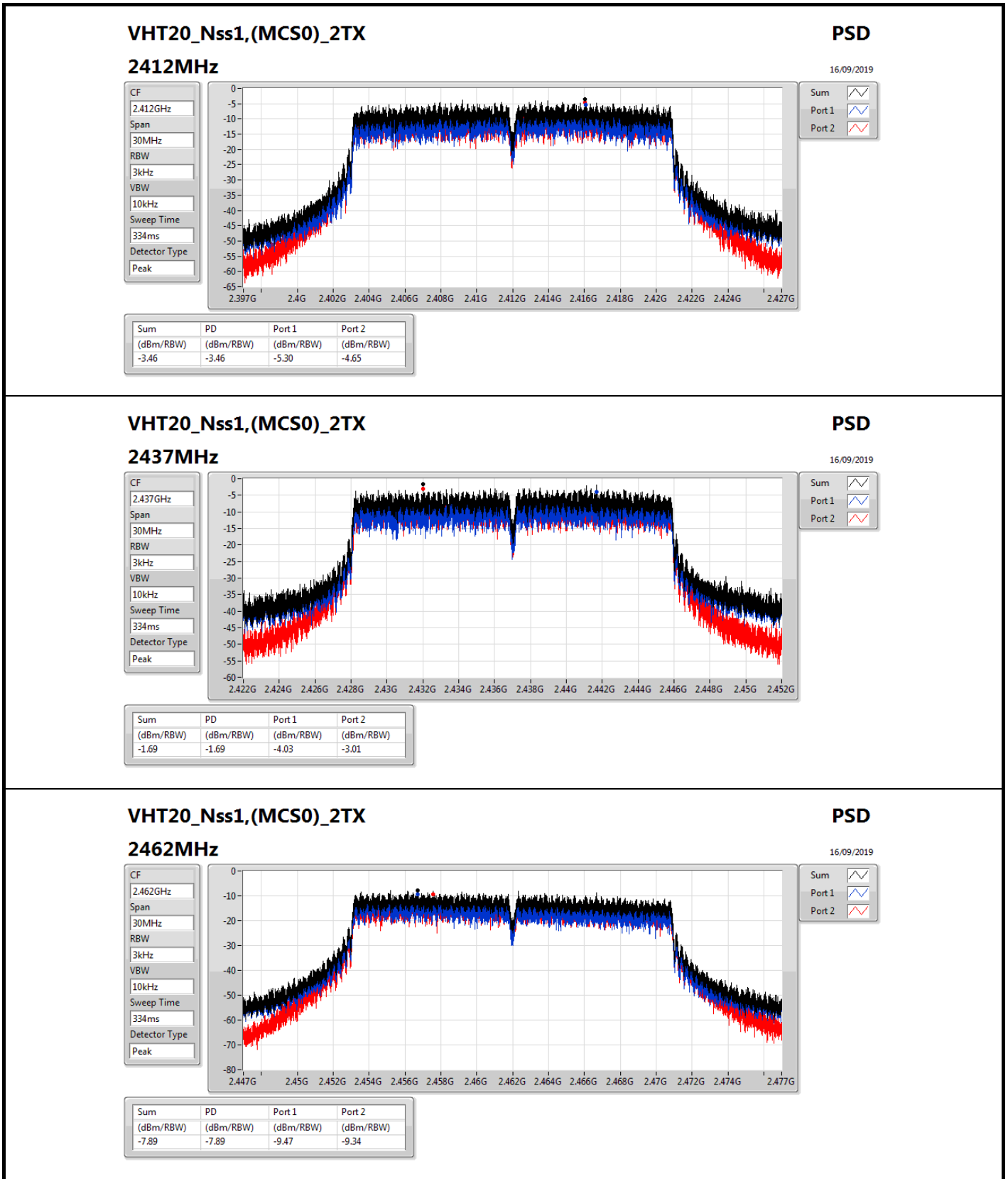
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	0.17	0.22	2.56	8.00
2437MHz	Pass	2.30	-0.52	1.20	2.13	8.00
2462MHz	Pass	2.30	-2.55	-0.85	1.02	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	-4.68	-4.88	-2.50	8.00
2437MHz	Pass	2.30	-4.20	-4.63	-1.92	8.00
2462MHz	Pass	2.30	-9.17	-9.23	-6.67	8.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	-5.30	-4.65	-3.46	8.00
2437MHz	Pass	2.30	-4.03	-3.01	-1.69	8.00
2462MHz	Pass	2.30	-9.47	-9.34	-7.89	8.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	-9.02	-9.02	-7.00	8.00
2437MHz	Pass	2.30	-8.11	-8.57	-6.65	8.00
2452MHz	Pass	2.30	-9.82	-9.41	-8.23	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	-5.64	-5.53	-3.71	8.00
2417MHz	Pass	2.30	-5.28	-5.59	-3.79	8.00
2437MHz	Pass	2.30	-4.17	-4.34	-2.54	8.00
2457MHz	Pass	2.30	-4.84	-4.88	-3.49	8.00
2462MHz	Pass	2.30	-9.17	-9.54	-8.46	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	-9.72	-9.69	-7.17	8.00
2427MHz	Pass	2.30	-8.99	-8.84	-7.16	8.00
2437MHz	Pass	2.30	-9.01	-8.73	-6.89	8.00
2447MHz	Pass	2.30	-10.25	-11.57	-9.02	8.00
2452MHz	Pass	2.30	-10.05	-9.52	-8.82	8.00

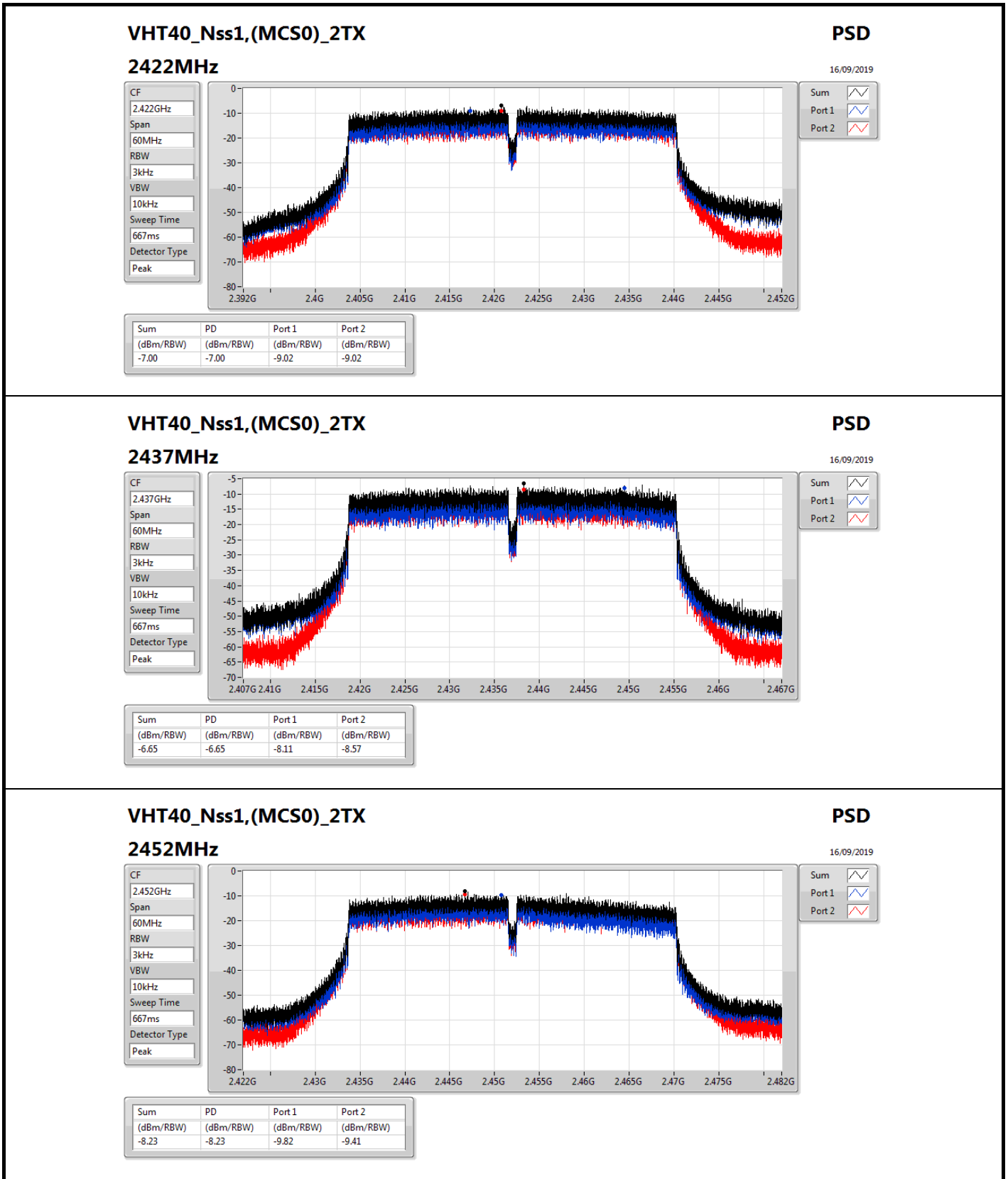
DG = Directional Gain; RBW=3 kHz;

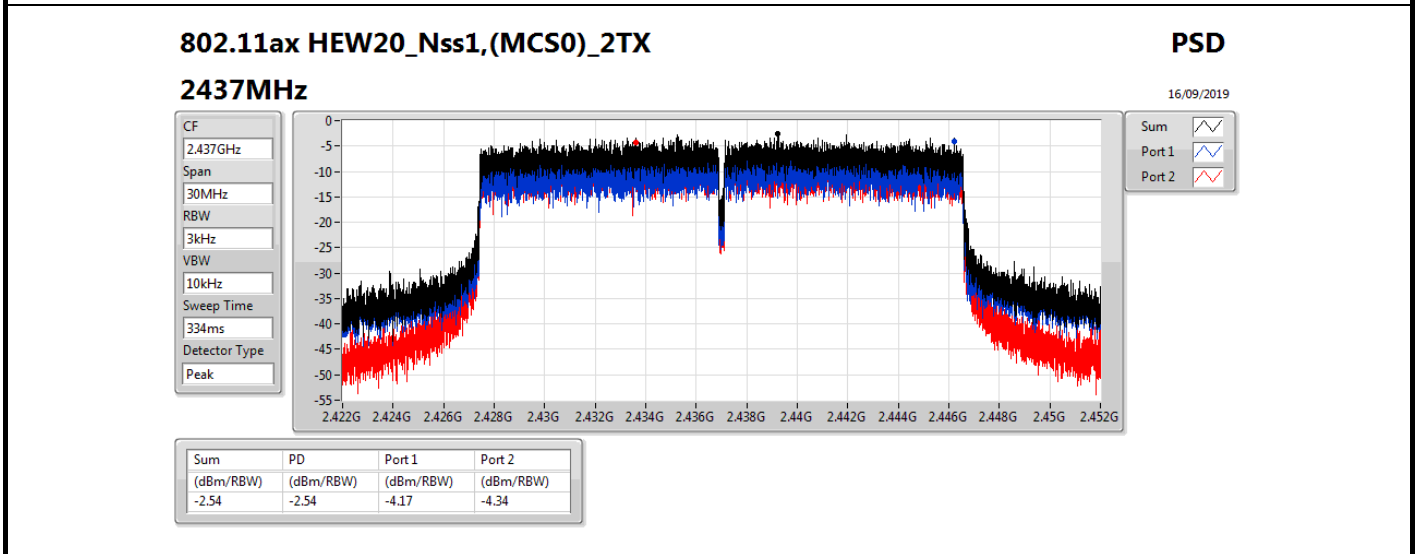
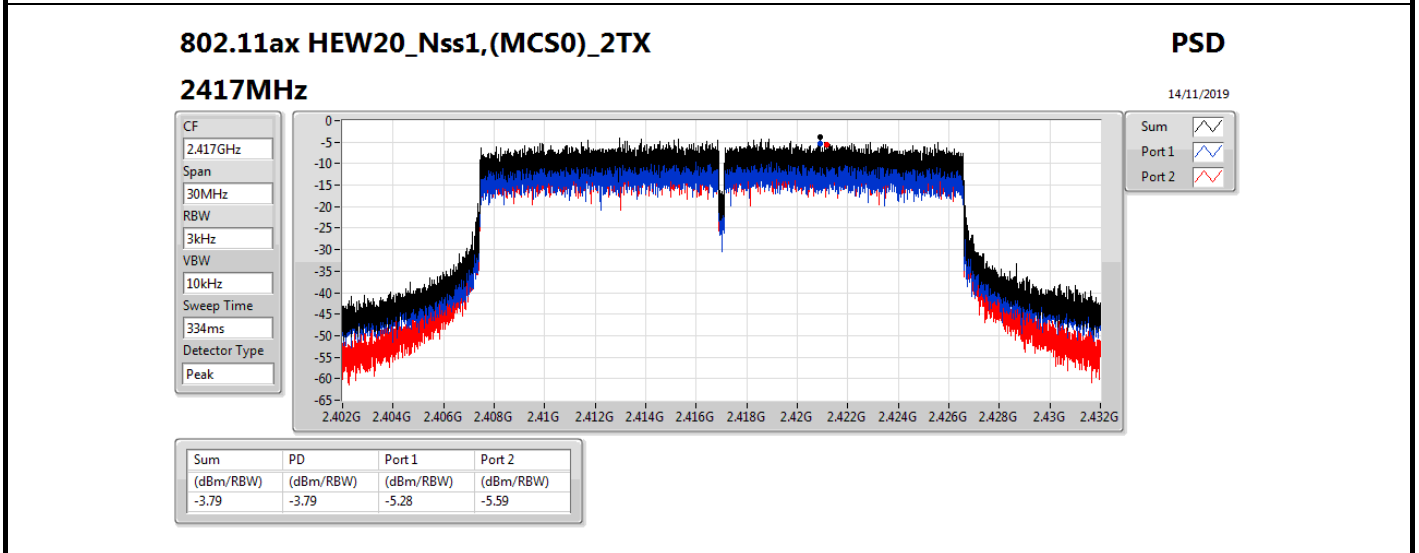
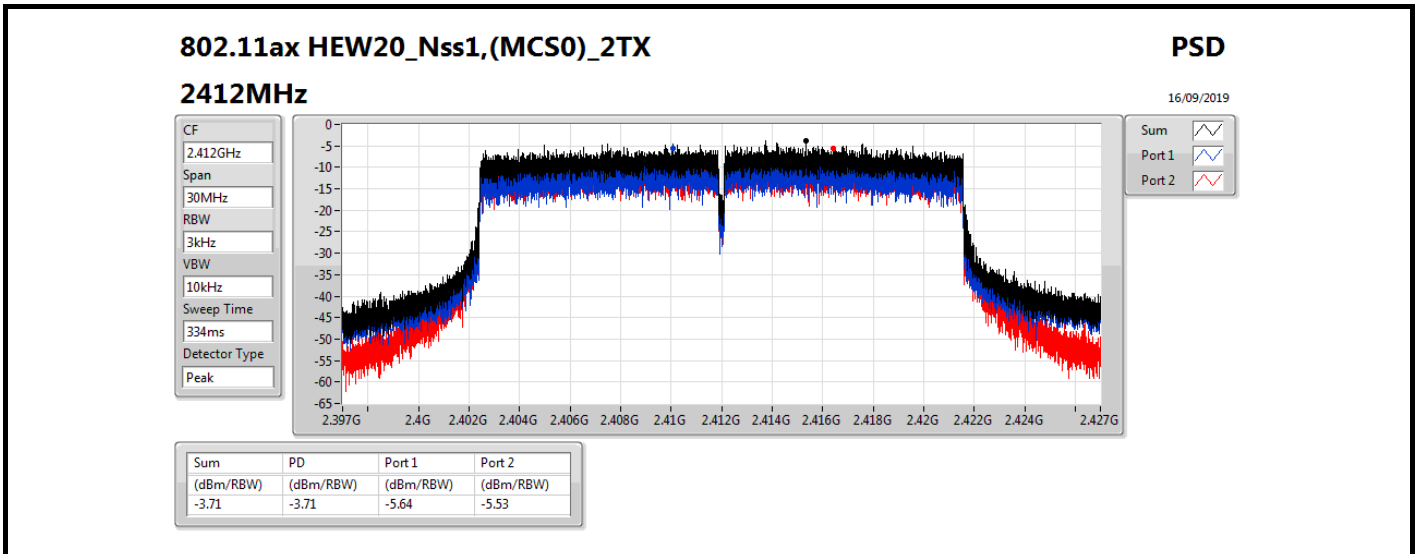
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

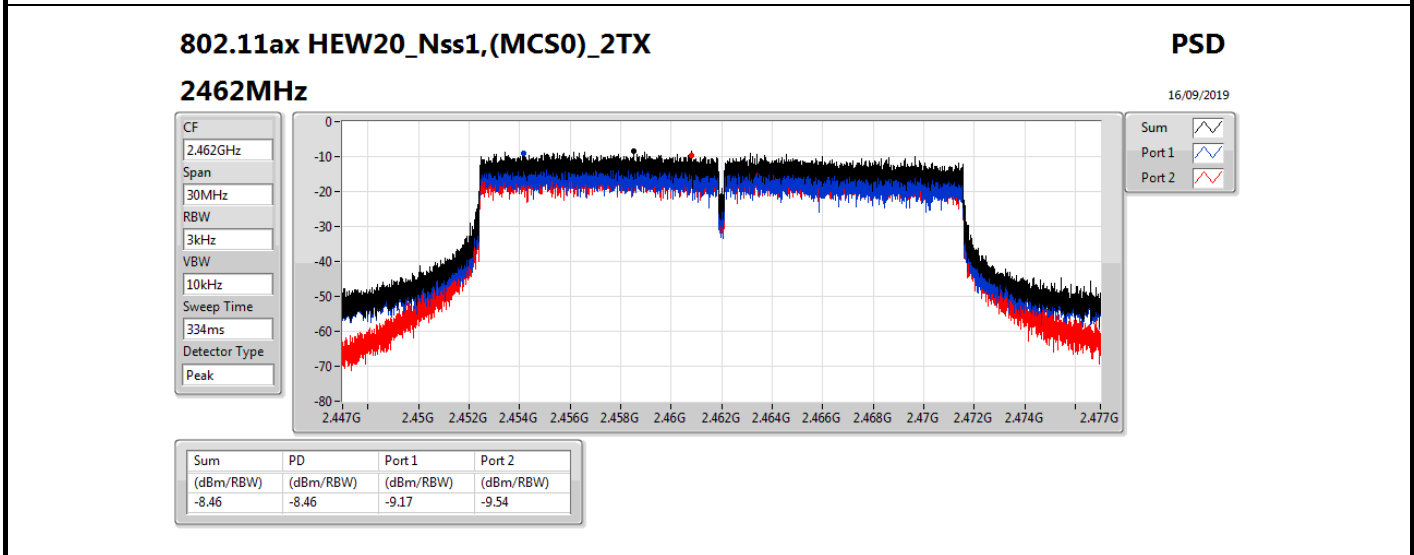
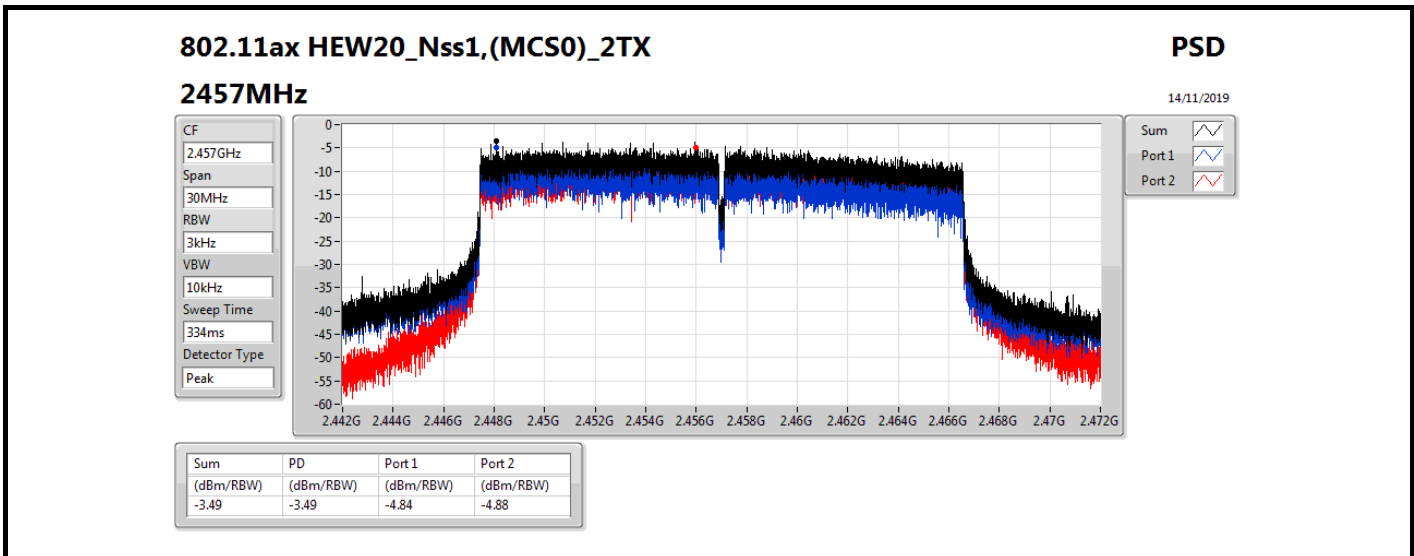


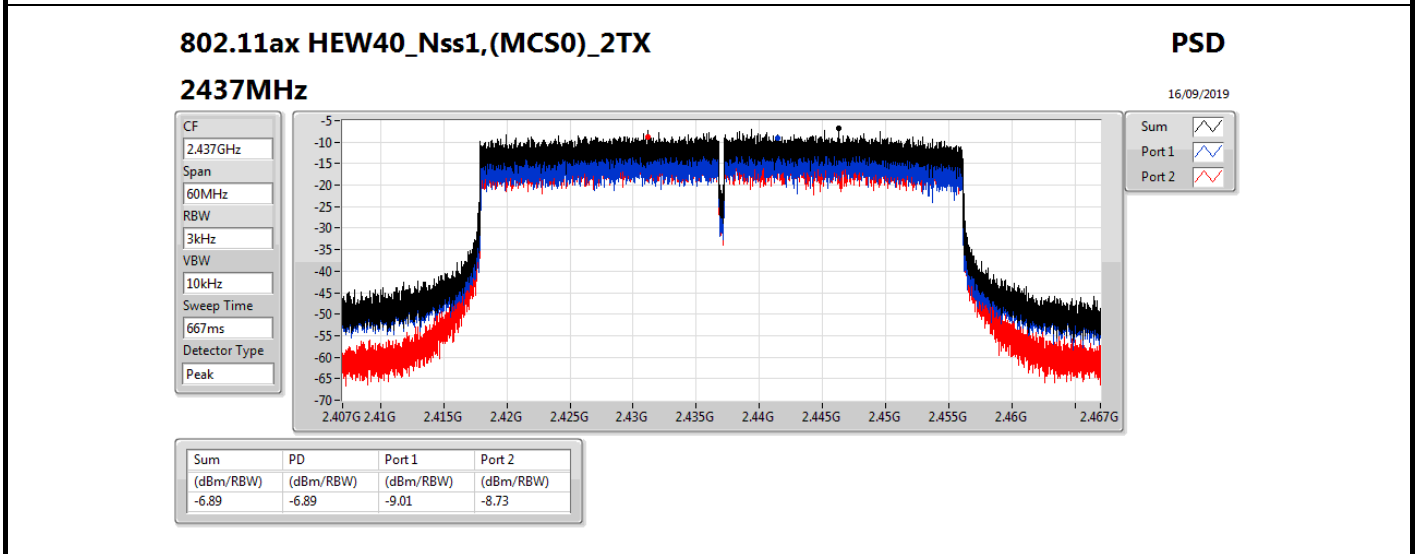
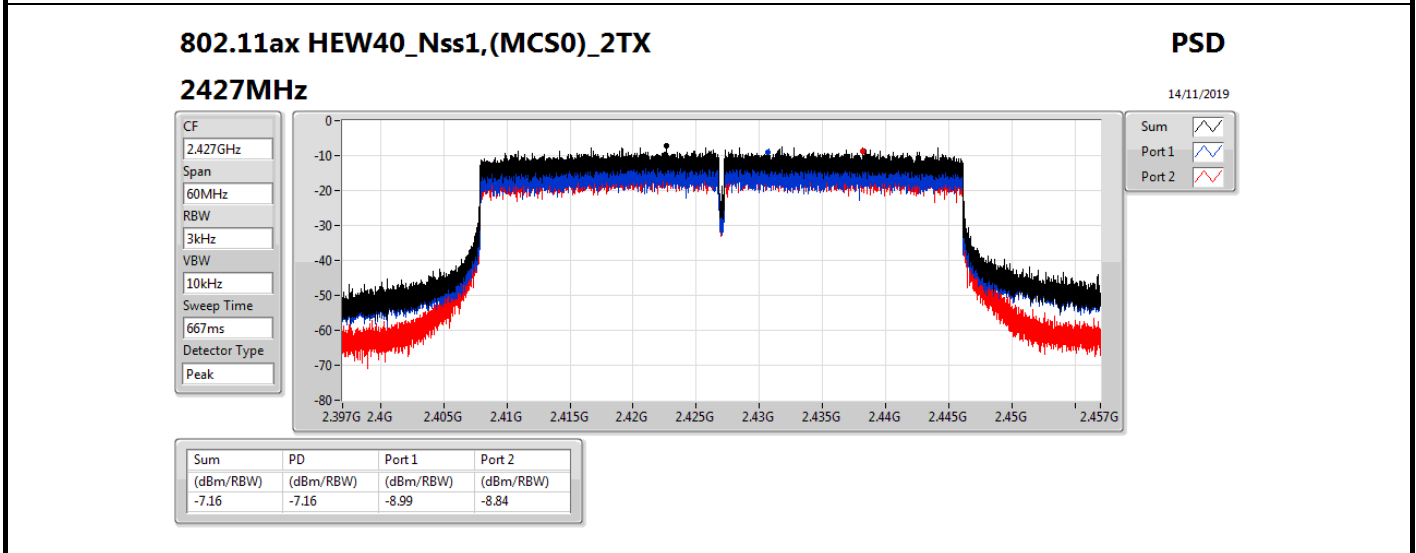
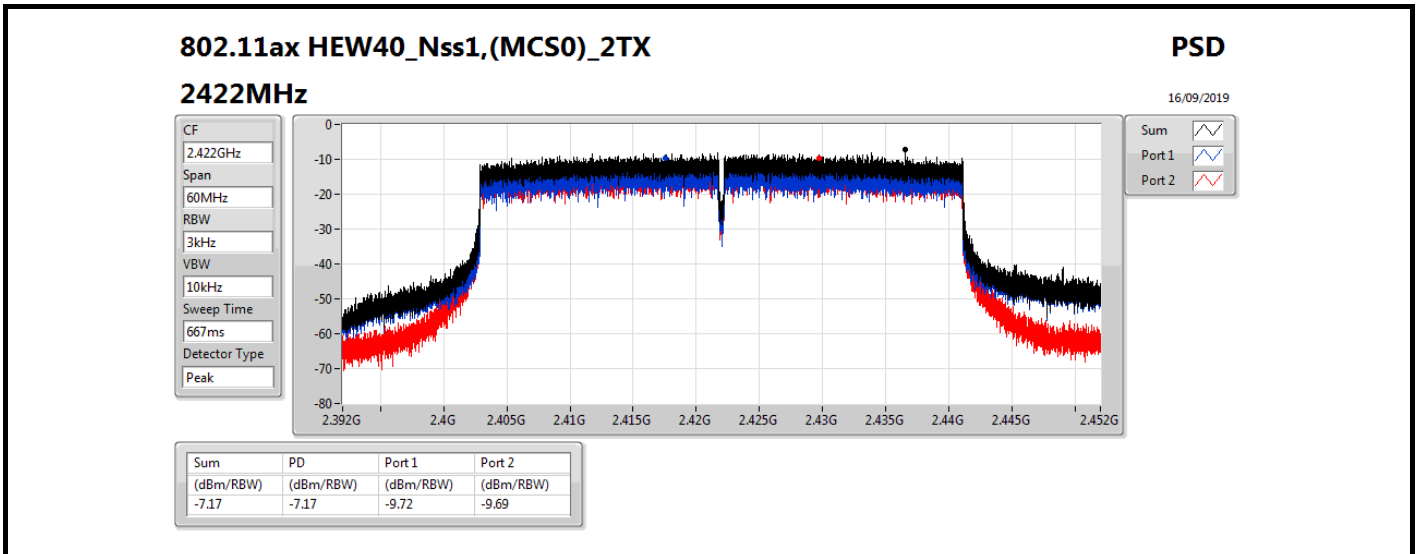


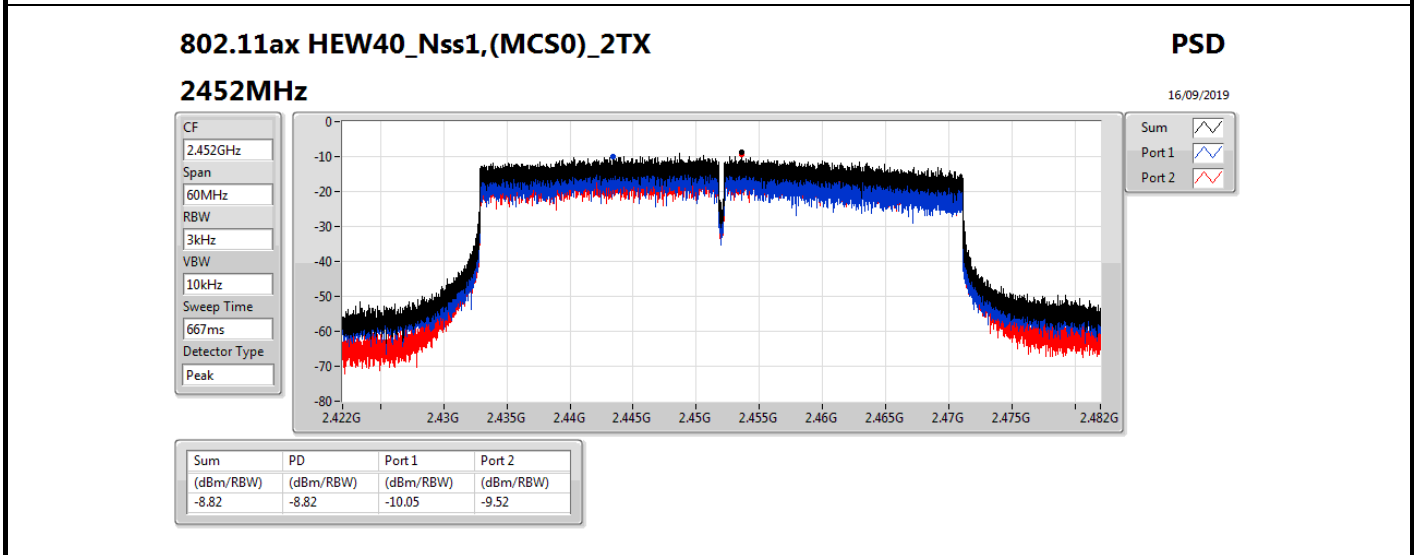
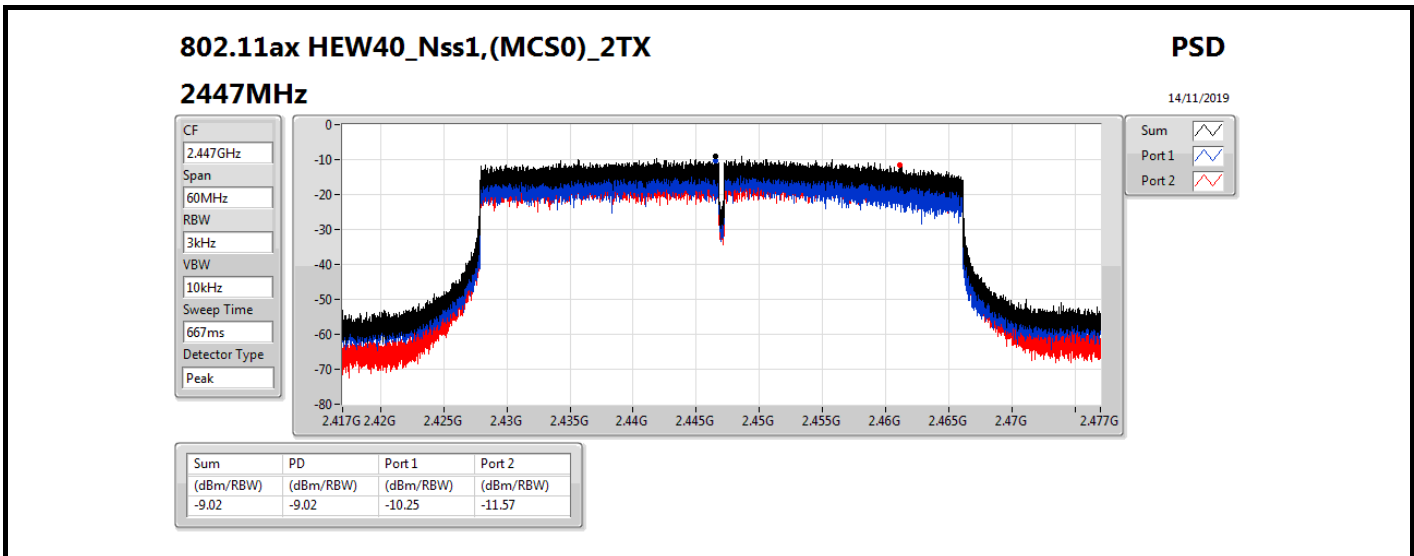














Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.87
802.11ax HEW40_Nss1,(MCS0)_2TX	-7.16

RBW=3 kHz.

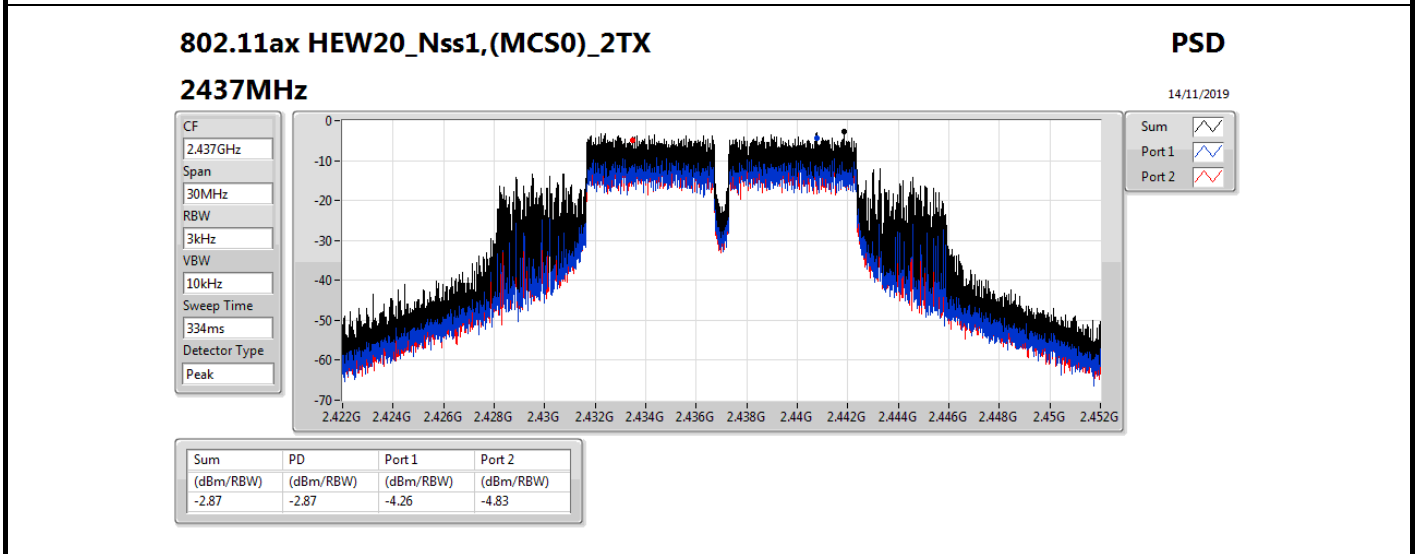
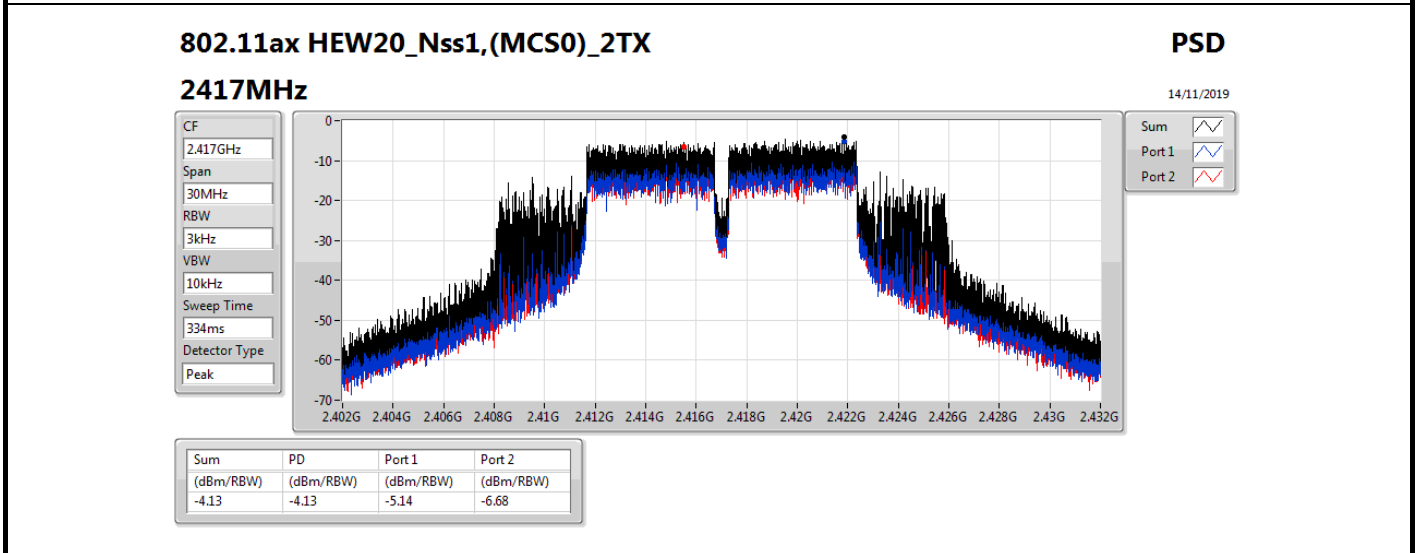
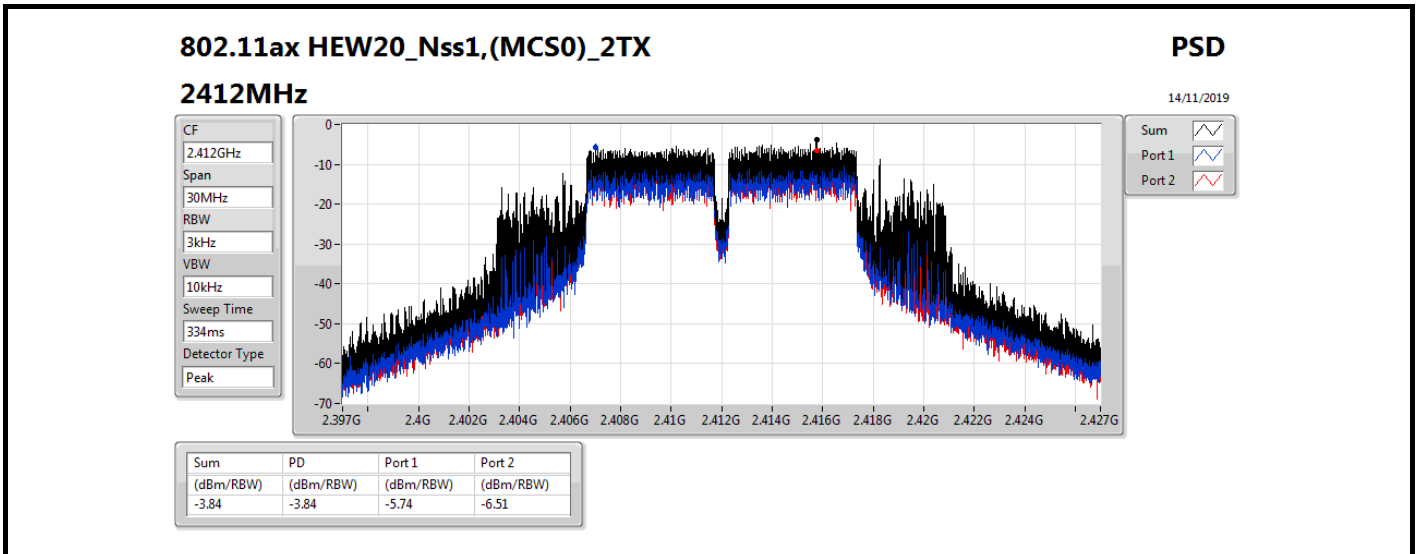


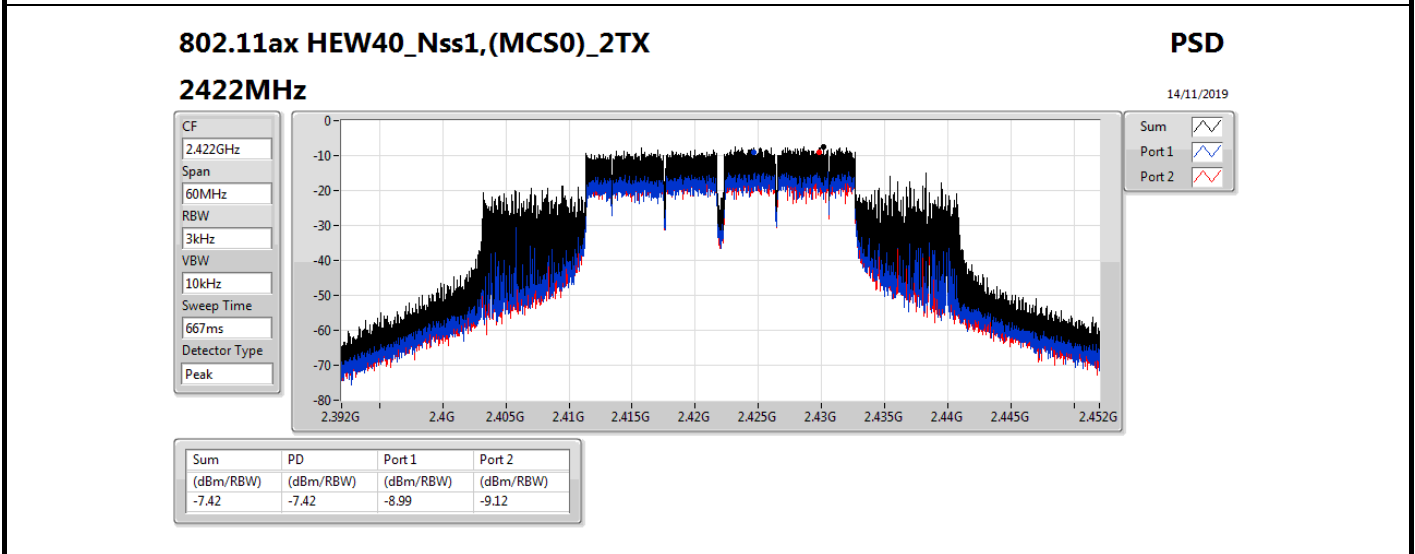
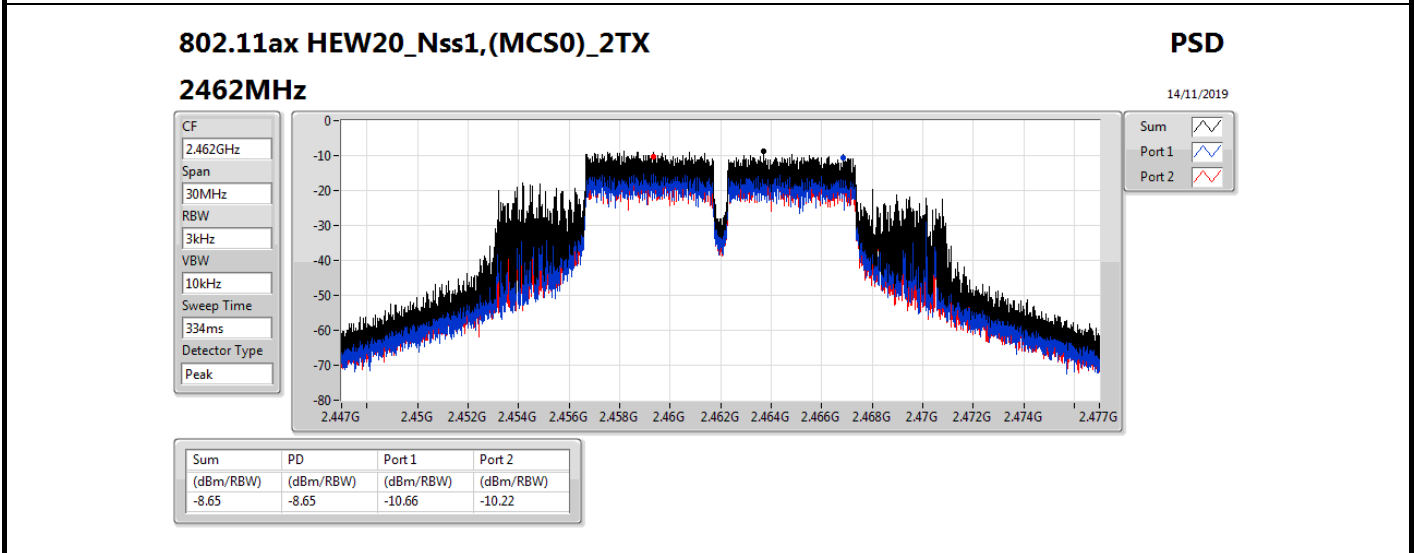
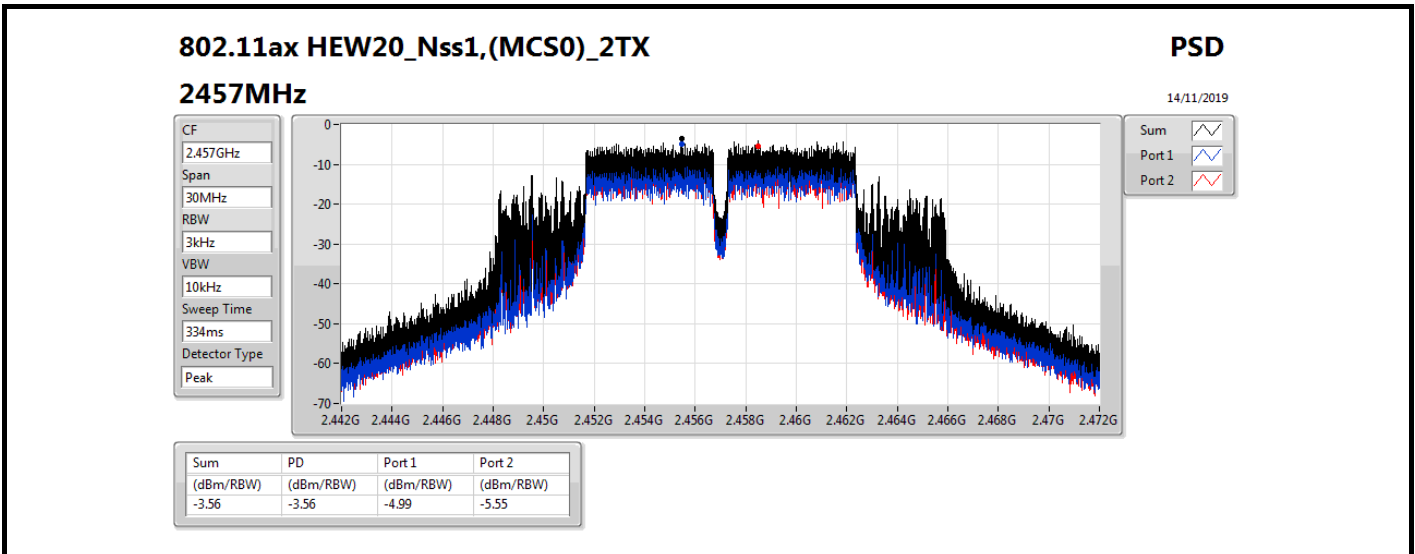
Result

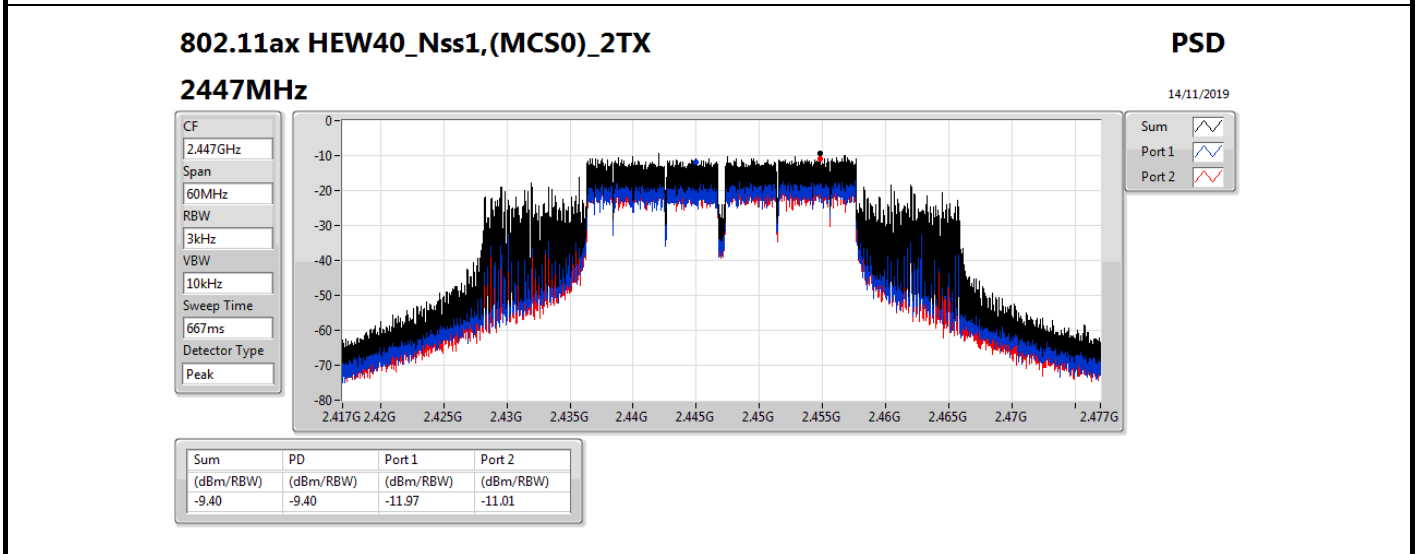
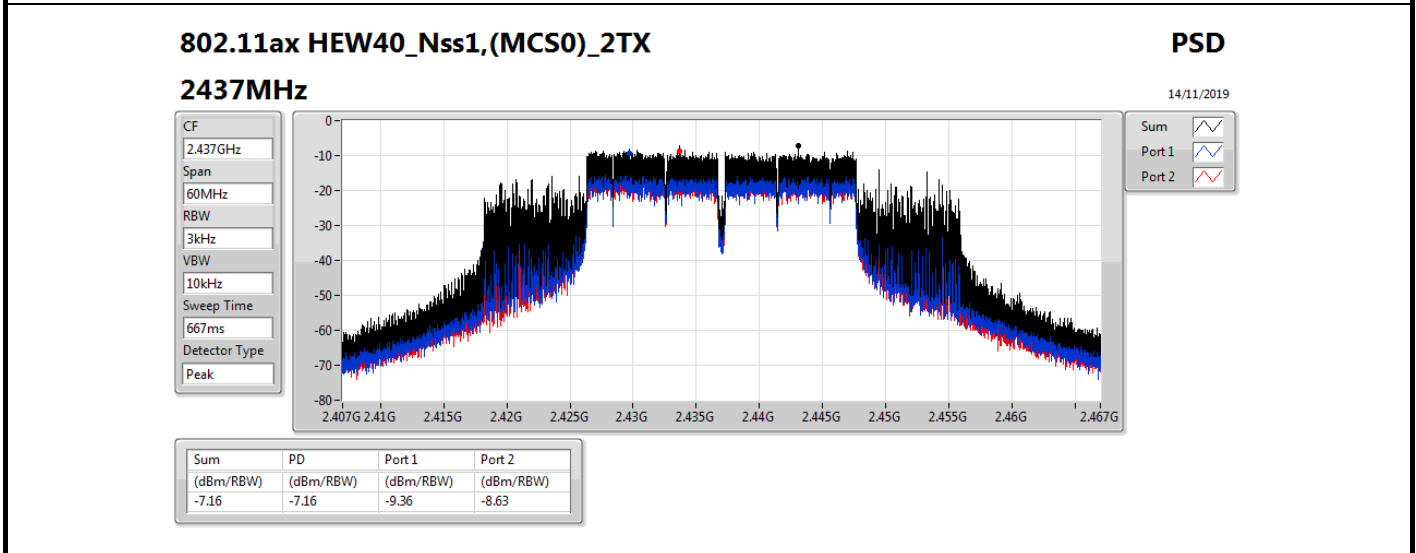
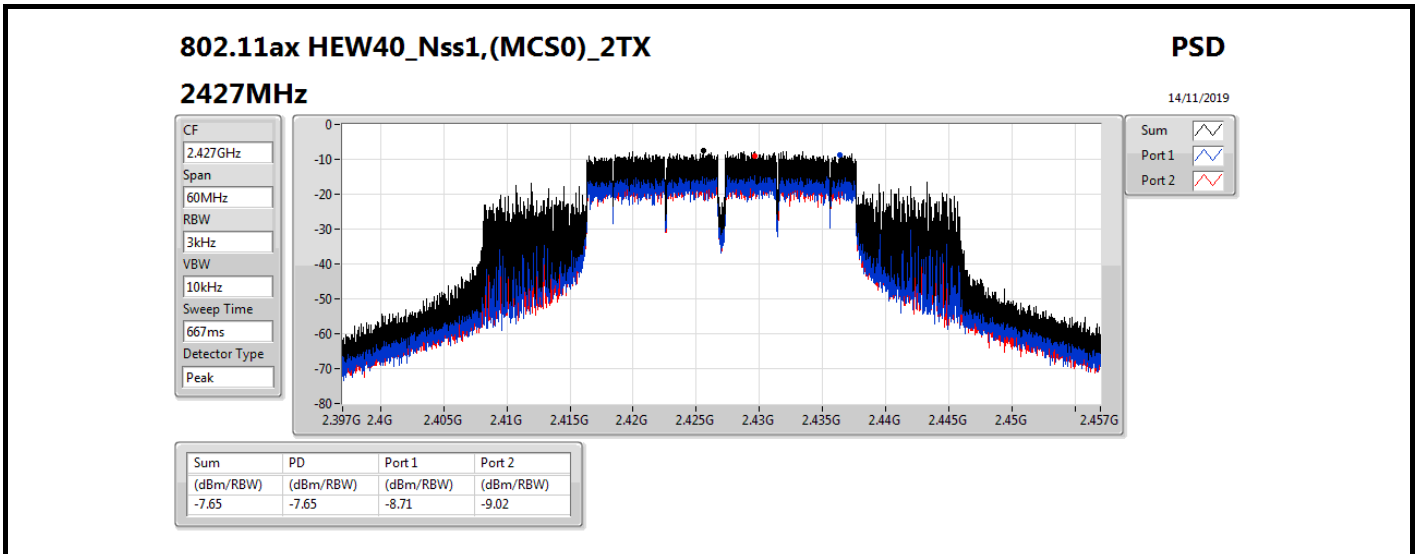
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	-5.74	-6.51	-3.84	8.00
2417MHz	Pass	2.30	-5.14	-6.68	-4.13	8.00
2437MHz	Pass	2.30	-4.26	-4.83	-2.87	8.00
2457MHz	Pass	2.30	-4.99	-5.55	-3.56	8.00
2462MHz	Pass	2.30	-10.66	-10.22	-8.65	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	-8.99	-9.12	-7.42	8.00
2427MHz	Pass	2.30	-8.71	-9.02	-7.65	8.00
2437MHz	Pass	2.30	-9.36	-8.63	-7.16	8.00
2447MHz	Pass	2.30	-11.97	-11.01	-9.40	8.00
2452MHz	Pass	2.30	-11.17	-11.46	-8.92	8.00

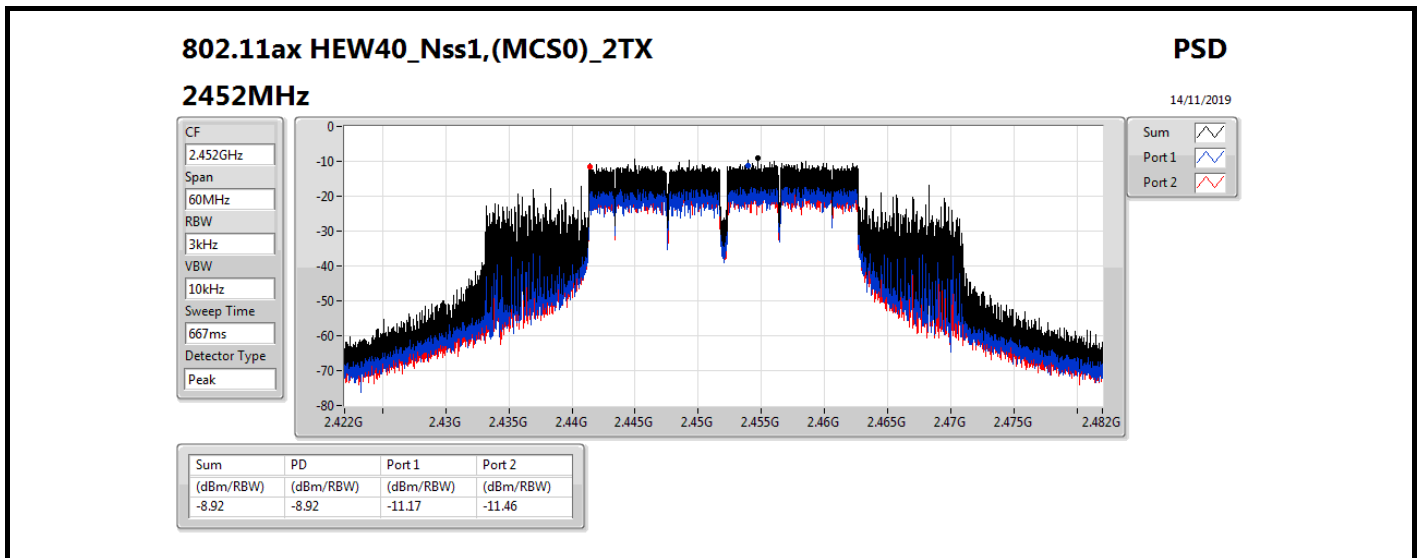
DG = Directional Gain; RBW=3 kHz;

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











Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.86
802.11ax HEW40_Nss1,(MCS0)_2TX	-7.20

RBW=3 kHz.

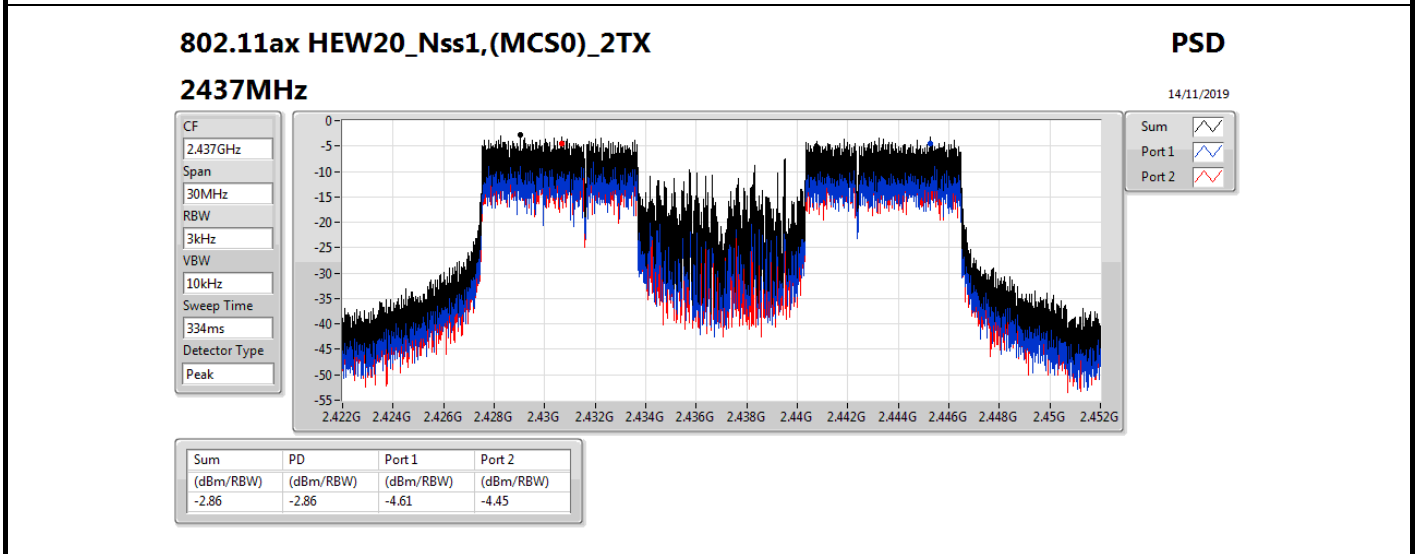
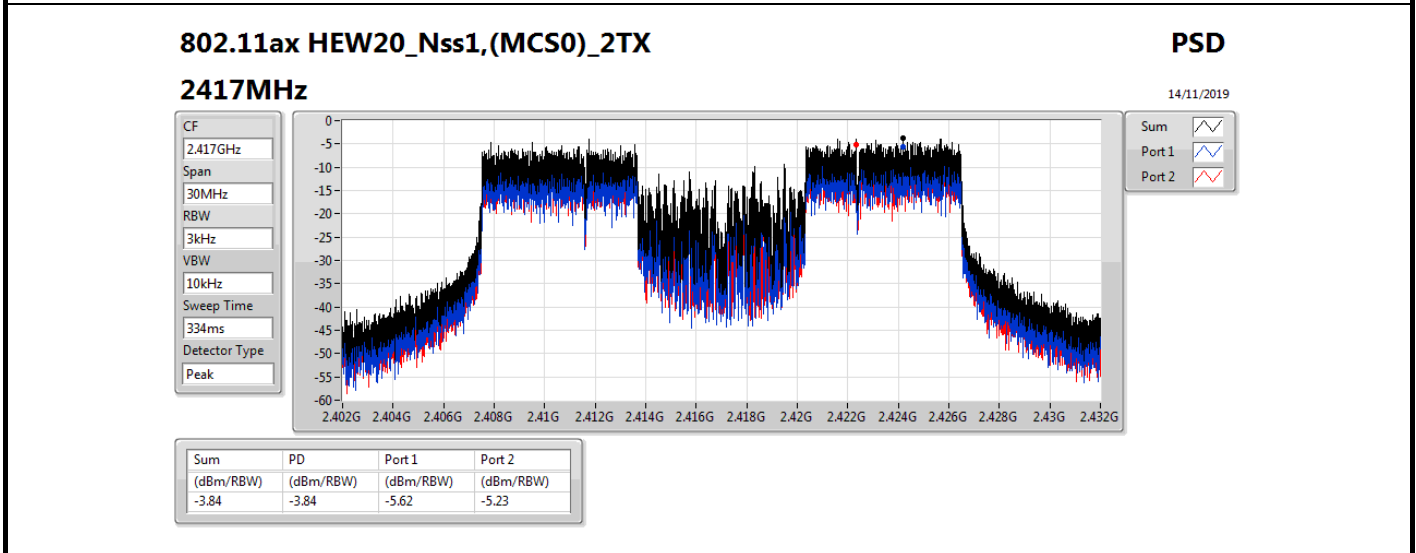
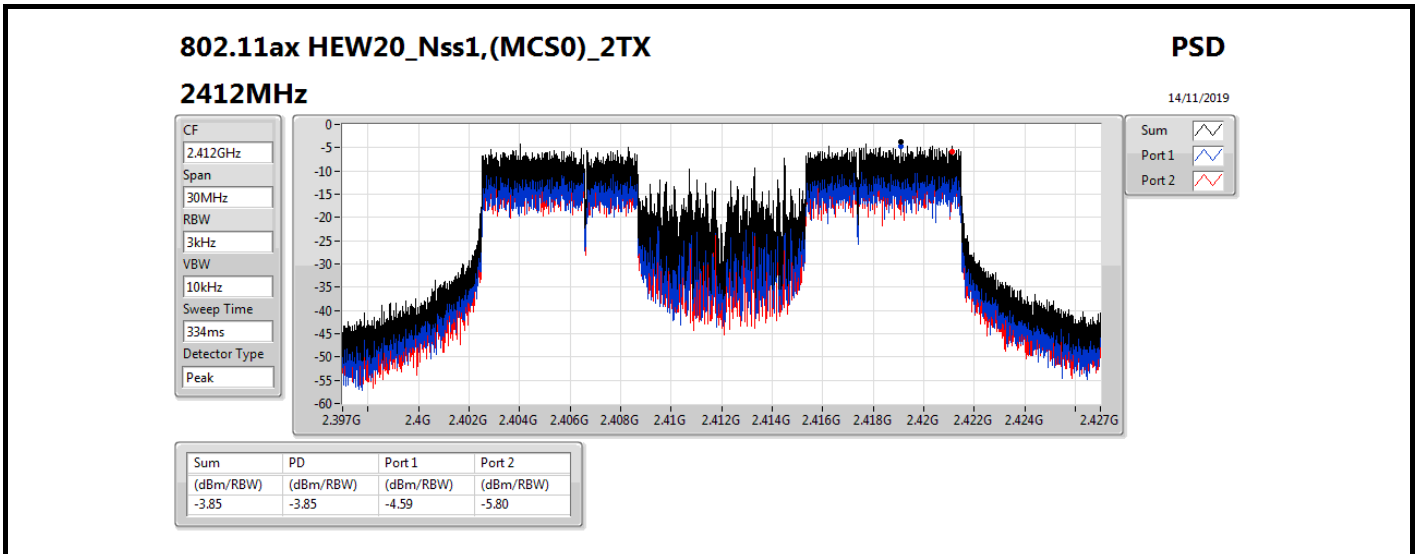


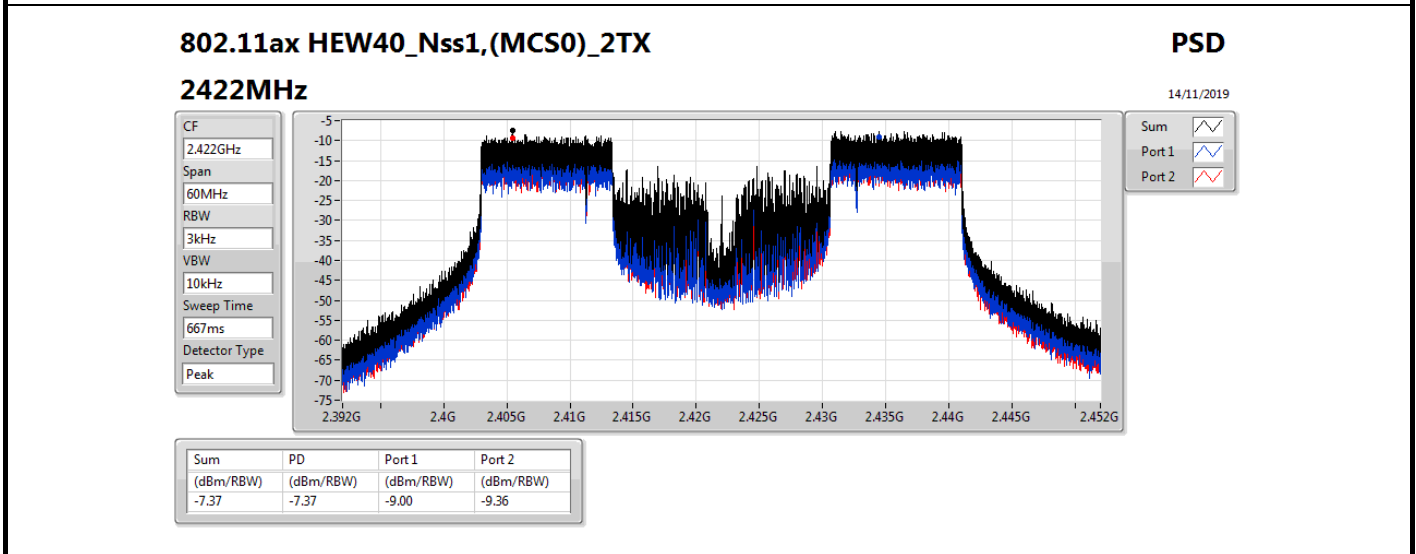
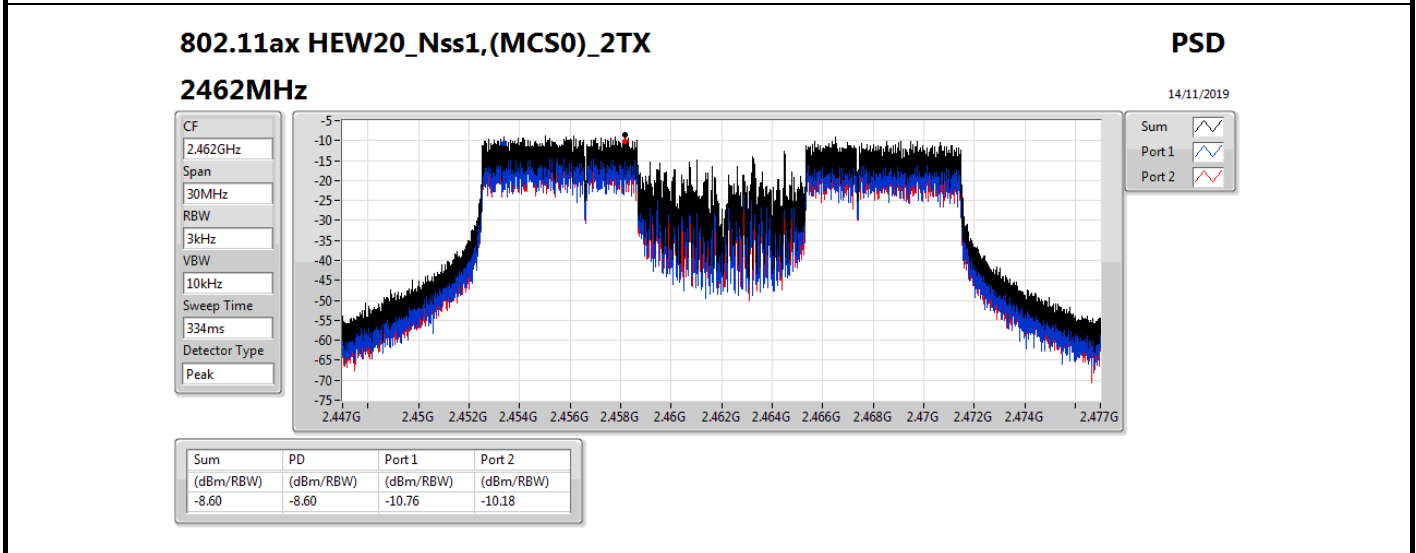
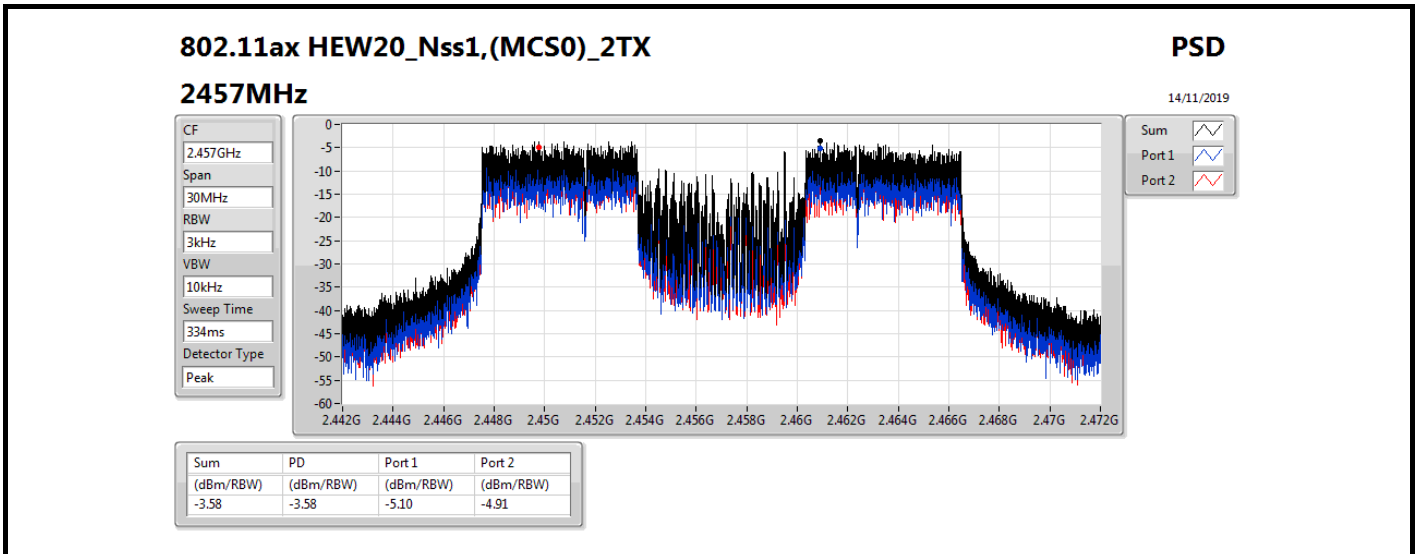
Result

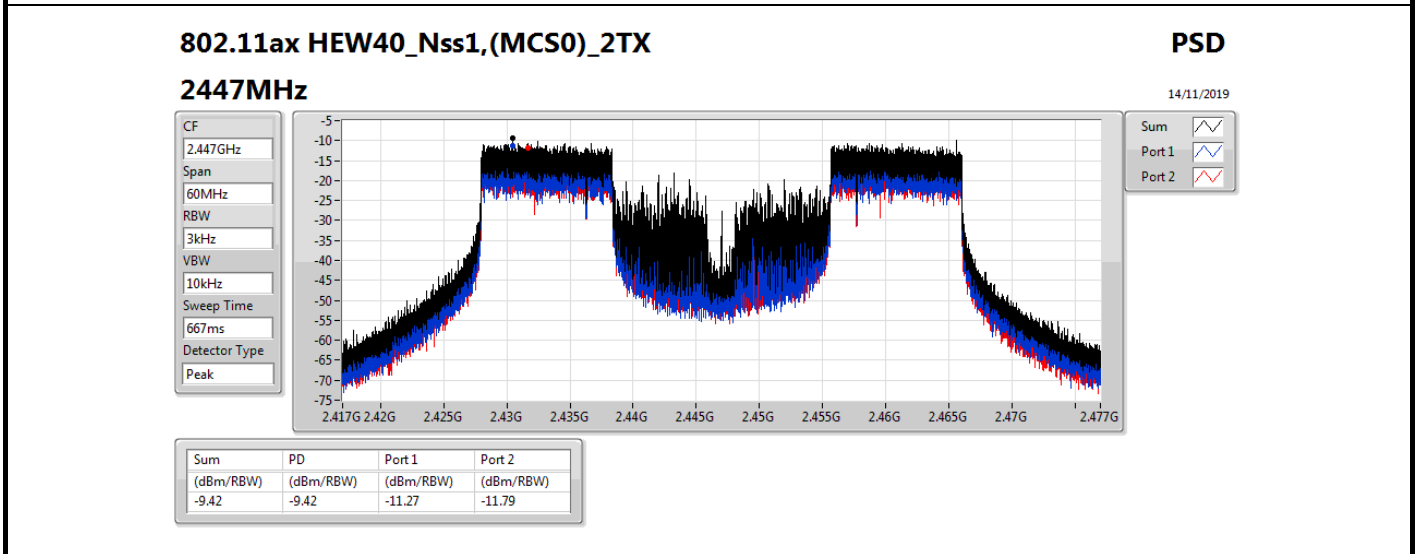
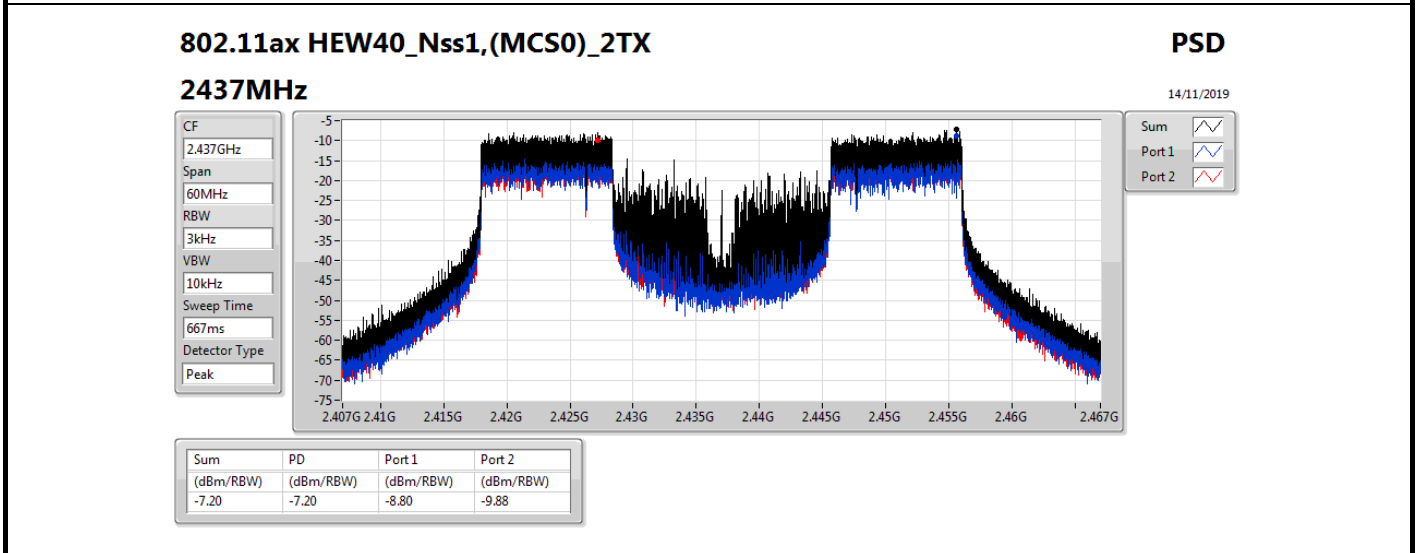
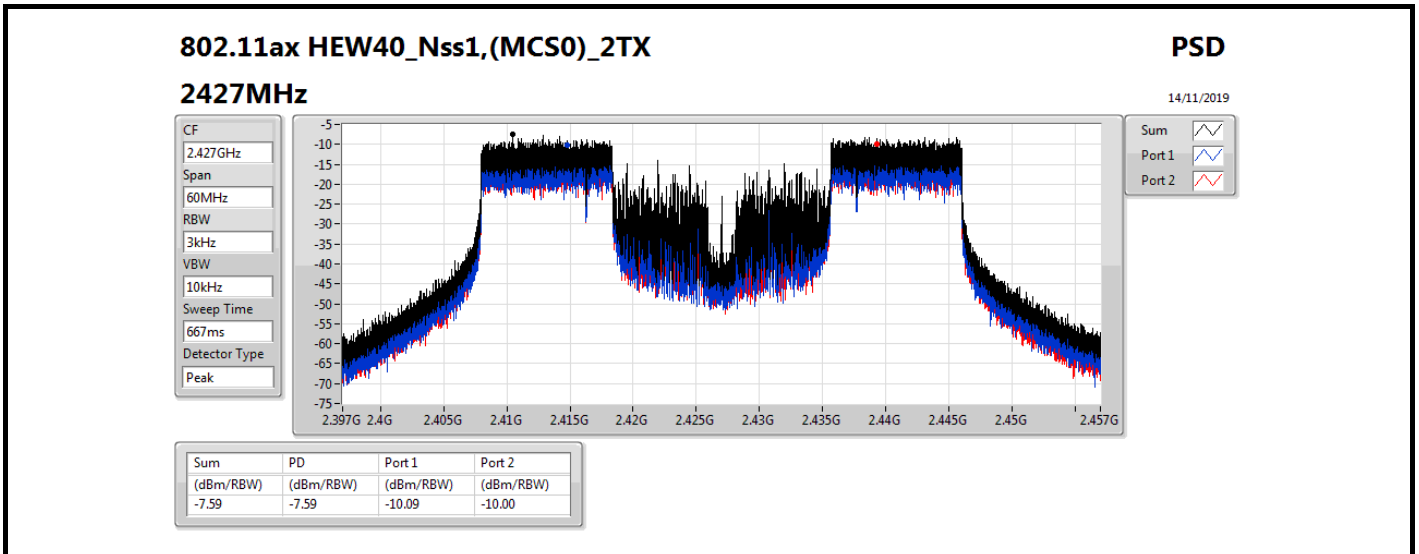
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.30	-4.59	-5.80	-3.85	8.00
2417MHz	Pass	2.30	-5.62	-5.23	-3.84	8.00
2437MHz	Pass	2.30	-4.61	-4.45	-2.86	8.00
2457MHz	Pass	2.30	-5.10	-4.91	-3.58	8.00
2462MHz	Pass	2.30	-10.76	-10.18	-8.60	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.30	-9.00	-9.36	-7.37	8.00
2427MHz	Pass	2.30	-10.09	-10.00	-7.59	8.00
2437MHz	Pass	2.30	-8.80	-9.88	-7.20	8.00
2447MHz	Pass	2.30	-11.27	-11.79	-9.42	8.00
2452MHz	Pass	2.30	-11.83	-11.45	-8.91	8.00

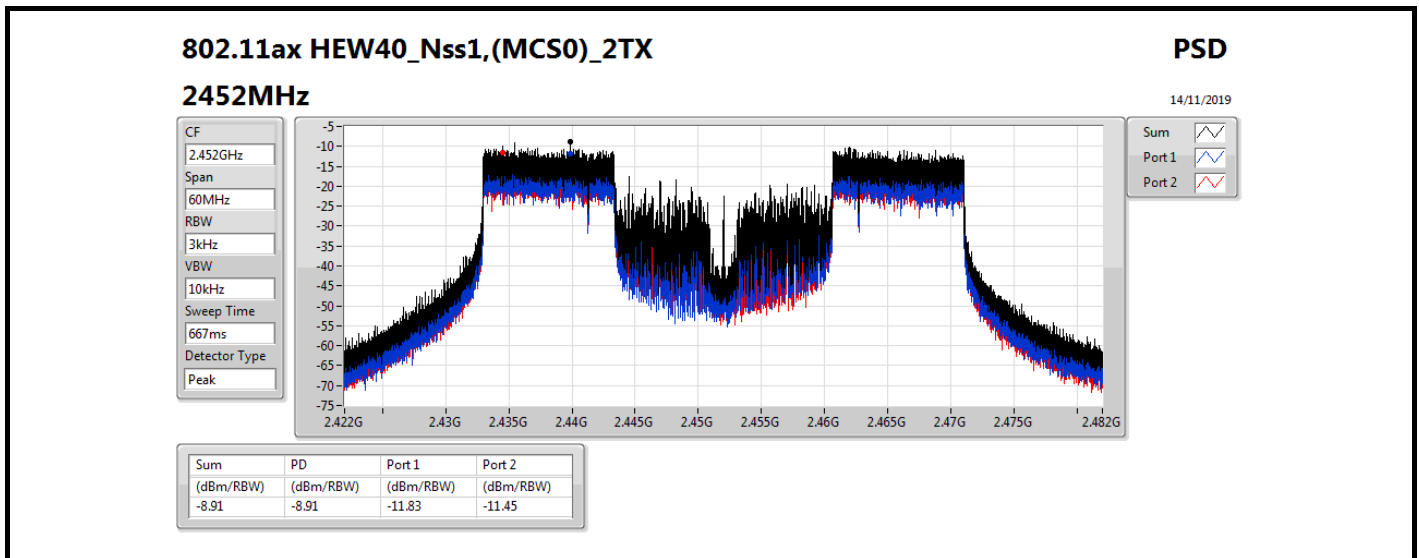
DG = Directional Gain; RBW=3 kHz;

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











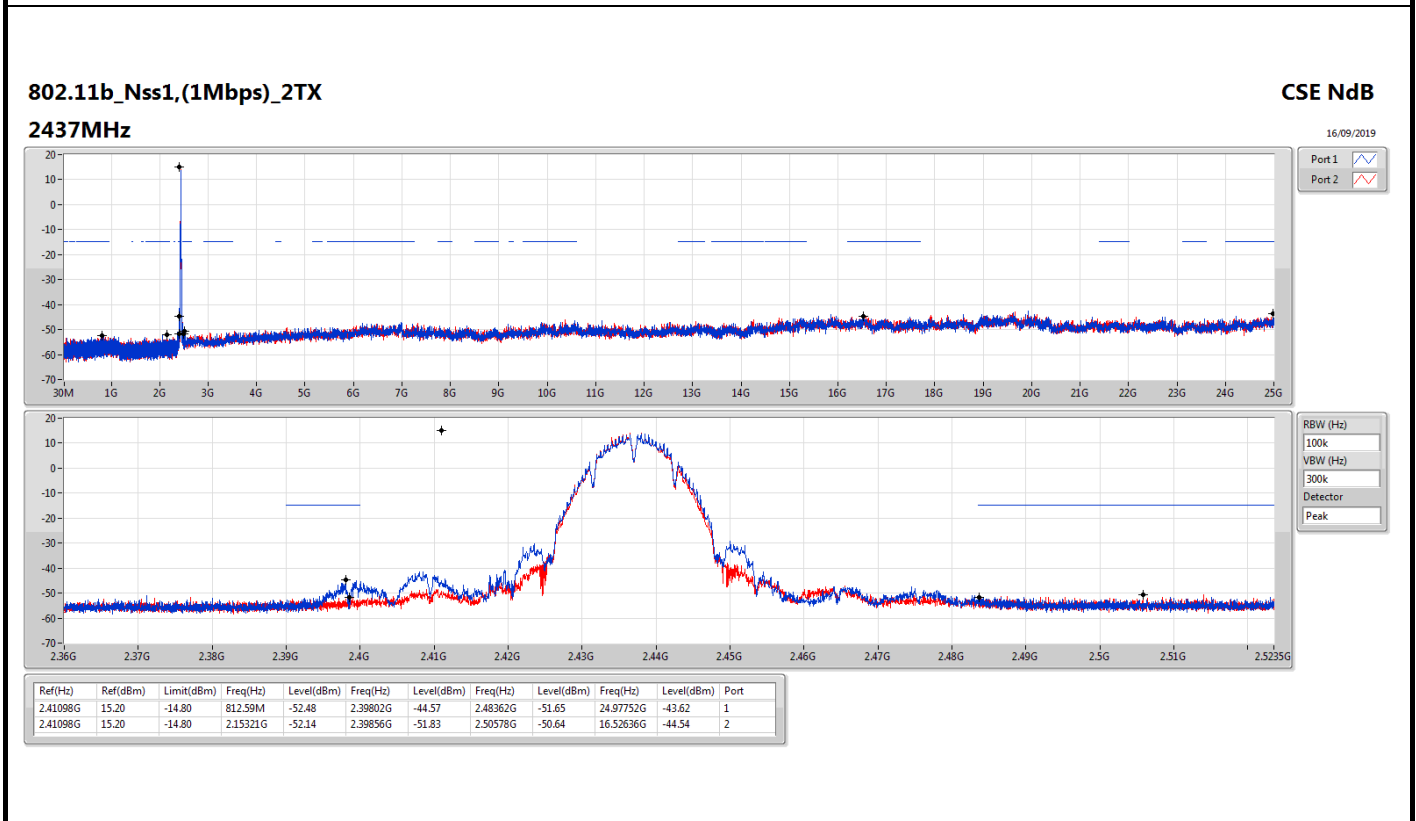
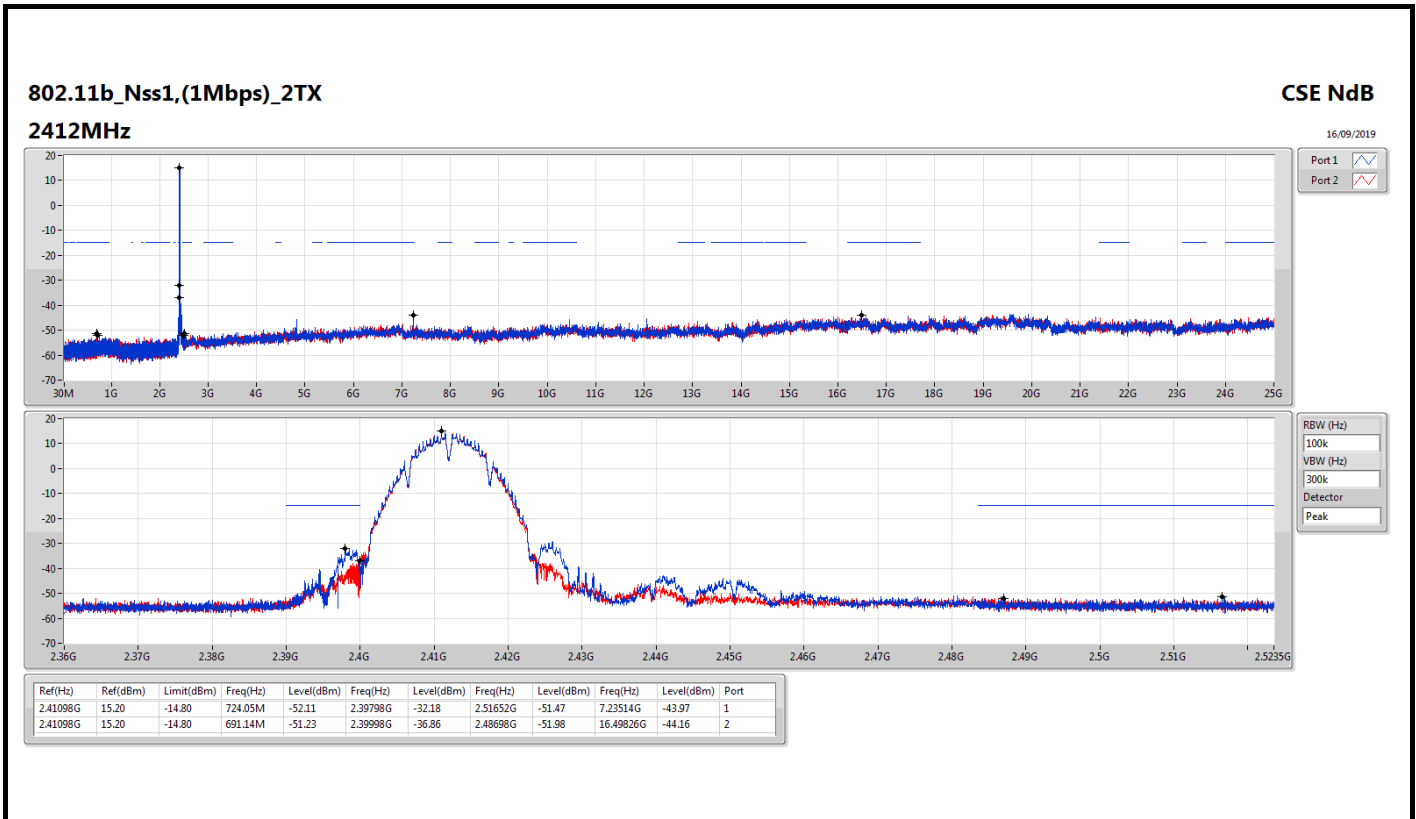
Summary

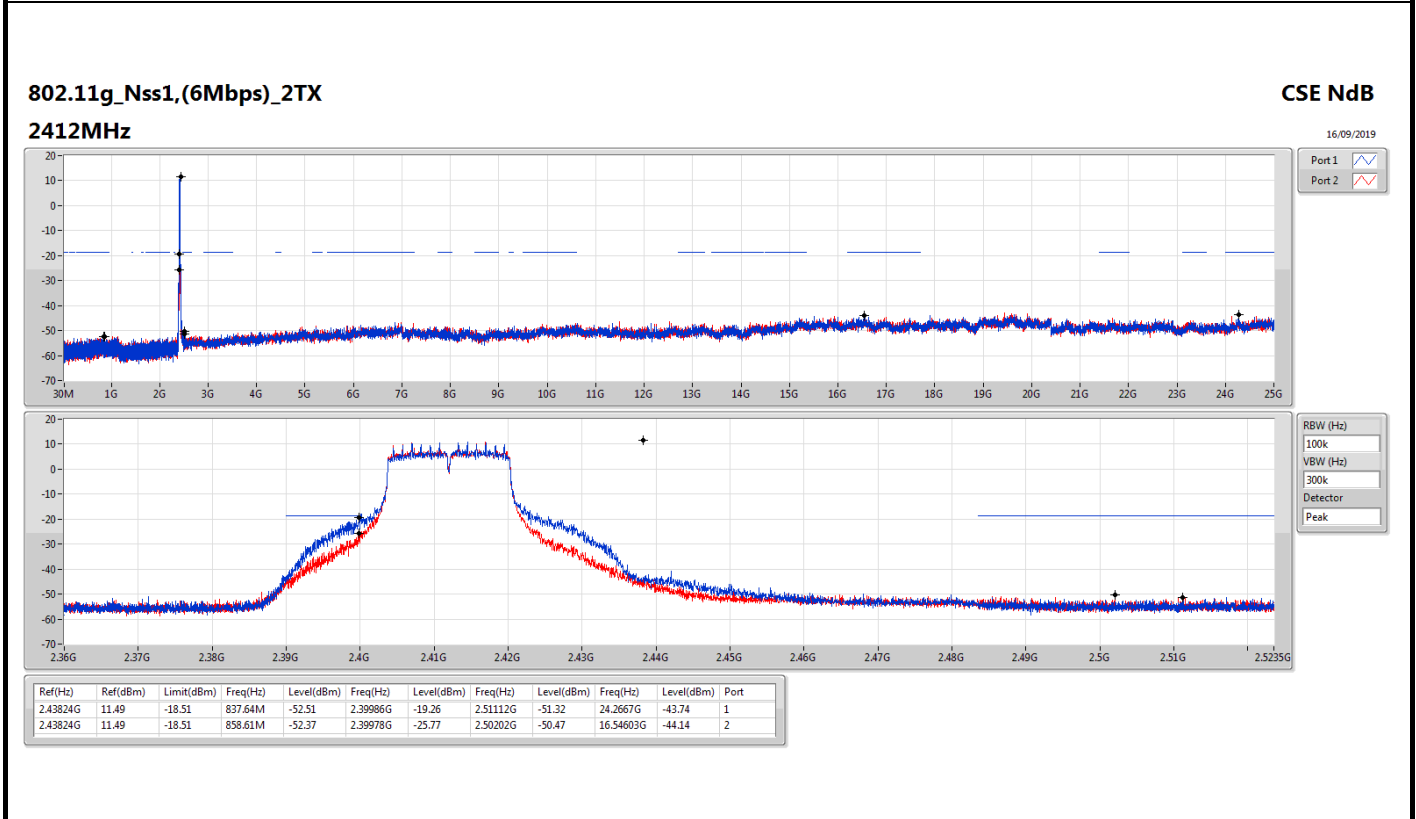
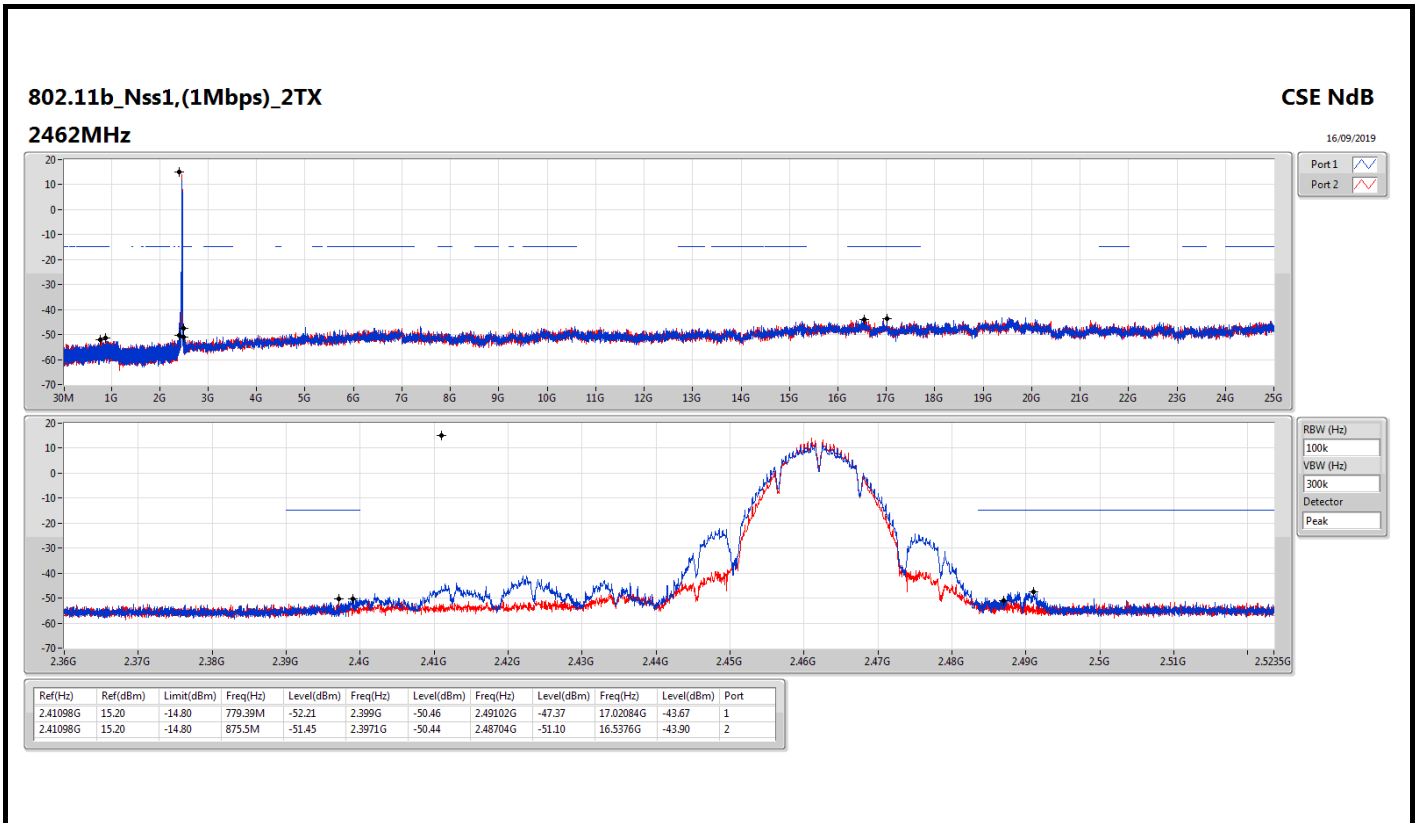
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41098G	15.20	-14.80	724.05M	-52.11	2.39798G	-32.18	2.51652G	-51.47	7.23514G	-43.97	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	11.49	-18.51	837.64M	-52.51	2.39986G	-19.26	2.51112G	-51.32	24.2667G	-43.74	1
VHT20_Nss1,(MCS0)_2TX	Pass	2.43202G	11.03	-18.97	1.94817G	-52.58	2.3998G	-23.61	2.486G	-50.65	17.55747G	-43.84	1
VHT40_Nss1,(MCS0)_2TX	Pass	2.43198G	6.68	-23.32	1.8182G	-52.19	2.39952G	-29.88	2.48698G	-48.77	16.3928G	-44.36	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	11.72	-18.28	945.98M	-52.57	2.39928G	-21.35	2.48976G	-50.89	16.25945G	-43.91	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.442G	7.03	-22.97	829.78M	-52.05	2.39768G	-28.07	2.48398G	-50.26	16.87518G	-44.09	1

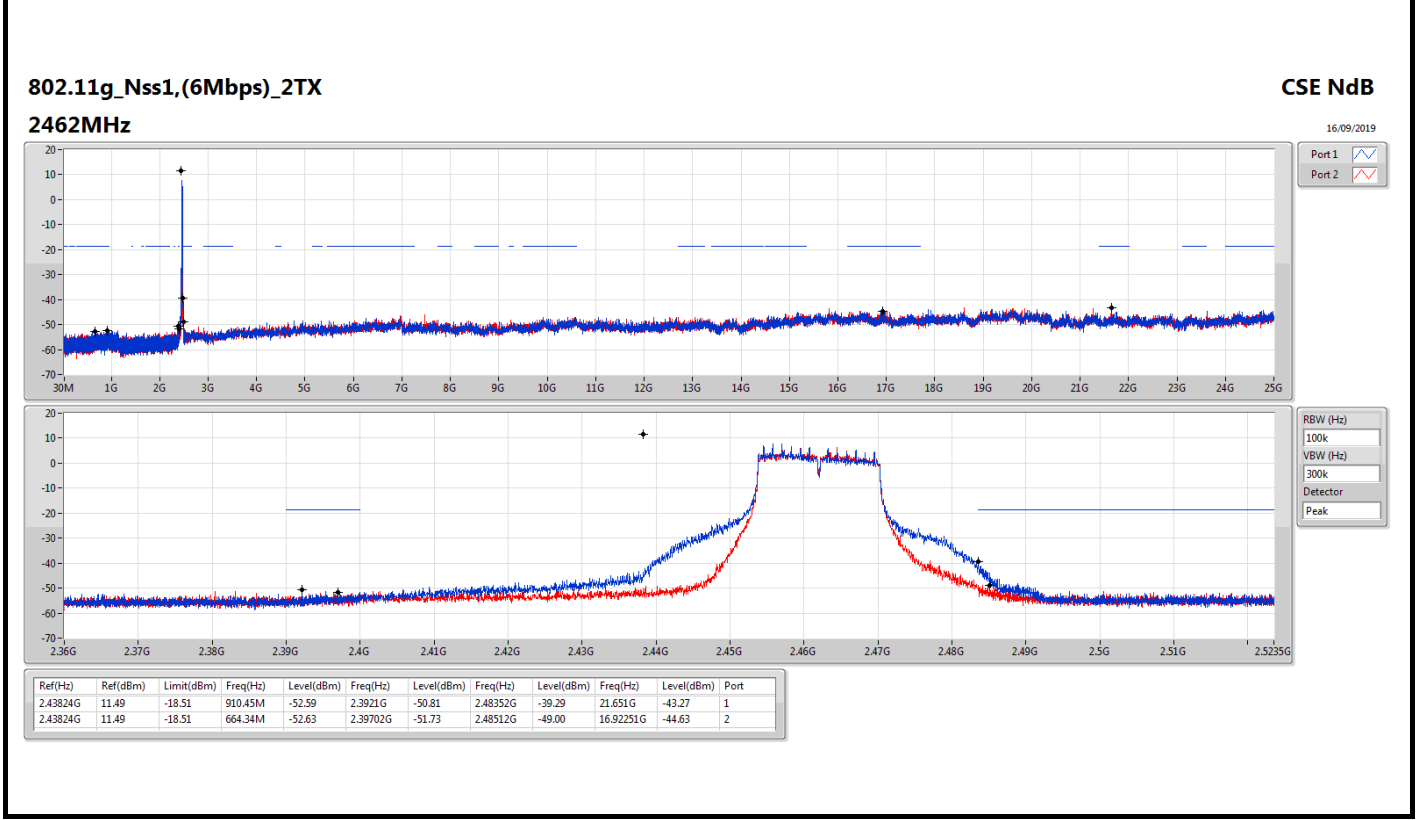
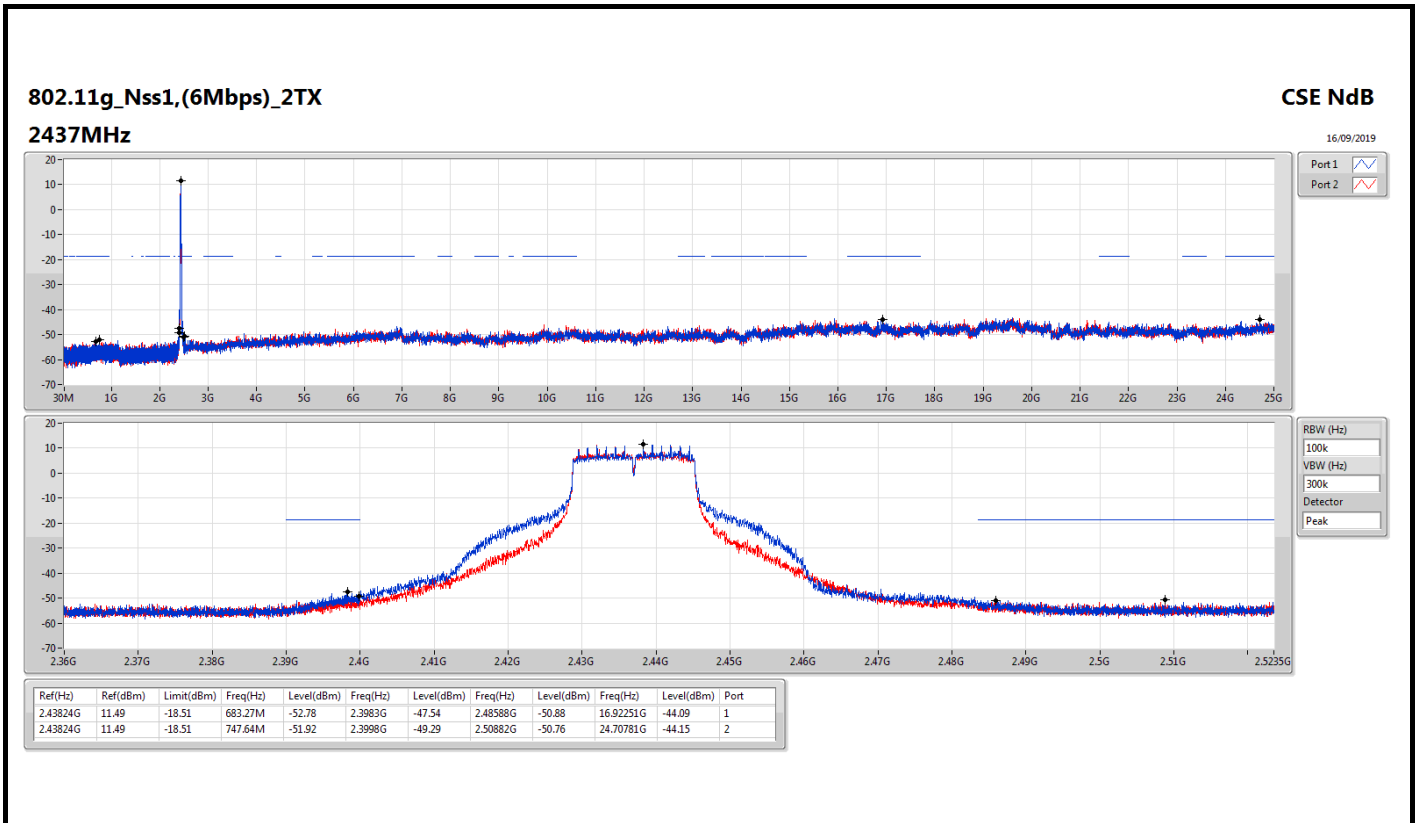


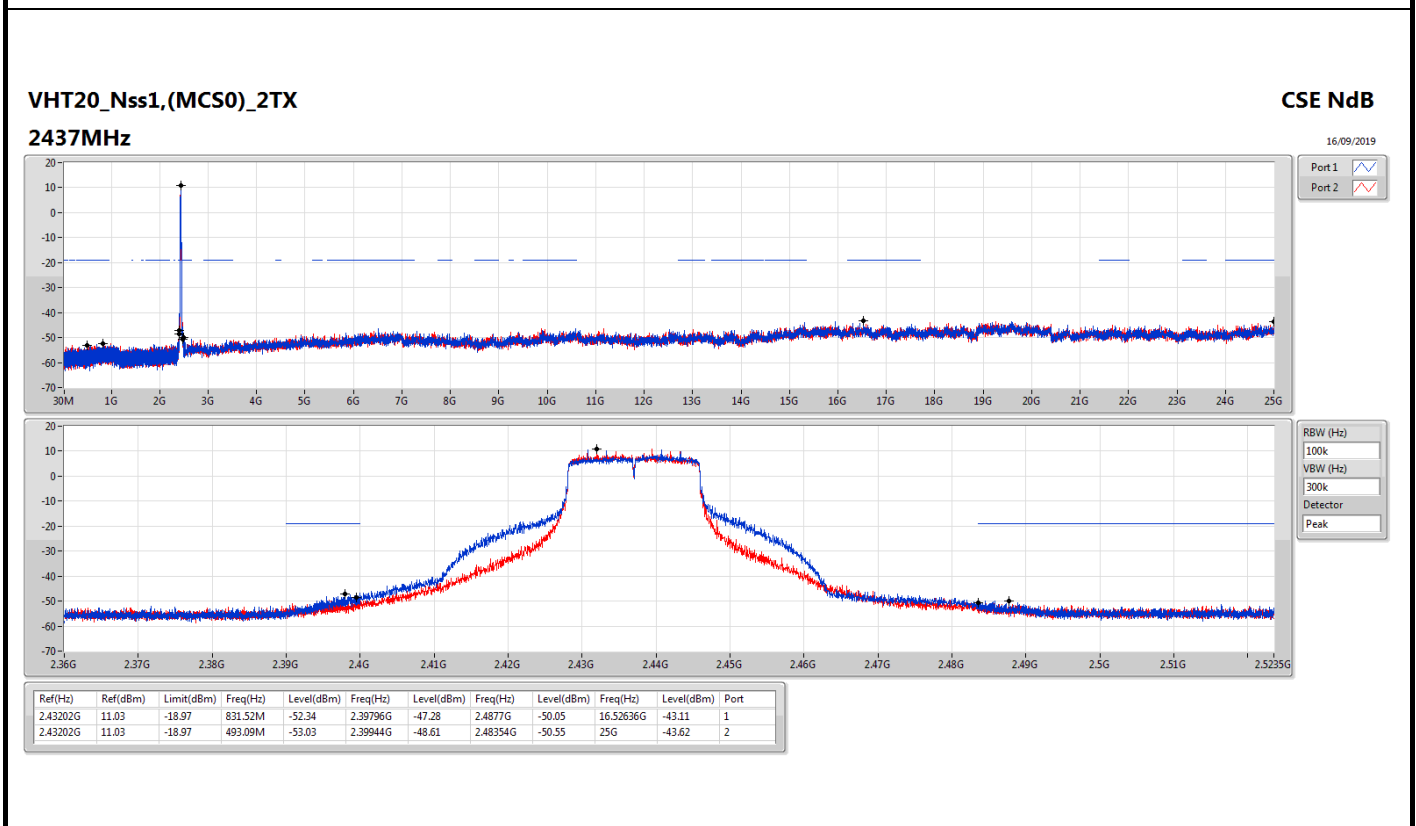
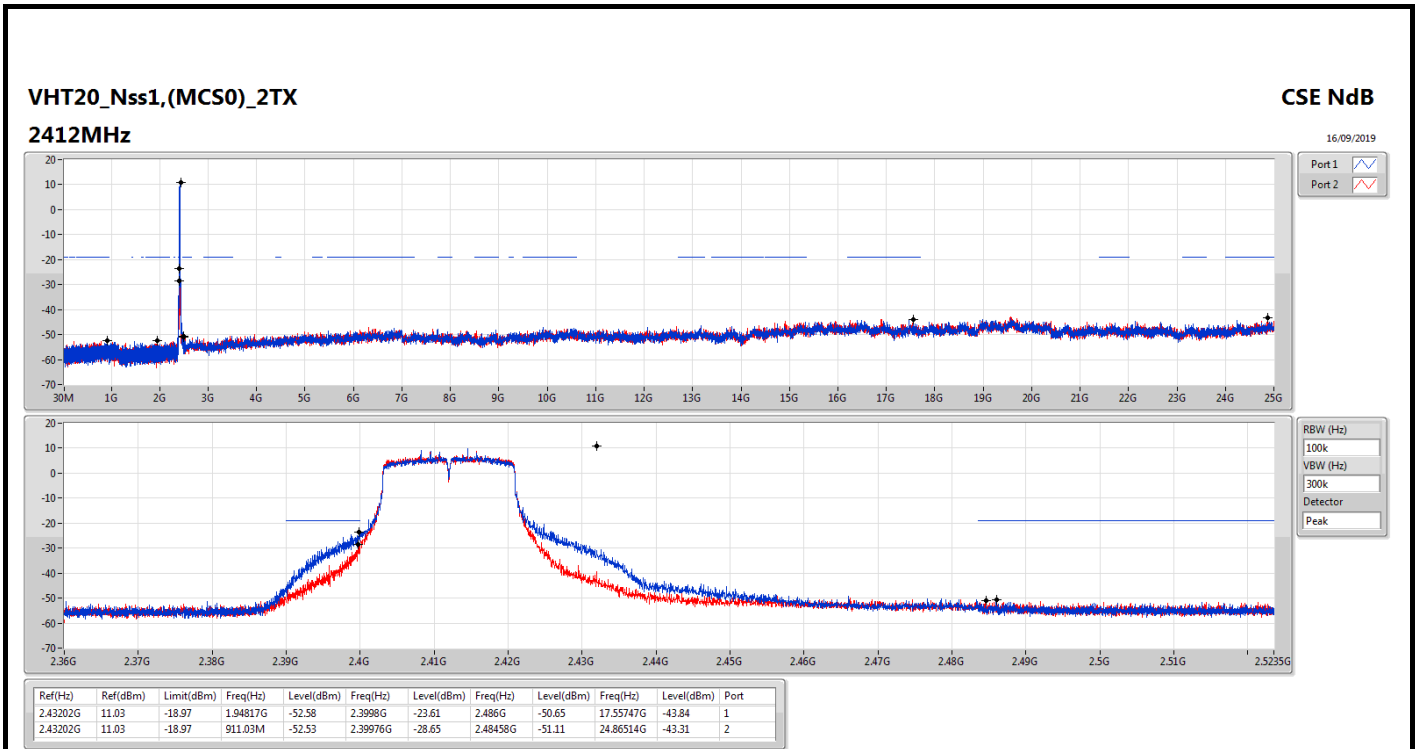
Result

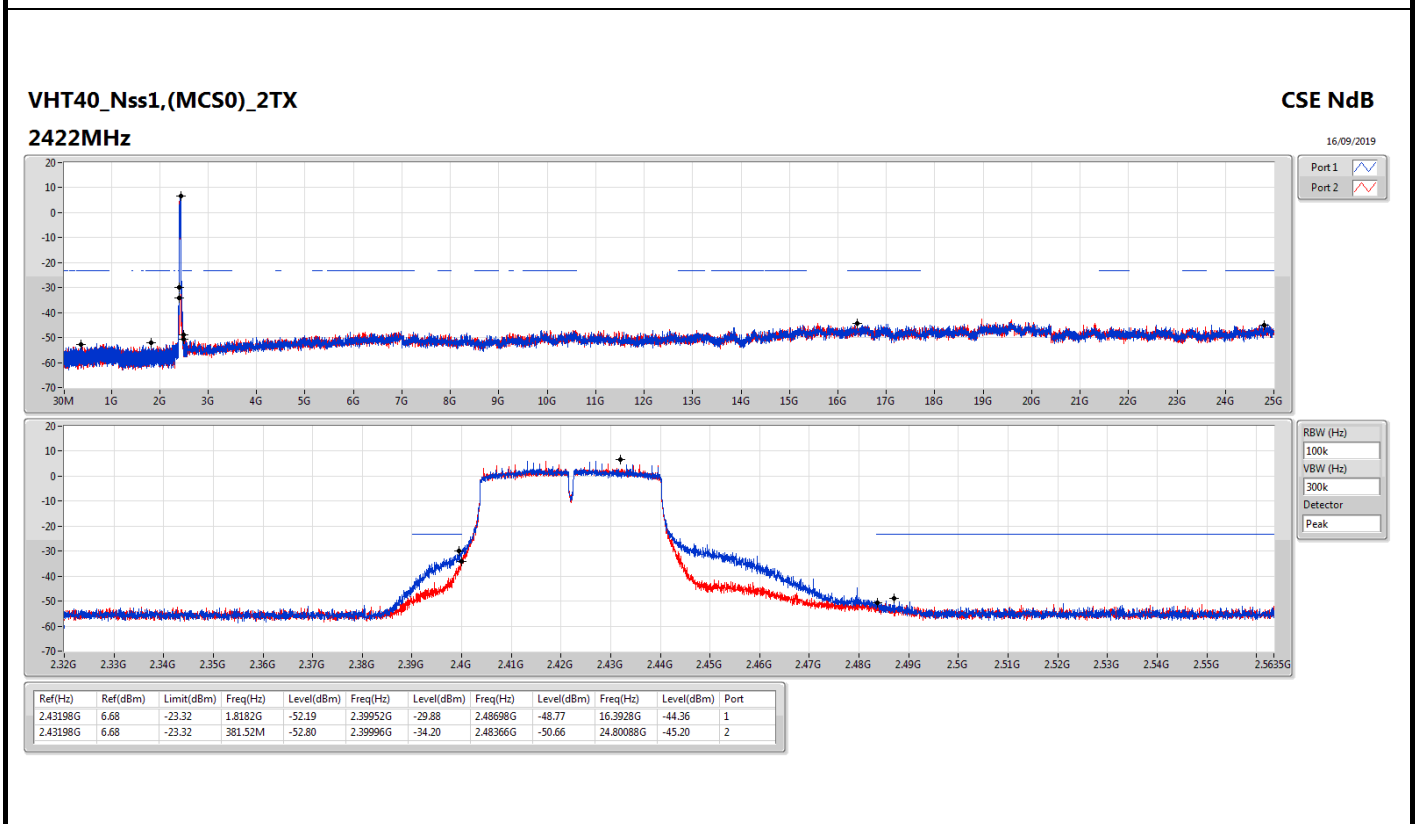
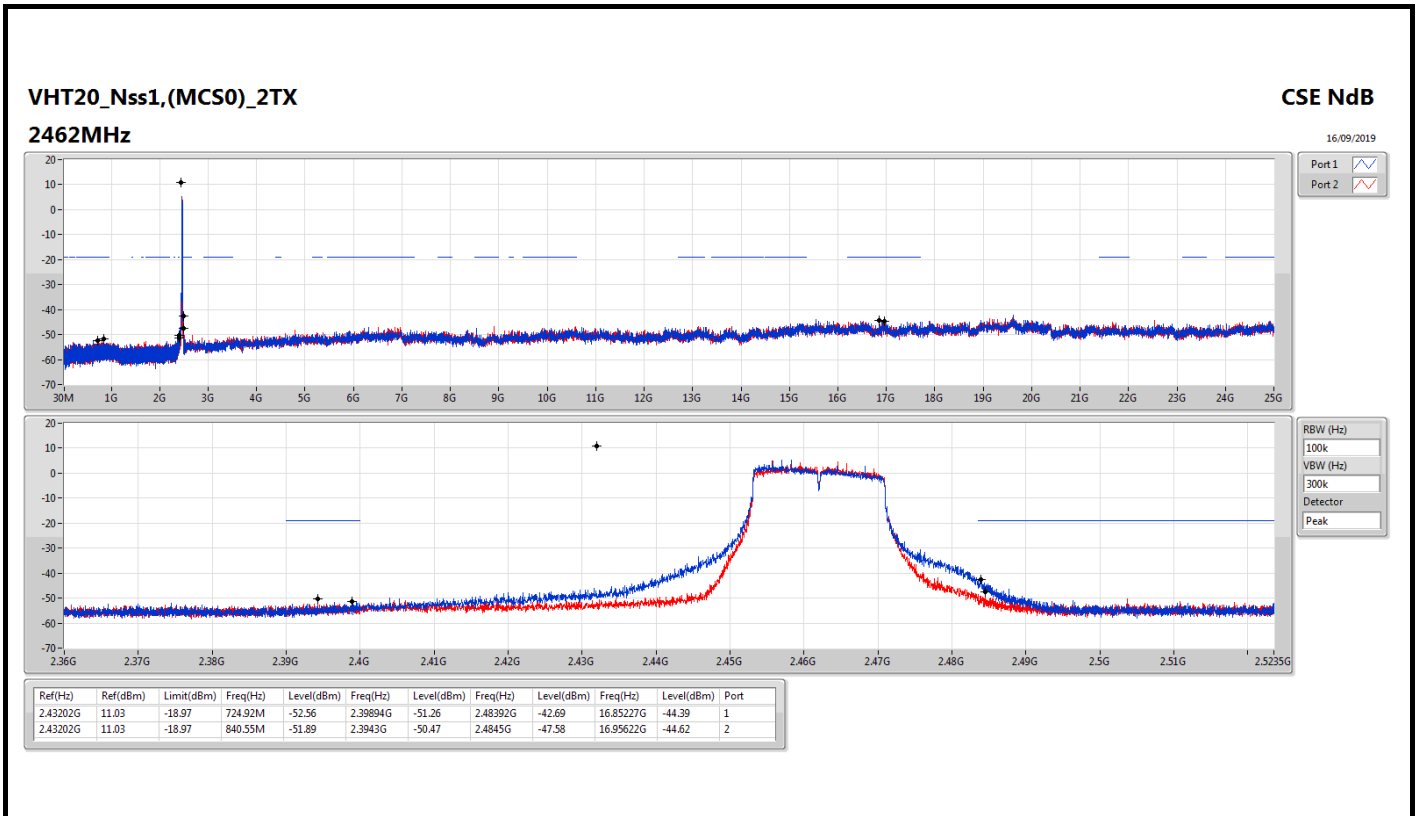
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41098G	15.20	-14.80	724.05M	-52.11	2.39798G	-32.18	2.51652G	-51.47	7.23514G	-43.97	1
2412MHz	Pass	2.41098G	15.20	-14.80	691.14M	-51.23	2.39998G	-36.86	2.48698G	-51.98	16.49826G	-44.16	2
2437MHz	Pass	2.41098G	15.20	-14.80	812.59M	-52.48	2.39802G	-44.57	2.48362G	-51.65	24.97752G	-43.62	1
2437MHz	Pass	2.41098G	15.20	-14.80	2.15321G	-52.14	2.39856G	-51.83	2.50578G	-50.64	16.52636G	-44.54	2
2462MHz	Pass	2.41098G	15.20	-14.80	779.39M	-52.21	2.399G	-50.46	2.49102G	-47.37	17.02084G	-43.67	1
2462MHz	Pass	2.41098G	15.20	-14.80	875.5M	-51.45	2.3971G	-50.44	2.48704G	-51.10	16.5376G	-43.90	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	11.49	-18.51	837.64M	-52.51	2.39986G	-19.26	2.51112G	-51.32	24.2667G	-43.74	1
2412MHz	Pass	2.43824G	11.49	-18.51	858.61M	-52.37	2.39978G	-25.77	2.50202G	-50.47	16.54603G	-44.14	2
2437MHz	Pass	2.43824G	11.49	-18.51	683.27M	-52.78	2.3983G	-47.54	2.48588G	-50.88	16.92251G	-44.09	1
2437MHz	Pass	2.43824G	11.49	-18.51	747.64M	-51.92	2.3998G	-49.29	2.50882G	-50.76	24.70781G	-44.15	2
2462MHz	Pass	2.43824G	11.49	-18.51	910.45M	-52.59	2.3921G	-50.81	2.48352G	-39.29	21.651G	-43.27	1
2462MHz	Pass	2.43824G	11.49	-18.51	664.34M	-52.63	2.39702G	-51.73	2.48512G	-49.00	16.92251G	-44.63	2
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	11.03	-18.97	1.94817G	-52.58	2.3998G	-23.61	2.486G	-50.65	17.55747G	-43.84	1
2412MHz	Pass	2.43202G	11.03	-18.97	911.03M	-52.53	2.39976G	-28.65	2.48458G	-51.11	24.86514G	-43.31	2
2437MHz	Pass	2.43202G	11.03	-18.97	831.52M	-52.34	2.39796G	-47.28	2.4877G	-50.05	16.52636G	-43.11	1
2437MHz	Pass	2.43202G	11.03	-18.97	493.09M	-53.03	2.39944G	-48.61	2.48354G	-50.55	25G	-43.62	2
2462MHz	Pass	2.43202G	11.03	-18.97	724.92M	-52.56	2.39894G	-51.26	2.48392G	-42.69	16.85227G	-44.39	1
2462MHz	Pass	2.43202G	11.03	-18.97	840.55M	-51.89	2.3943G	-50.47	2.4845G	-47.58	16.95622G	-44.62	2
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	6.68	-23.32	1.8182G	-52.19	2.39952G	-29.88	2.48698G	-48.77	16.3928G	-44.36	1
2422MHz	Pass	2.43198G	6.68	-23.32	381.52M	-52.80	2.39996G	-34.20	2.48366G	-50.66	24.80088G	-45.20	2
2437MHz	Pass	2.43198G	6.68	-23.32	864.13M	-53.17	2.39884G	-33.95	2.48574G	-40.92	24.66626G	-44.03	1
2437MHz	Pass	2.43198G	6.68	-23.32	1.64874G	-51.81	2.39924G	-43.92	2.48354G	-47.70	16.90042G	-44.46	2
2452MHz	Pass	2.43198G	6.68	-23.32	924.25M	-51.32	2.39884G	-50.03	2.48394G	-38.57	17.4978G	-44.59	1
2452MHz	Pass	2.43198G	6.68	-23.32	829.21M	-52.60	2.39708G	-51.40	2.48698G	-43.23	16.54144G	-44.75	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	11.72	-18.28	945.98M	-52.57	2.39928G	-21.35	2.48976G	-50.89	16.25945G	-43.91	1
2412MHz	Pass	2.442G	11.72	-18.28	842.01M	-51.35	2.39992G	-26.04	2.51794G	-51.03	24.84828G	-44.09	2
2437MHz	Pass	2.442G	11.72	-18.28	937.24M	-51.08	2.39986G	-44.12	2.48592G	-49.56	16.38869G	-43.22	1
2437MHz	Pass	2.442G	11.72	-18.28	2.16195G	-52.25	2.39928G	-48.01	2.4836G	-49.55	16.49264G	-43.70	2
2462MHz	Pass	2.442G	11.72	-18.28	846.67M	-52.97	2.39464G	-51.65	2.4836G	-39.17	16.58817G	-43.88	1
2462MHz	Pass	2.442G	11.72	-18.28	2.00031G	-53.08	2.39754G	-50.83	2.48418G	-46.61	16.96184G	-44.23	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.442G	7.03	-22.97	829.78M	-52.05	2.39768G	-28.07	2.48398G	-50.26	16.87518G	-44.09	1
2422MHz	Pass	2.442G	7.03	-22.97	727.31M	-52.57	2.39988G	-34.49	2.48542G	-50.75	24.73918G	-44.21	2
2437MHz	Pass	2.442G	7.03	-22.97	718.43M	-51.72	2.39964G	-32.79	2.48486G	-40.10	16.53022G	-43.00	1
2437MHz	Pass	2.442G	7.03	-22.97	2.07926G	-52.87	2.3992G	-41.55	2.48374G	-46.05	16.51059G	-43.85	2
2452MHz	Pass	2.442G	7.03	-22.97	869.86M	-51.21	2.39708G	-48.88	2.48642G	-37.58	24.95793G	-43.60	1
2452MHz	Pass	2.442G	7.03	-22.97	399.26M	-52.50	2.39992G	-50.88	2.48542G	-42.57	24.92989G	-43.81	2

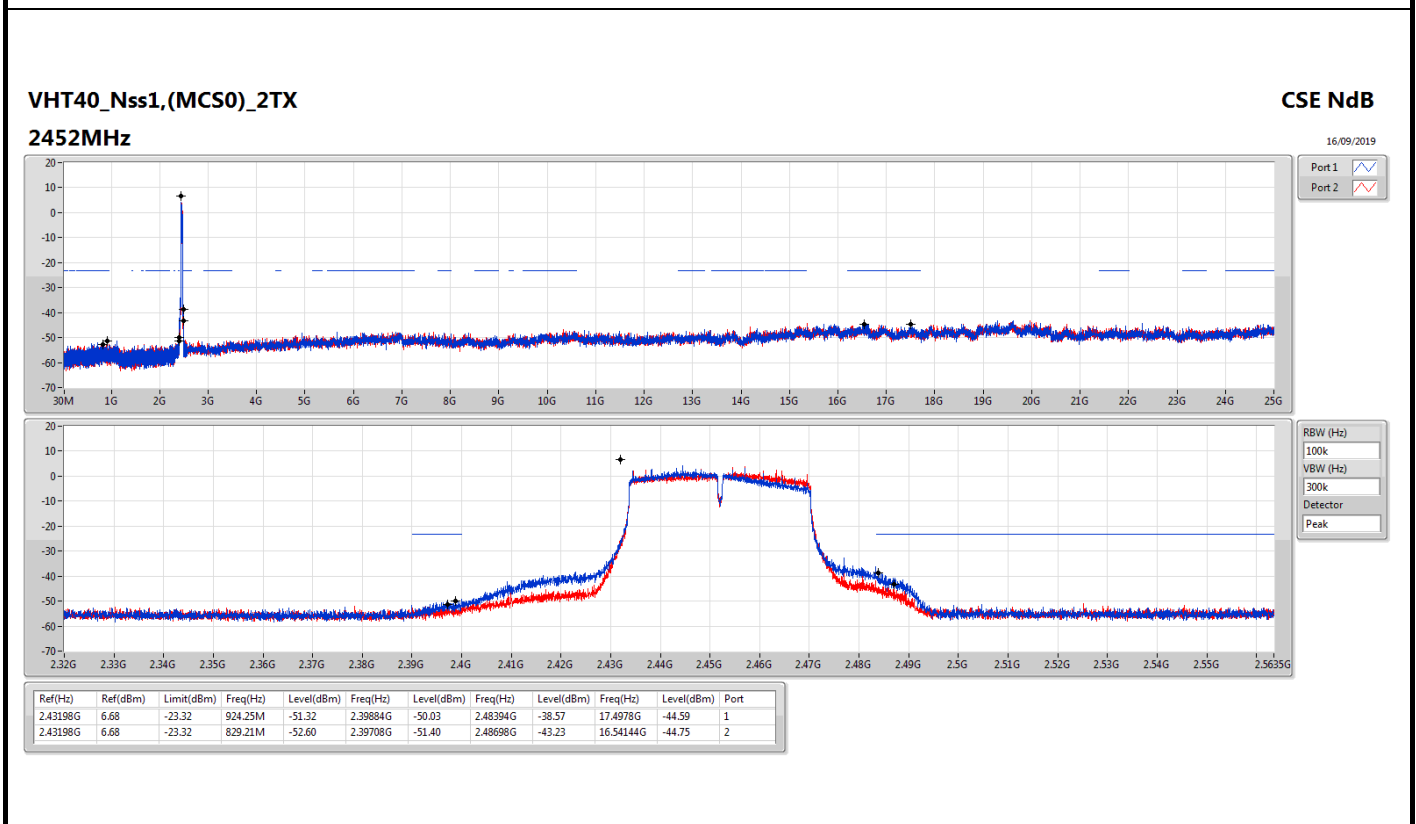
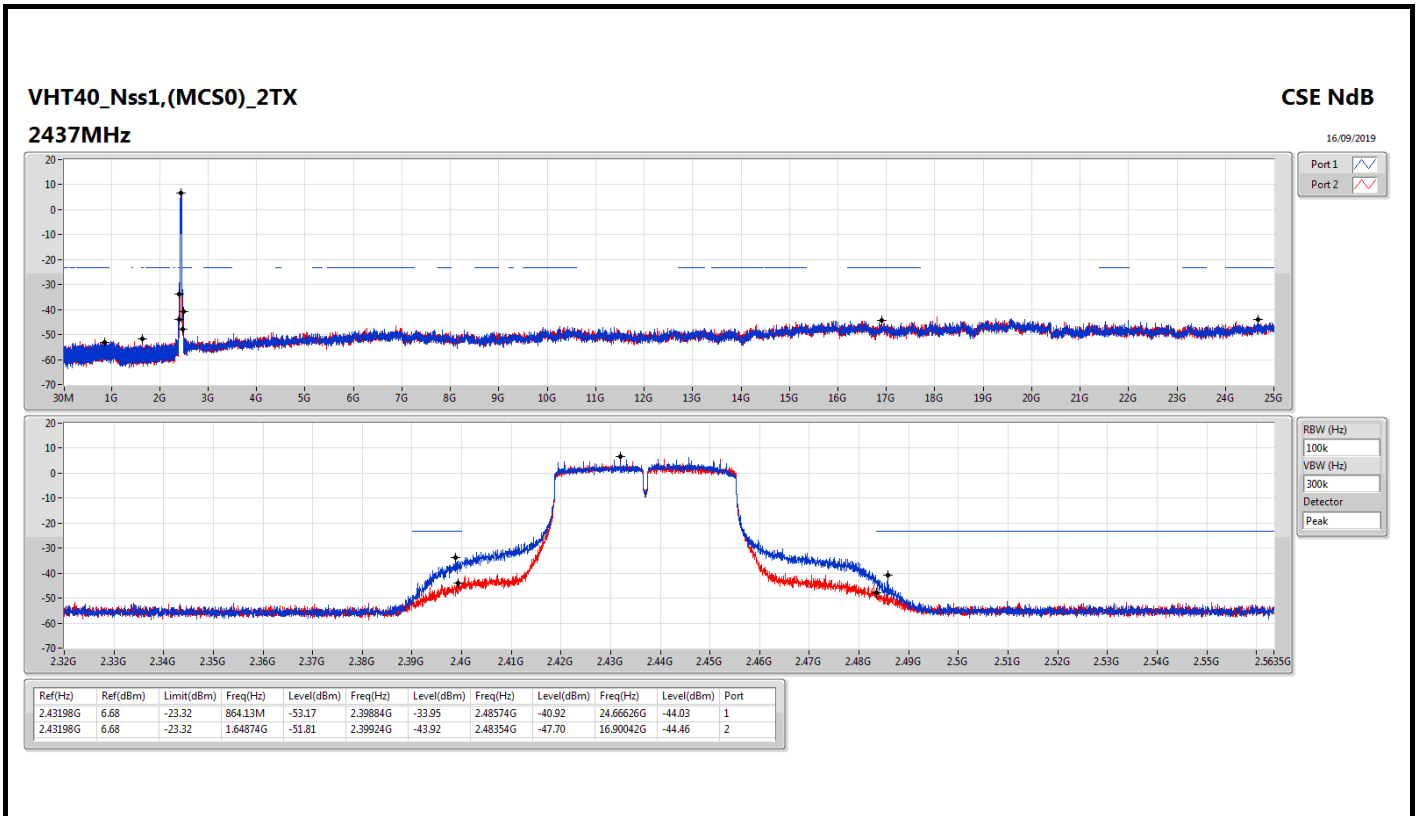


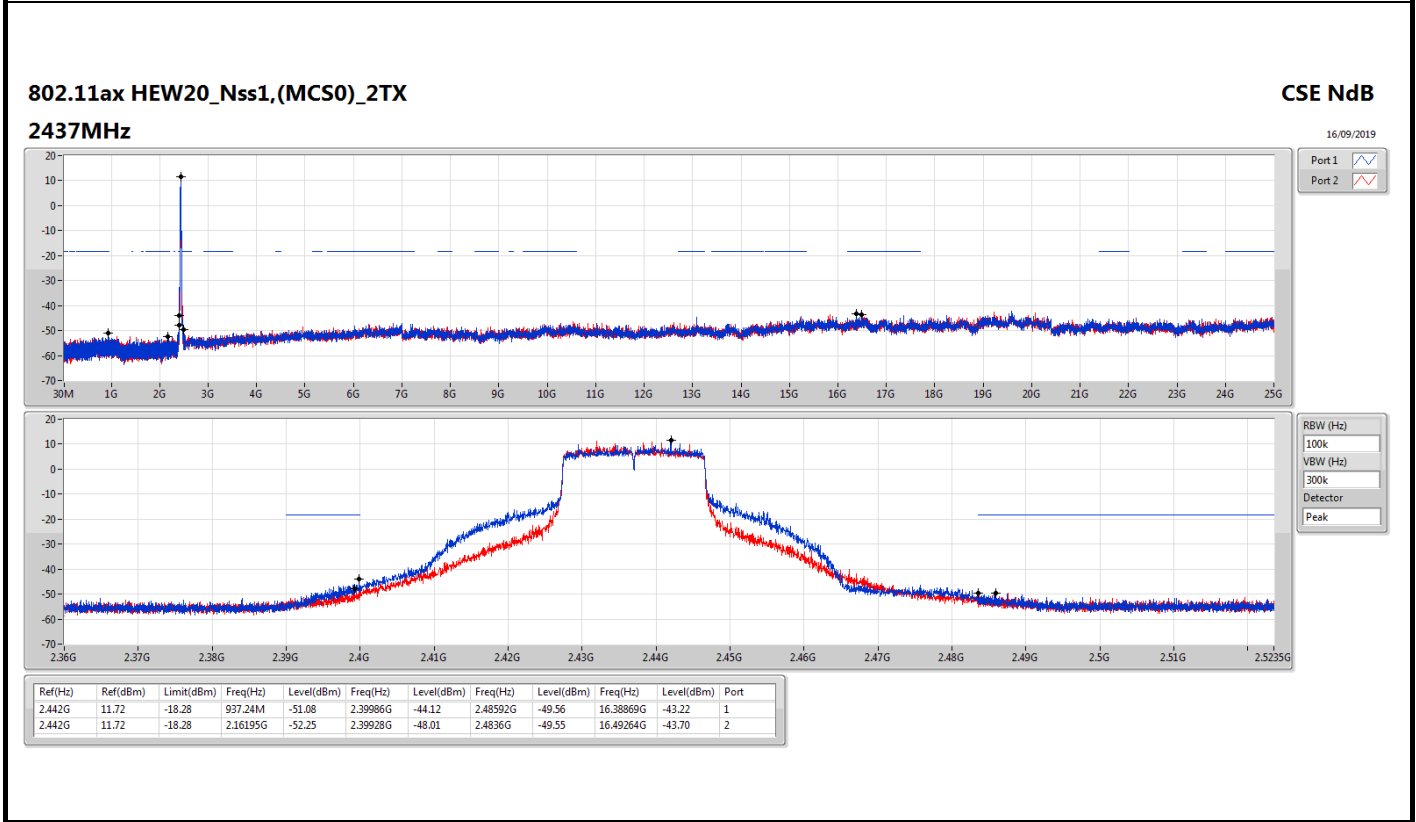
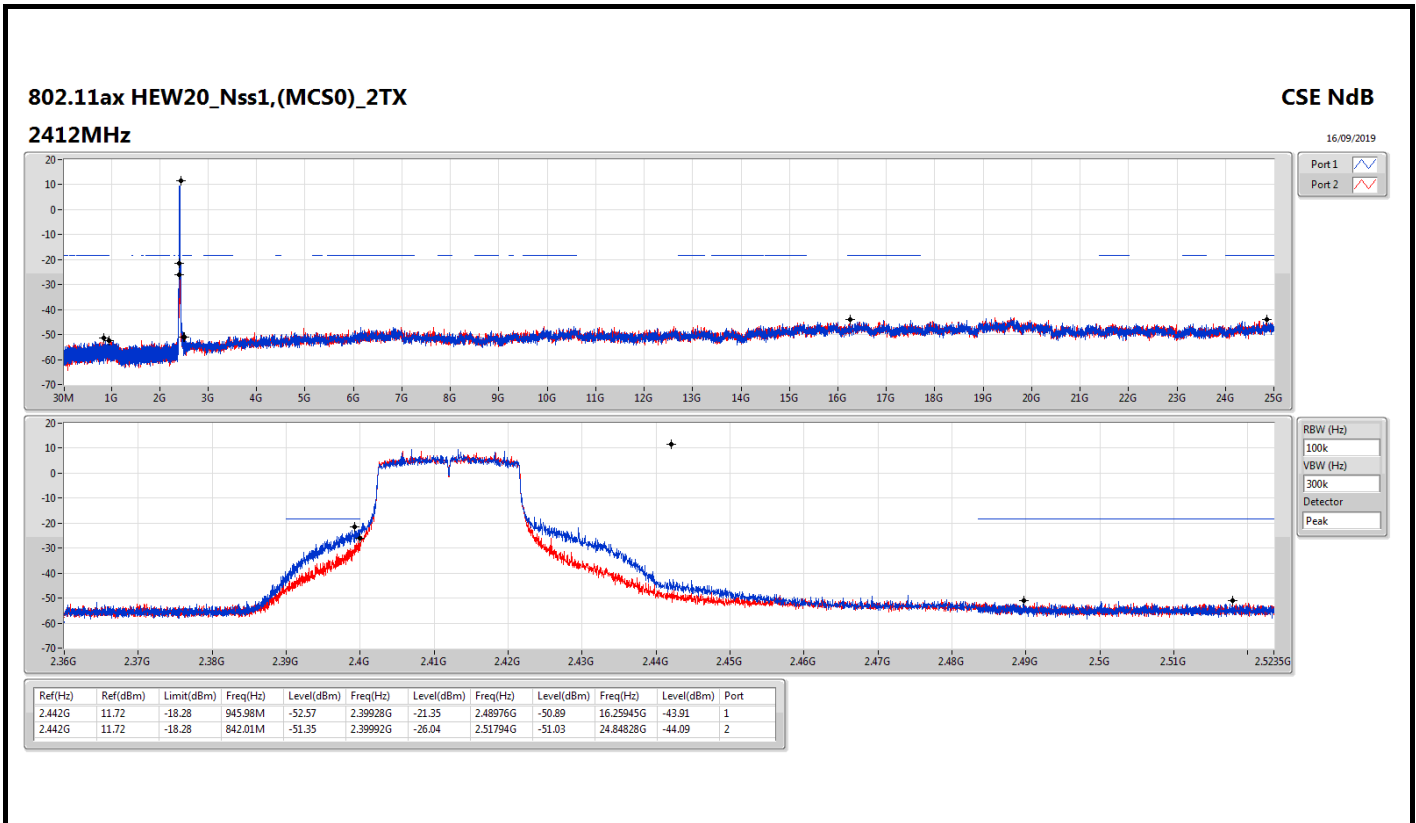


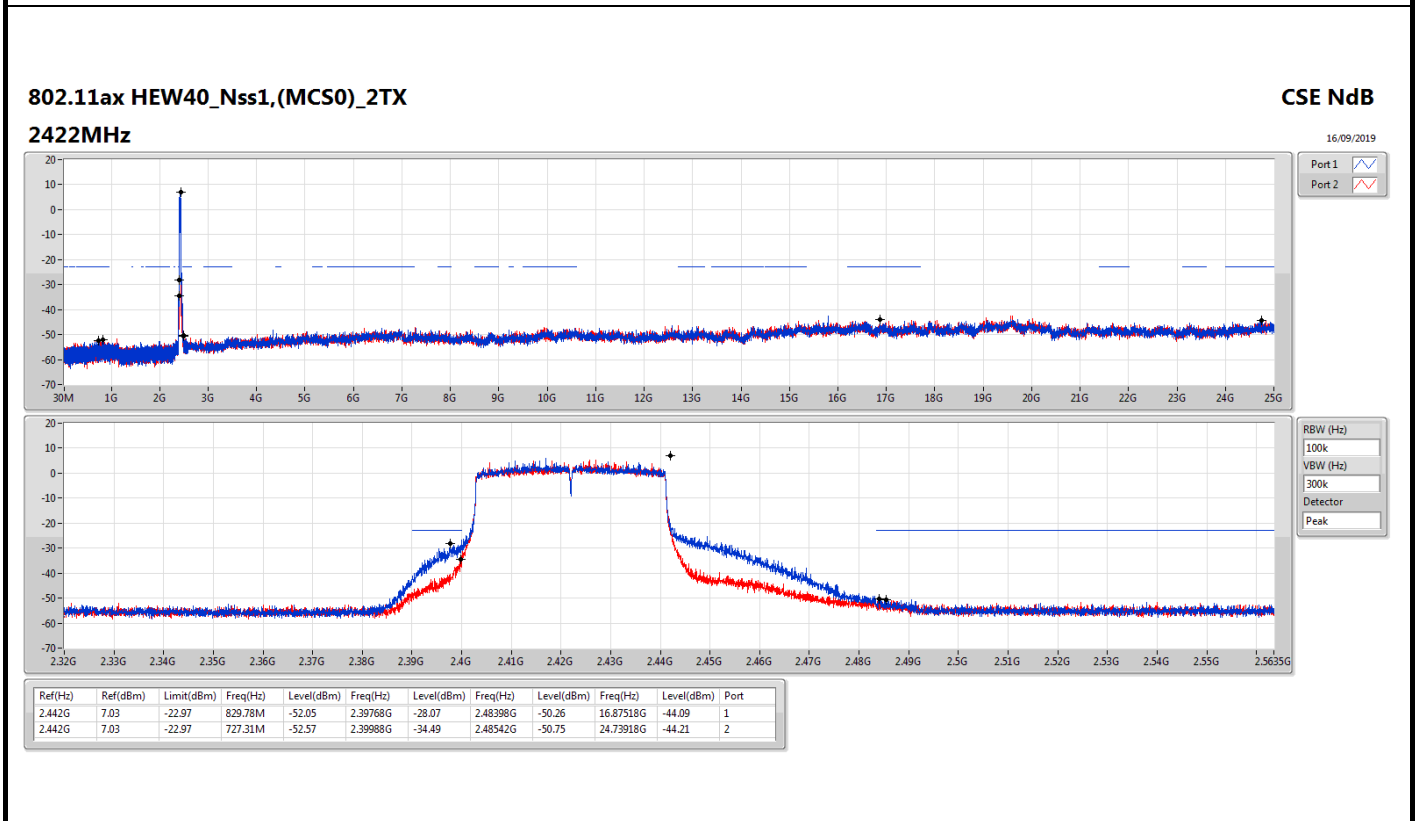
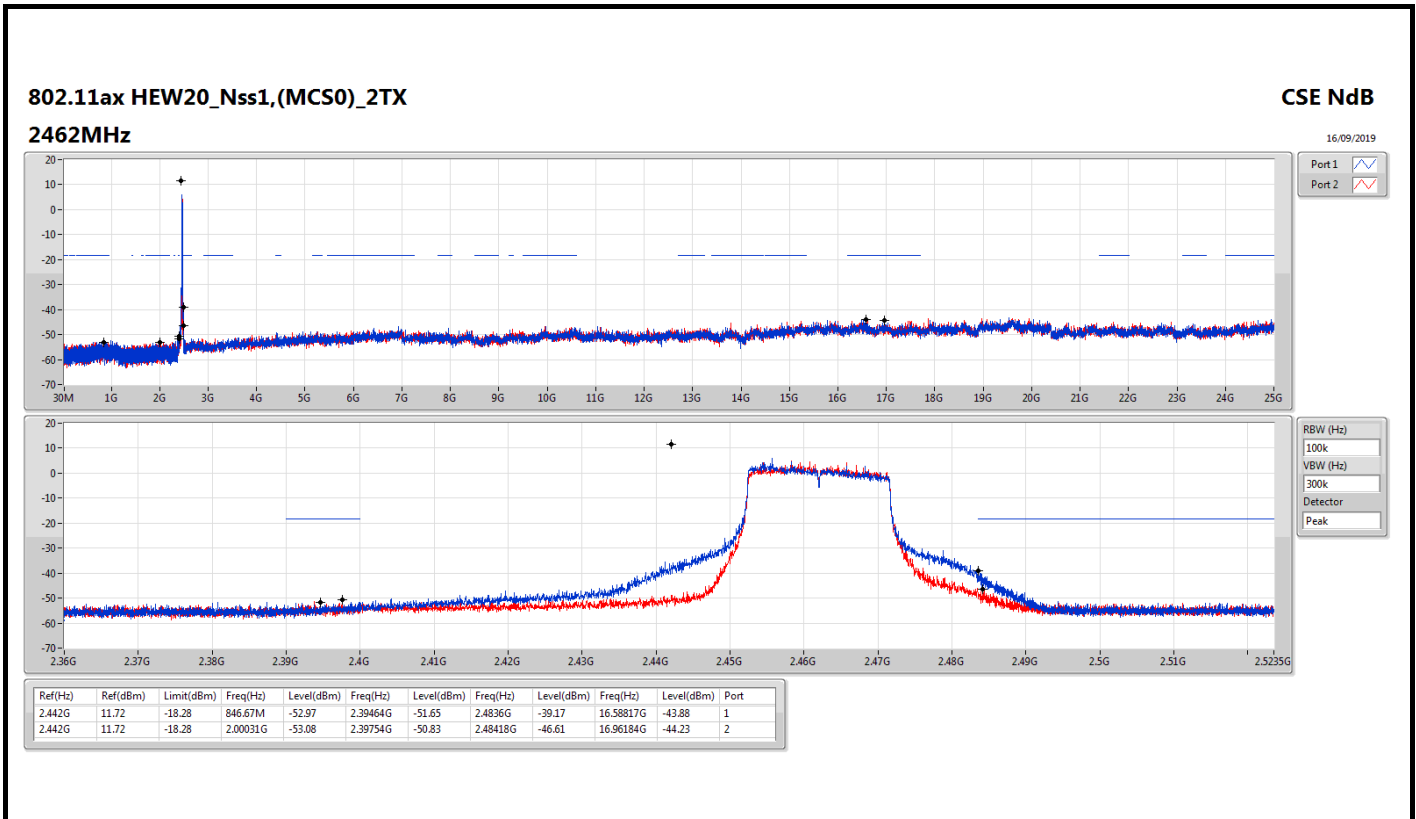


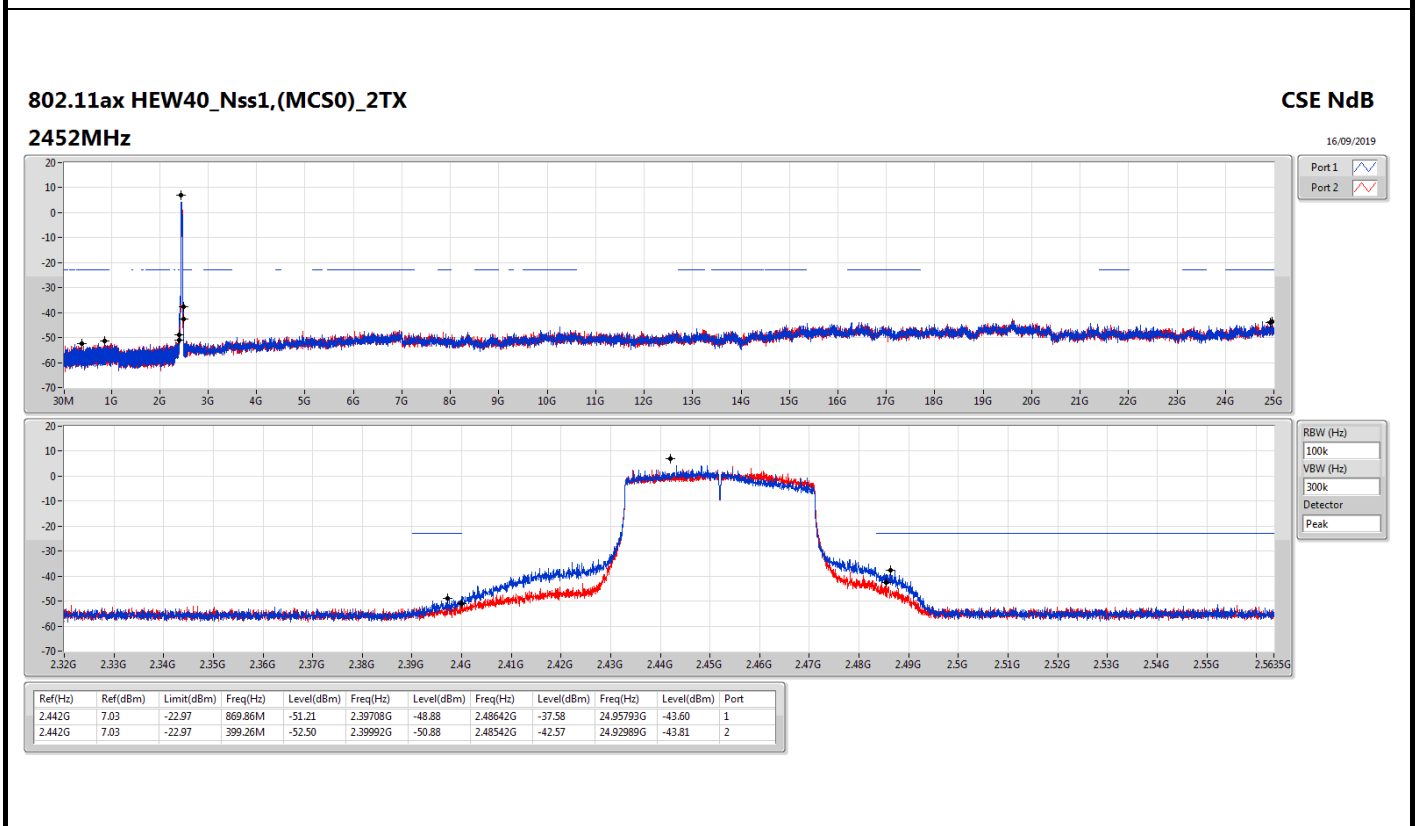
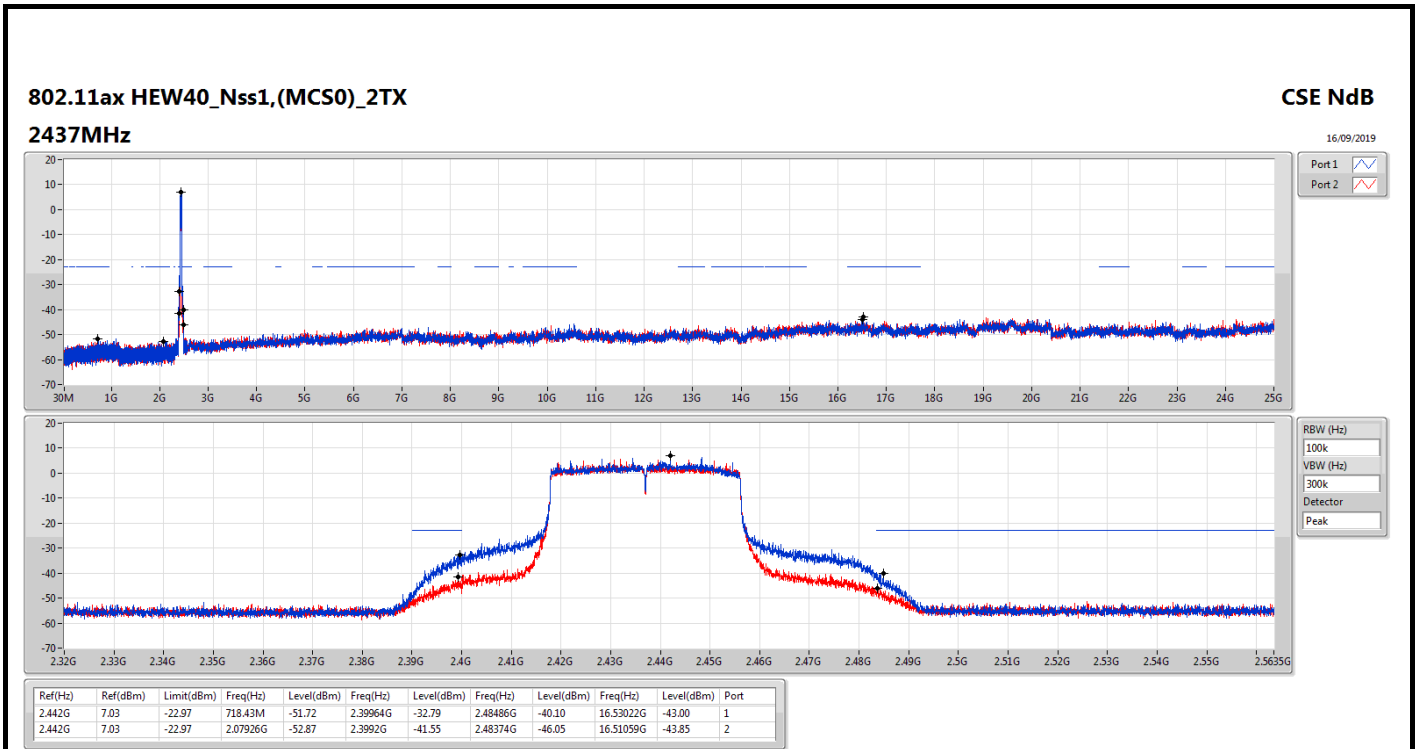






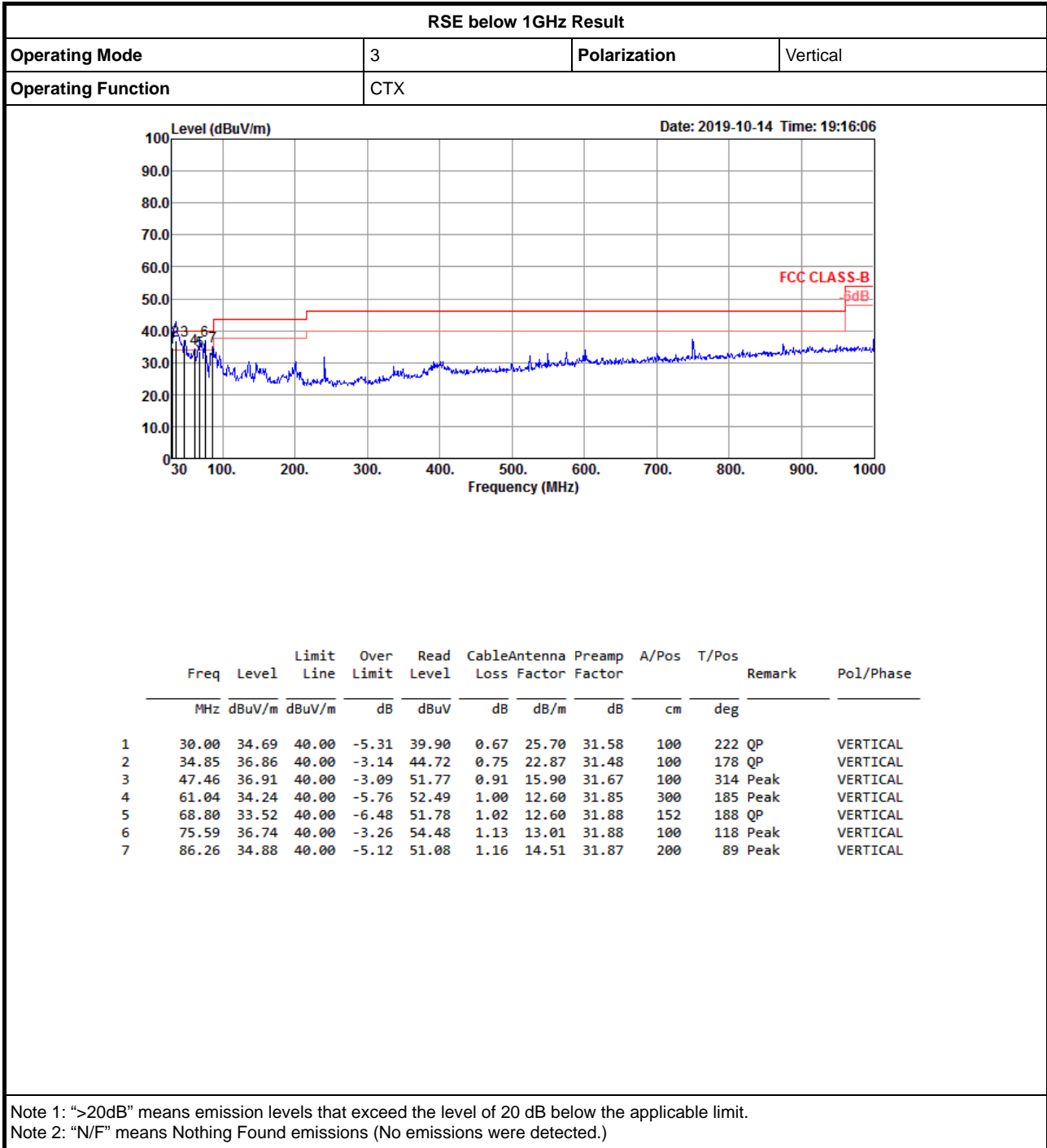


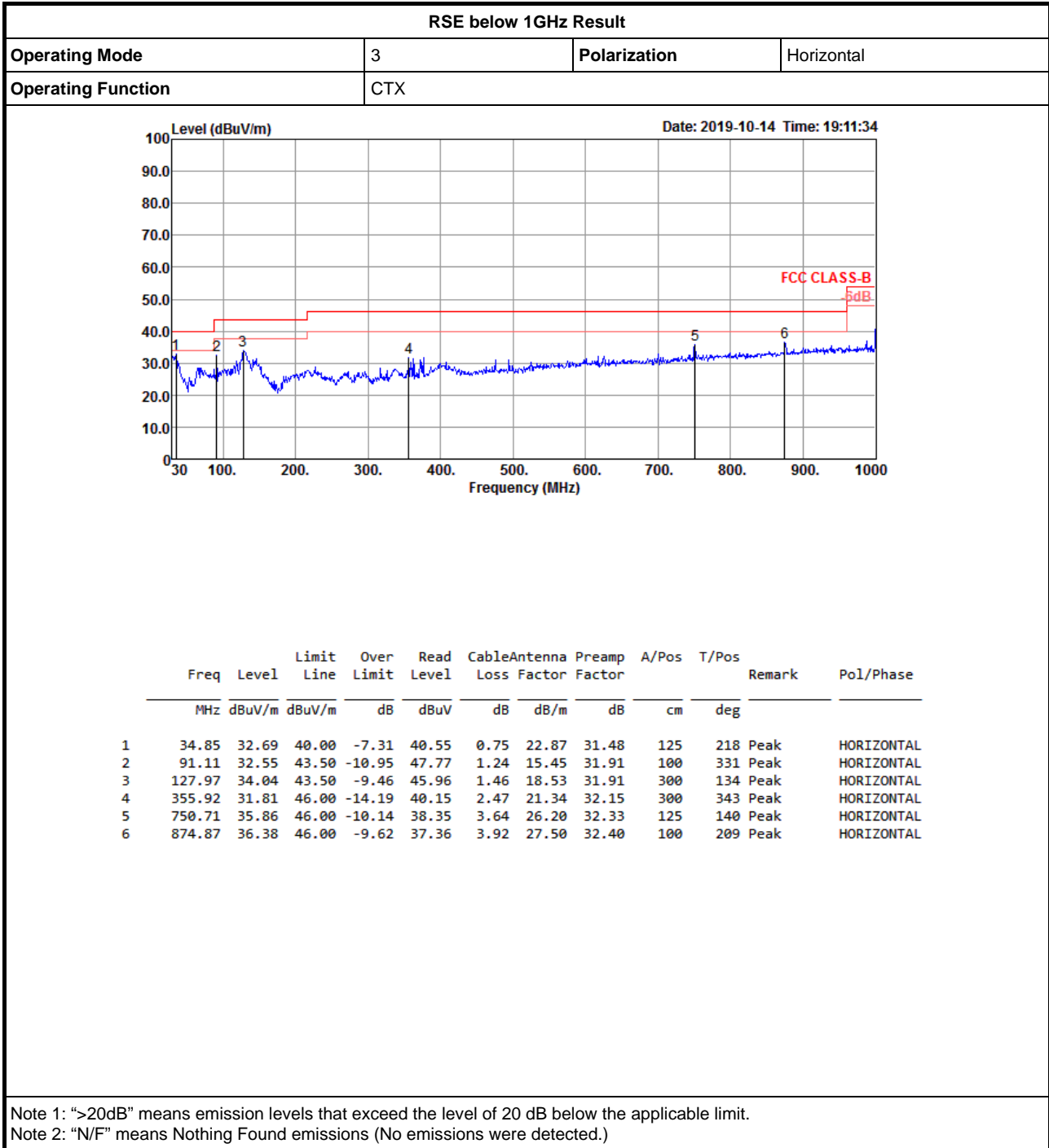






RSE below 1GHz Result







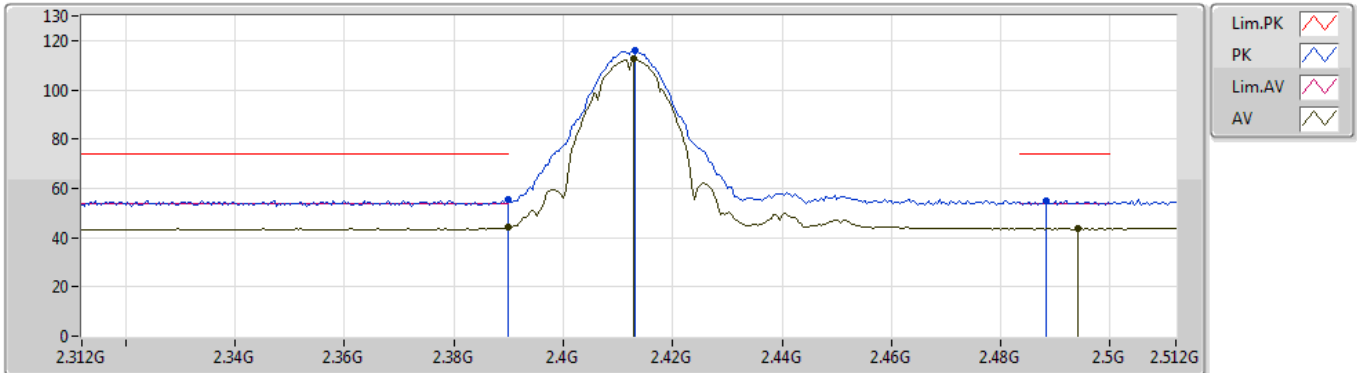
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.91	54.00	-0.09	30.96	3	Horizontal	58	2.25	-

802.11b_Nss1,(1Mbps)_2TX

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2412MHz_TX



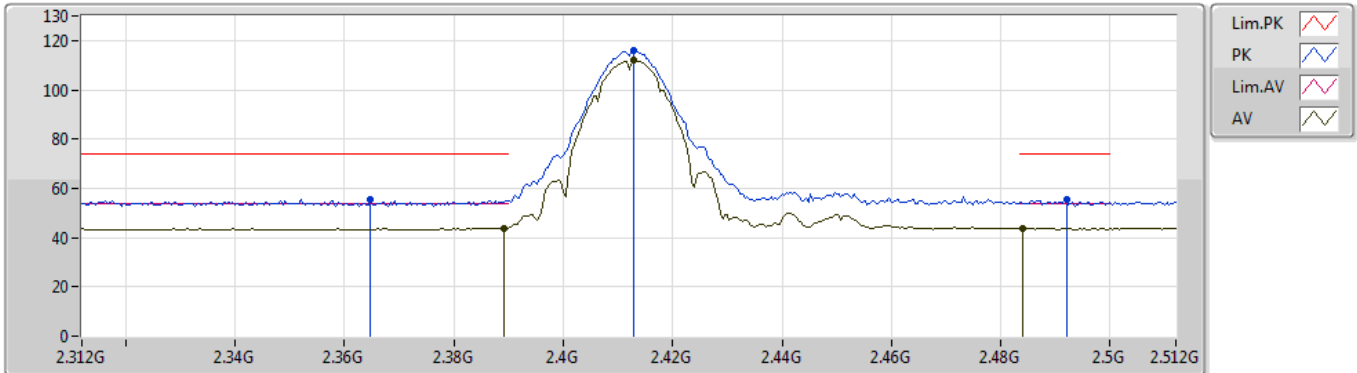
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.39G	55.37	74.00	-18.63	30.80	3	Vertical	42	2.47	-	24.57
AV	2.39G	44.33	54.00	-9.67	30.80	3	Vertical	42	2.47	-	13.53
PK	2.4132G	116.20	Inf	-Inf	30.86	3	Vertical	42	2.47	-	85.34
AV	2.4128G	112.70	Inf	-Inf	30.86	3	Vertical	42	2.47	-	81.84
PK	2.4884G	54.97	74.00	-19.03	30.97	3	Vertical	42	2.47	-	24.00
AV	2.494G	43.72	54.00	-10.28	30.98	3	Vertical	42	2.47	-	12.74

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2412MHz_TX



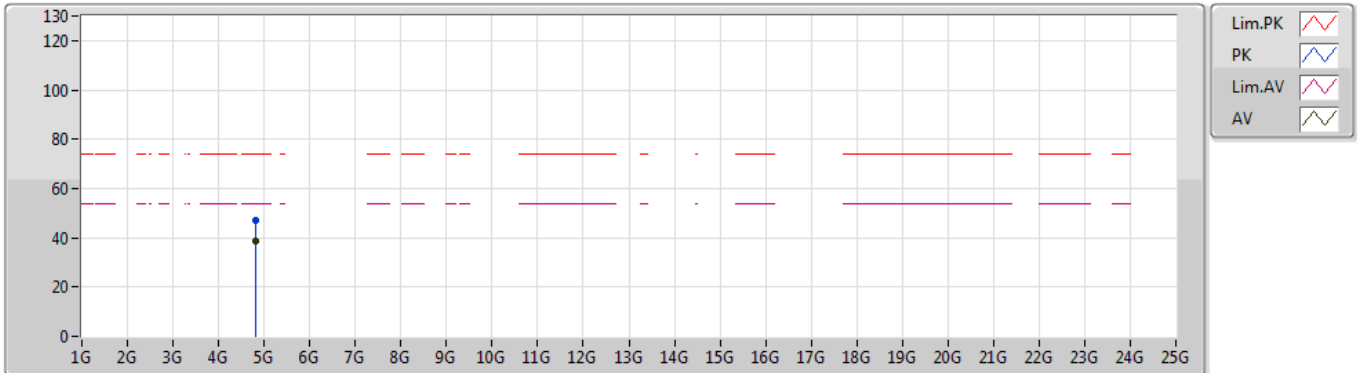
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3648G	55.55	74.00	-18.45	30.70	3	Horizontal	49	1.87	-	24.85
AV	2.3892G	43.93	54.00	-10.07	30.80	3	Horizontal	49	1.87	-	13.13
PK	2.4128G	116.03	Inf	-Inf	30.86	3	Horizontal	49	1.87	-	85.17
AV	2.4128G	112.06	Inf	-Inf	30.86	3	Horizontal	49	1.87	-	81.20
PK	2.492G	55.37	74.00	-18.63	30.98	3	Horizontal	49	1.87	-	24.39
AV	2.484G	43.76	54.00	-10.24	30.96	3	Horizontal	49	1.87	-	12.80

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2412MHz_TX



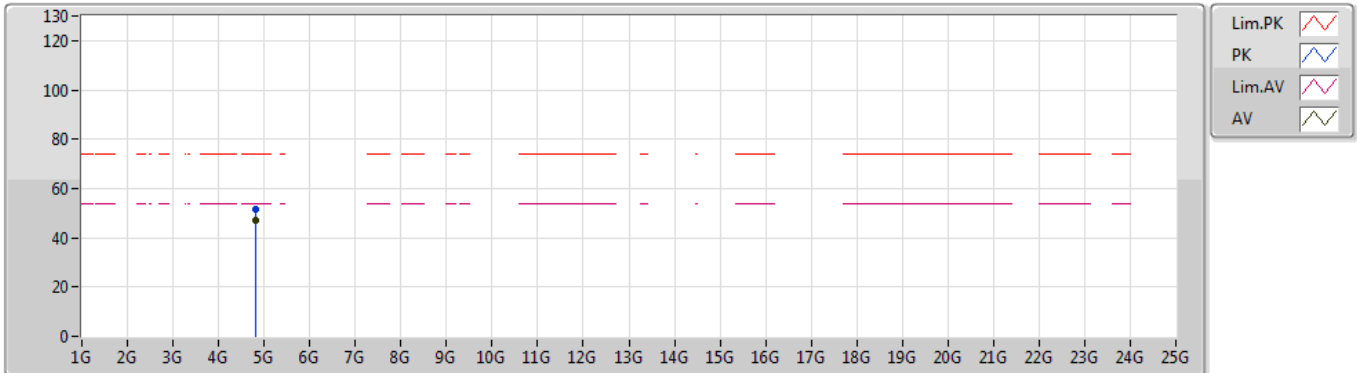
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.82405G	47.23	74.00	-26.77	3.59	3	Vertical	28	1.69	-	43.64
AV	4.82396G	38.83	54.00	-15.17	3.59	3	Vertical	28	1.69	-	35.24

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2412MHz_TX



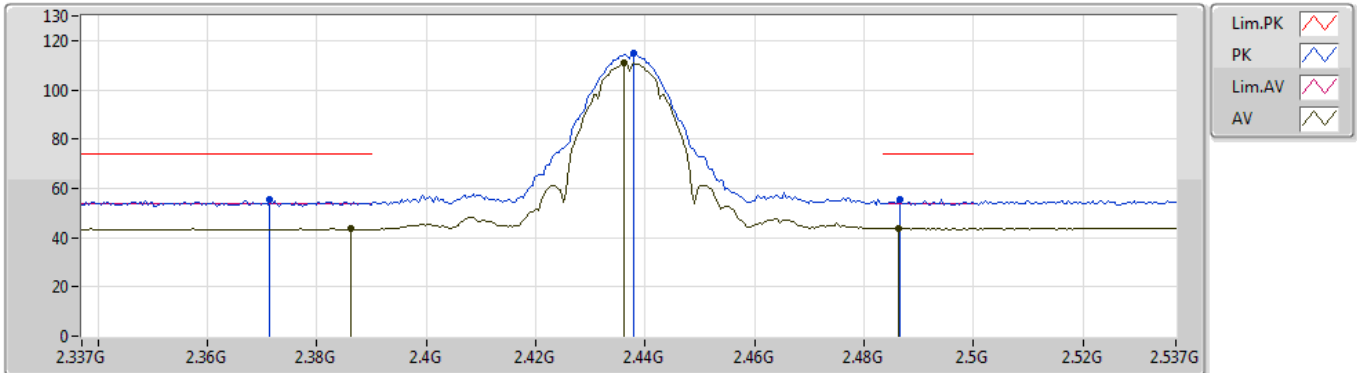
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.82405G	51.37	74.00	-22.63	3.59	3	Horizontal	33	1.86	-	47.78
AV	4.824G	47.01	54.00	-6.99	3.59	3	Horizontal	33	1.86	-	43.42

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2437MHz_TX



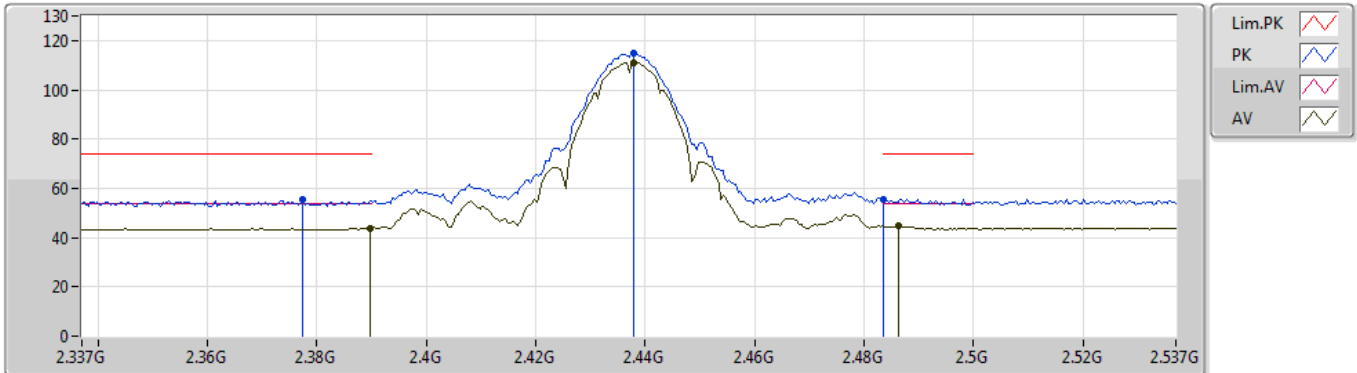
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3714G	55.43	74.00	-18.57	30.73	3	Vertical	45	1.75	-	24.70
AV	2.3862G	43.63	54.00	-10.37	30.79	3	Vertical	45	1.75	-	12.84
PK	2.4378G	114.62	Inf	-Inf	30.90	3	Vertical	45	1.75	-	83.72
AV	2.4362G	110.84	Inf	-Inf	30.90	3	Vertical	45	1.75	-	79.94
PK	2.4866G	55.41	74.00	-18.59	30.97	3	Vertical	45	1.75	-	24.44
AV	2.4862G	43.82	54.00	-10.18	30.97	3	Vertical	45	1.75	-	12.85

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2437MHz_TX



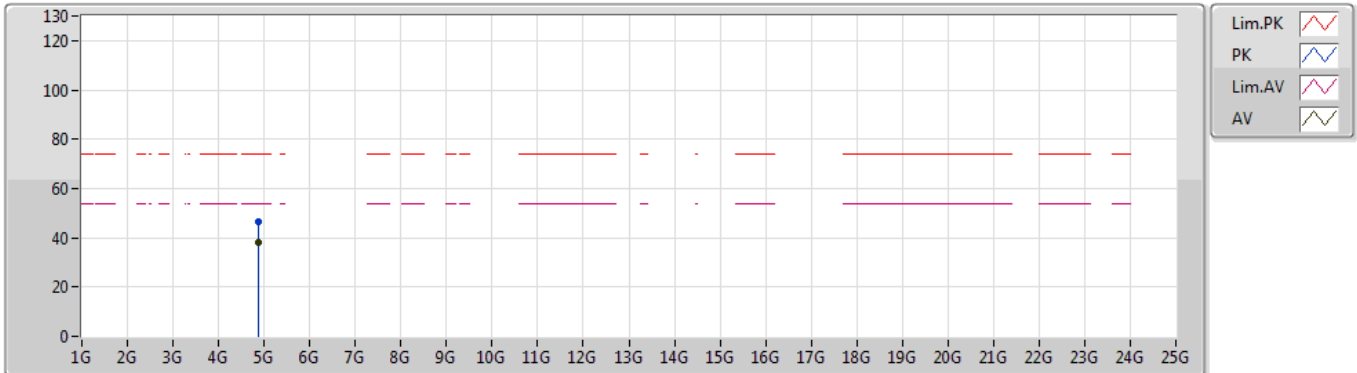
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3774G	55.60	74.00	-18.40	30.75	3	Horizontal	58	1.93	-	24.85
AV	2.3898G	43.86	54.00	-10.14	30.80	3	Horizontal	58	1.93	-	13.06
PK	2.4378G	114.99	Inf	-Inf	30.90	3	Horizontal	58	1.93	-	84.09
AV	2.4378G	111.22	Inf	-Inf	30.90	3	Horizontal	58	1.93	-	80.32
PK	2.4835G	55.47	74.00	-18.53	30.96	3	Horizontal	58	1.93	-	24.51
AV	2.4862G	44.64	54.00	-9.36	30.97	3	Horizontal	58	1.93	-	13.67

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2437MHz_TX



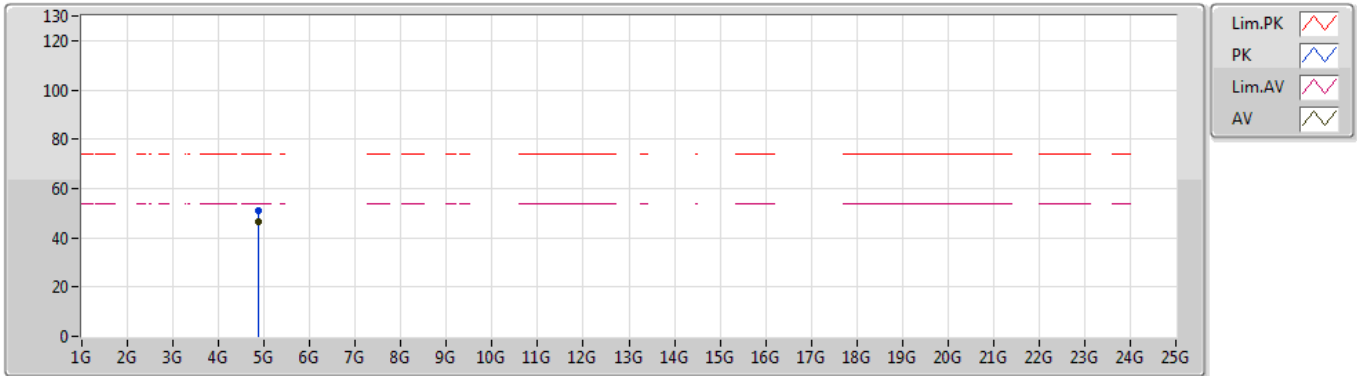
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87386G	46.51	74.00	-27.49	3.81	3	Vertical	25	1.44	-	42.70
AV	4.87394G	38.31	54.00	-15.69	3.81	3	Vertical	25	1.44	-	34.50

802.11b_Nss1,(1Mbps)_2TX

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2437MHz_TX



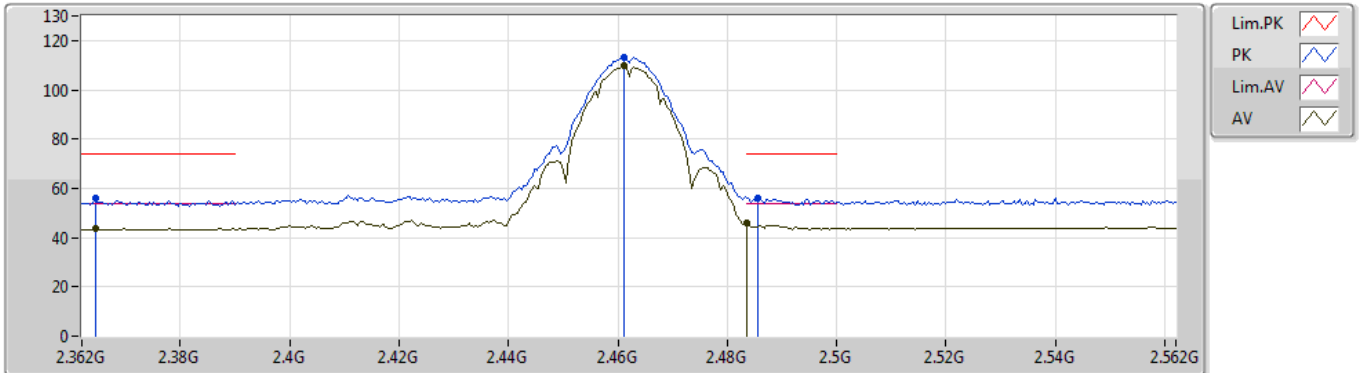
EUT Y_2TX
Setting 23
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.8739G	50.97	74.00	-23.03	3.81	3	Horizontal	40	2.07	-	47.16
AV	4.87397G	46.32	54.00	-7.68	3.81	3	Horizontal	40	2.07	-	42.51

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2462MHz_TX



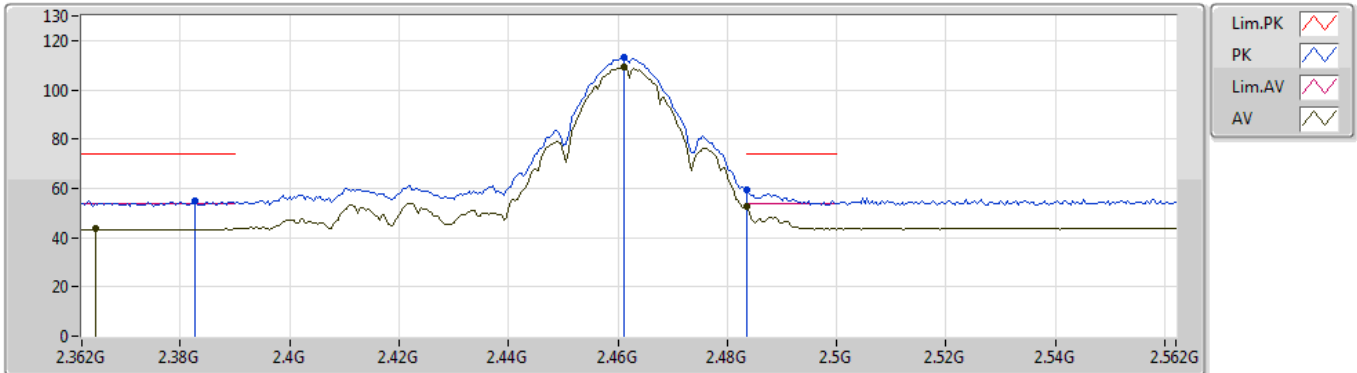
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3644G	55.77	74.00	-18.23	30.70	3	Vertical	32	2.38	-	25.07
AV	2.3644G	43.67	54.00	-10.33	30.70	3	Vertical	32	2.38	-	12.97
PK	2.4612G	113.14	Inf	-Inf	30.93	3	Vertical	32	2.38	-	82.21
AV	2.4612G	109.57	Inf	-Inf	30.93	3	Vertical	32	2.38	-	78.64
PK	2.4856G	56.02	74.00	-17.98	30.97	3	Vertical	32	2.38	-	25.05
AV	2.4835G	45.82	54.00	-8.18	30.96	3	Vertical	32	2.38	-	14.86

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2462MHz_TX



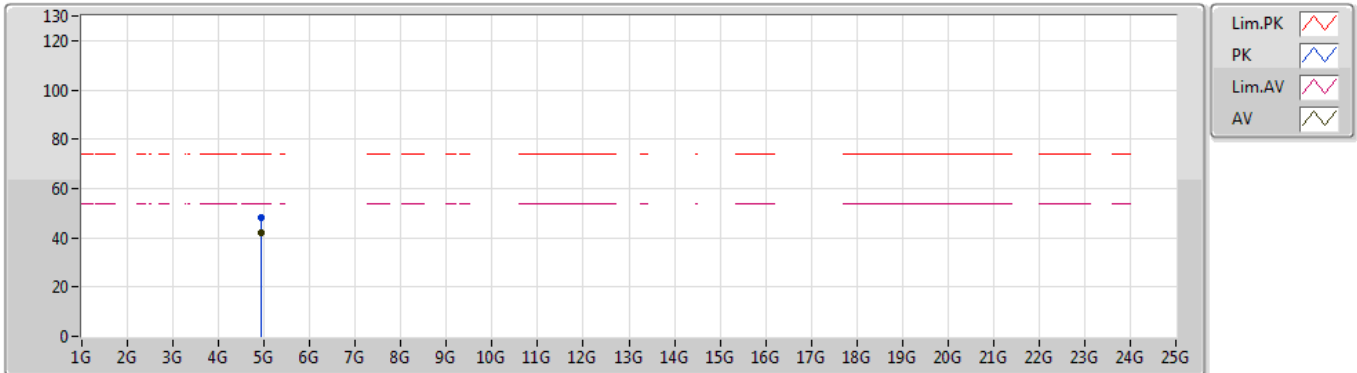
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3828G	54.79	74.00	-19.21	30.78	3	Horizontal	59	1.85	-	24.01
AV	2.3644G	43.58	54.00	-10.42	30.70	3	Horizontal	59	1.85	-	12.88
PK	2.4612G	113.10	Inf	-Inf	30.93	3	Horizontal	59	1.85	-	82.17
AV	2.4612G	109.42	Inf	-Inf	30.93	3	Horizontal	59	1.85	-	78.49
PK	2.4835G	59.62	74.00	-14.38	30.96	3	Horizontal	59	1.85	-	28.66
AV	2.4835G	52.72	54.00	-1.28	30.96	3	Horizontal	59	1.85	-	21.76

802.11b_Nss1,(1Mbps)_2TX

14/09/2019

2462MHz_TX



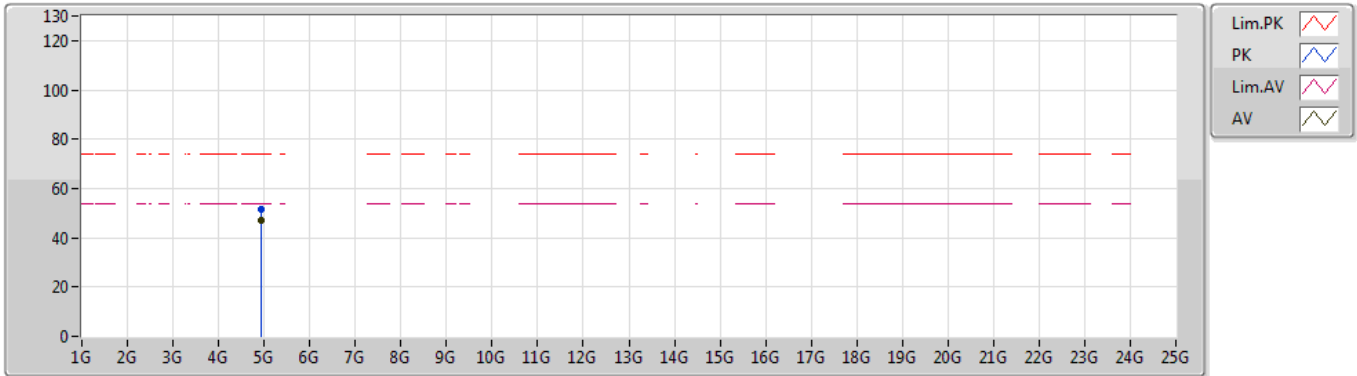
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.92407G	48.45	74.00	-25.55	4.04	3	Vertical	10	2.99	-	44.41
AV	4.92401G	42.04	54.00	-11.96	4.04	3	Vertical	10	2.99	-	38.00

802.11b_Nss1,(1Mbps)_2TX

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2462MHz_TX



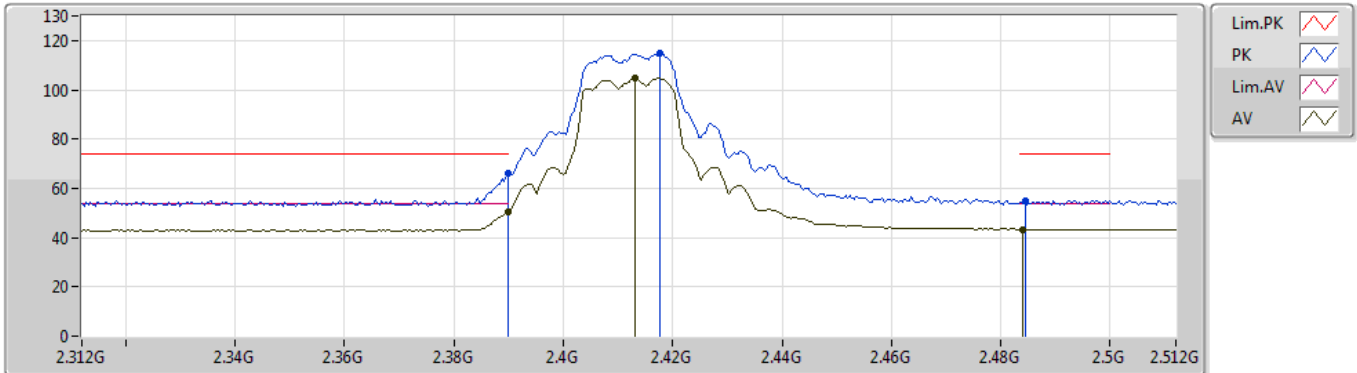
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.92408G	51.50	74.00	-22.50	4.04	3	Horizontal	37	1.88	-	47.46
AV	4.92394G	47.21	54.00	-6.79	4.04	3	Horizontal	37	1.88	-	43.17

802.11g_Nss1,(6Mbps)_2TX

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2412MHz_TX



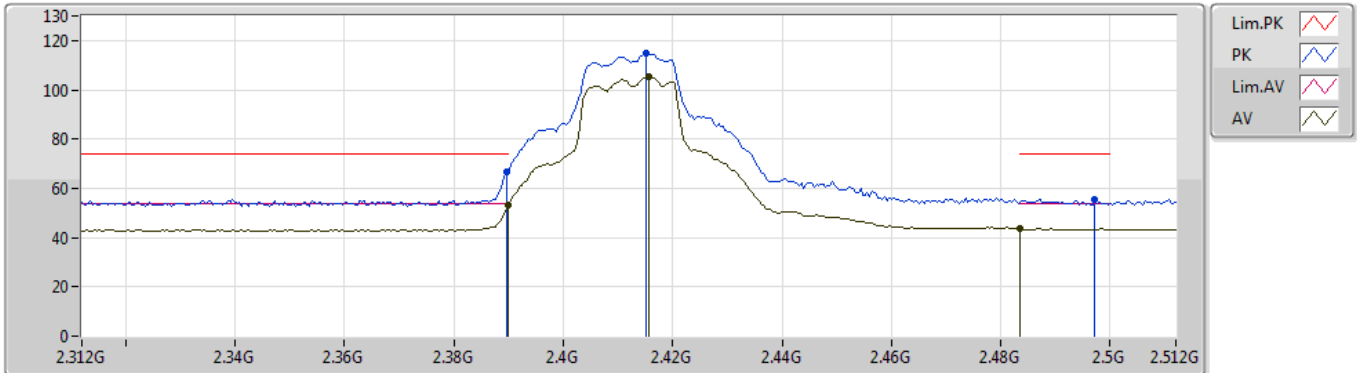
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.39G	66.17	74.00	-7.83	30.80	3	Vertical	56	2.47	-	35.37
AV	2.39G	50.31	54.00	-3.69	30.80	3	Vertical	56	2.47	-	19.51
PK	2.4176G	114.91	Inf	-Inf	30.87	3	Vertical	56	2.47	-	84.04
AV	2.4132G	104.73	Inf	-Inf	30.86	3	Vertical	56	2.47	-	73.87
PK	2.4844G	55.10	74.00	-18.90	30.96	3	Vertical	56	2.47	-	24.14
AV	2.484G	43.36	54.00	-10.64	30.96	3	Vertical	56	2.47	-	12.40

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2412MHz_TX



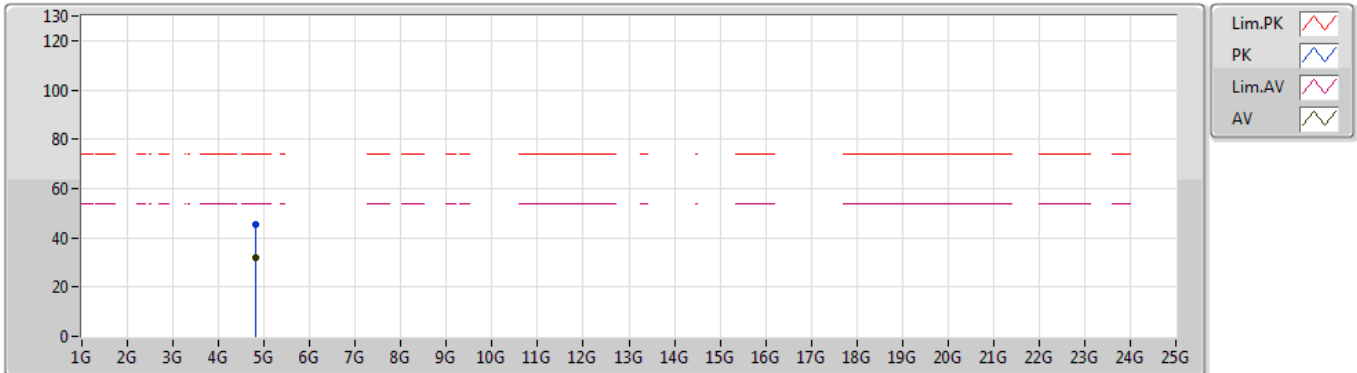
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3896G	66.42	74.00	-7.58	30.80	3	Horizontal	56	1.40	-	35.62
AV	2.39G	53.26	54.00	-0.74	30.80	3	Horizontal	56	1.40	-	22.46
PK	2.4152G	114.69	Inf	-Inf	30.87	3	Horizontal	56	1.40	-	83.82
AV	2.4156G	105.54	Inf	-Inf	30.87	3	Horizontal	56	1.40	-	74.67
PK	2.4972G	55.31	74.00	-18.69	30.99	3	Horizontal	56	1.40	-	24.32
AV	2.4835G	43.46	54.00	-10.54	30.96	3	Horizontal	56	1.40	-	12.50

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2412MHz_TX



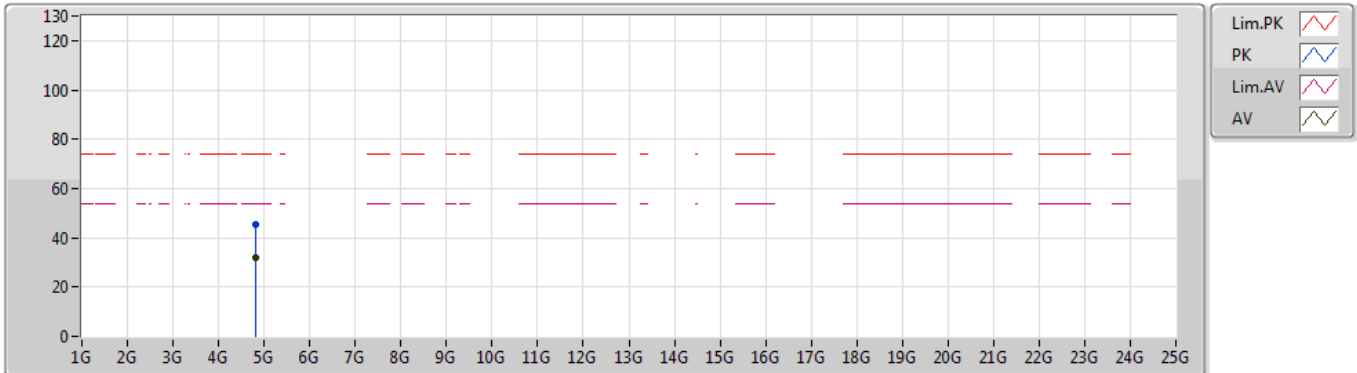
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.82296G	45.28	74.00	-28.72	3.59	3	Vertical	335	2.24	-	41.69
AV	4.82505G	31.88	54.00	-22.12	3.60	3	Vertical	335	2.24	-	28.28

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2412MHz_TX



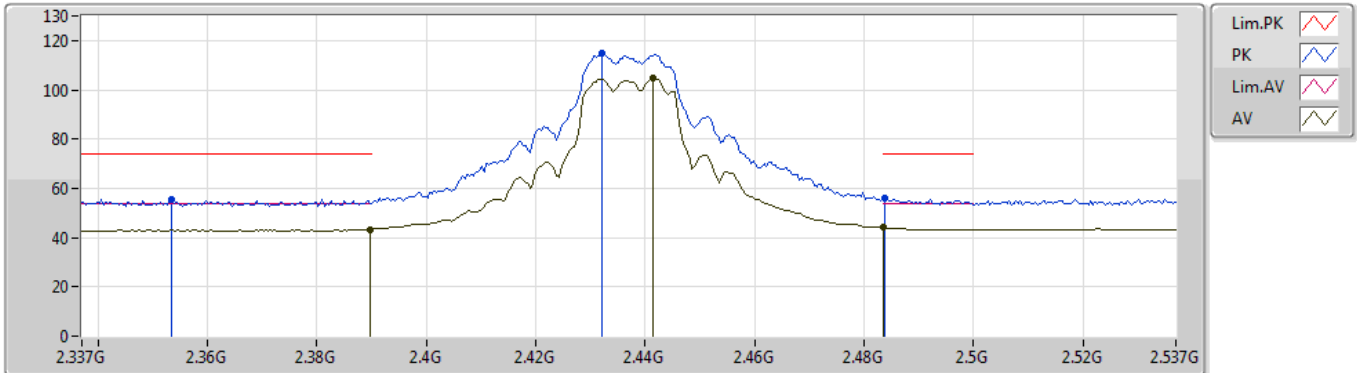
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.82376G	45.27	74.00	-28.73	3.59	3	Horizontal	91	1.72	-	41.68
AV	4.82175G	31.79	54.00	-22.21	3.59	3	Horizontal	91	1.72	-	28.20

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2437MHz_TX



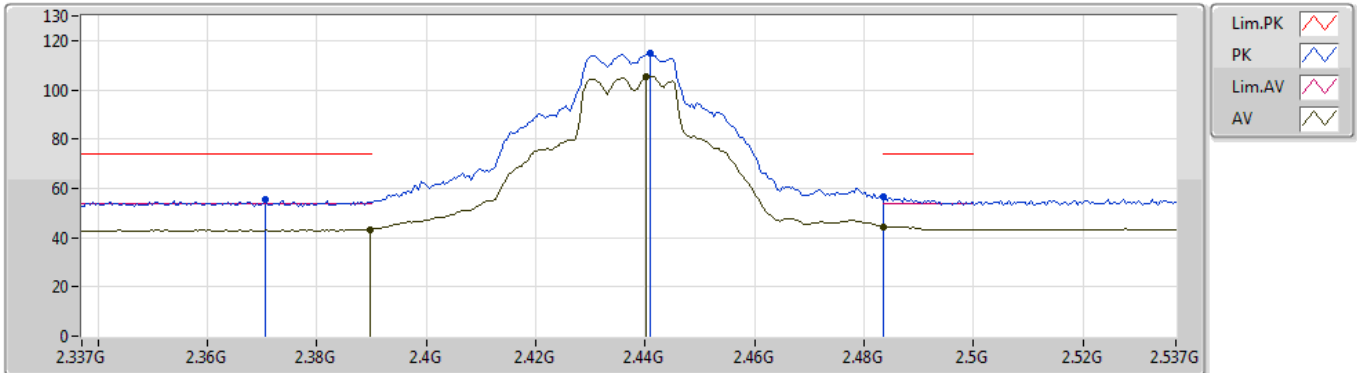
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3534G	55.56	74.00	-18.44	30.66	3	Vertical	45	1.75	-	24.90
AV	2.3898G	43.38	54.00	-10.62	30.80	3	Vertical	45	1.75	-	12.58
PK	2.4322G	115.04	Inf	-Inf	30.89	3	Vertical	45	1.75	-	84.15
AV	2.4414G	104.61	Inf	-Inf	30.90	3	Vertical	45	1.75	-	73.71
PK	2.4838G	56.20	74.00	-17.80	30.96	3	Vertical	45	1.75	-	25.24
AV	2.4835G	43.99	54.00	-10.01	30.96	3	Vertical	45	1.75	-	13.03

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2437MHz_TX



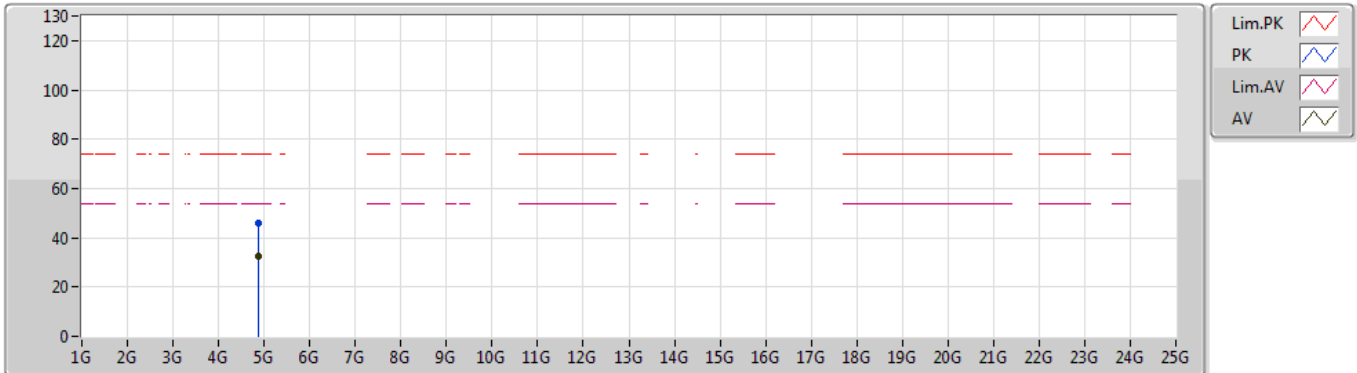
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3706G	55.33	74.00	-18.67	30.73	3	Horizontal	60	1.09	-	24.60
AV	2.3898G	43.34	54.00	-10.66	30.80	3	Horizontal	60	1.09	-	12.54
PK	2.441G	114.86	Inf	-Inf	30.90	3	Horizontal	60	1.09	-	83.96
AV	2.4402G	105.33	Inf	-Inf	30.90	3	Horizontal	60	1.09	-	74.43
PK	2.4835G	56.44	74.00	-17.56	30.96	3	Horizontal	60	1.09	-	25.48
AV	2.4835G	44.50	54.00	-9.50	30.96	3	Horizontal	60	1.09	-	13.54

802.11g_Nss1,(6Mbps)_2TX

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2437MHz_TX



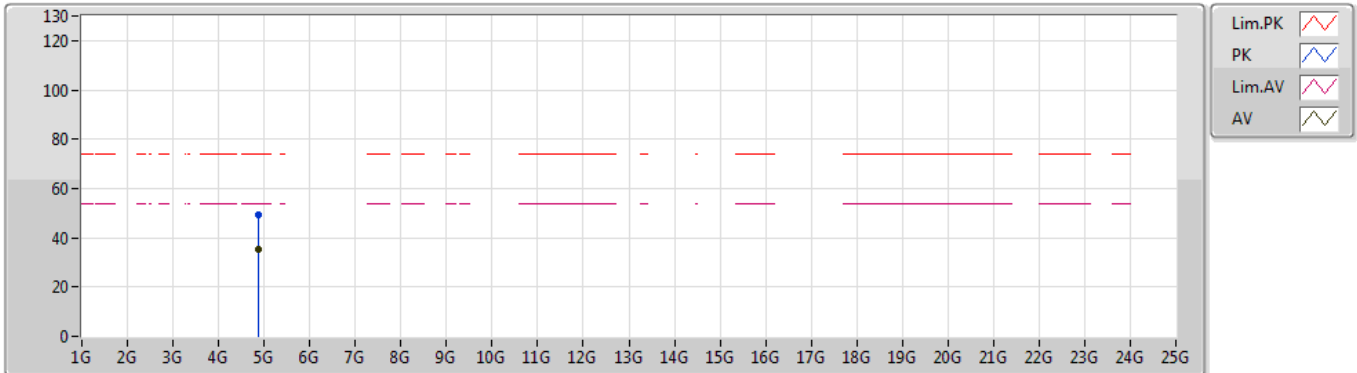
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87268G	45.68	74.00	-28.32	3.81	3	Vertical	33	1.84	-	41.87
AV	4.87175G	32.40	54.00	-21.60	3.81	3	Vertical	33	1.84	-	28.59

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2437MHz_TX



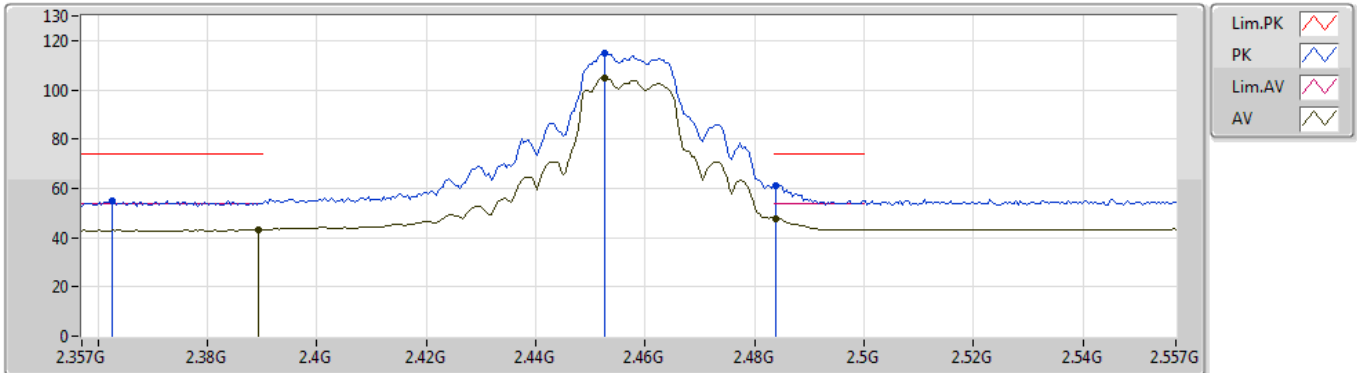
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87198G	49.16	74.00	-24.84	3.81	3	Horizontal	54	1.90	-	45.35
AV	4.87195G	35.18	54.00	-18.82	3.81	3	Horizontal	54	1.90	-	31.37

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2457MHz_TX



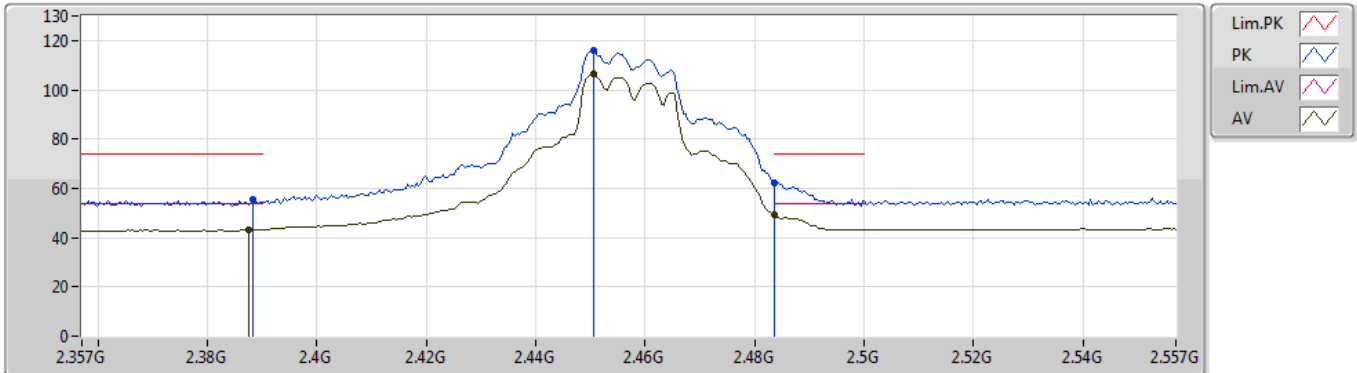
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3626G	54.88	74.00	-19.12	30.70	3	Vertical	45	2.62	-	24.18
AV	2.3894G	43.21	54.00	-10.79	30.80	3	Vertical	45	2.62	-	12.41
PK	2.4526G	114.91	Inf	-Inf	30.92	3	Vertical	45	2.62	-	83.99
AV	2.4526G	104.97	Inf	-Inf	30.92	3	Vertical	45	2.62	-	74.05
PK	2.4838G	61.28	74.00	-12.72	30.96	3	Vertical	45	2.62	-	30.32
AV	2.4838G	47.81	54.00	-6.19	30.96	3	Vertical	45	2.62	-	16.85

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2457MHz_TX



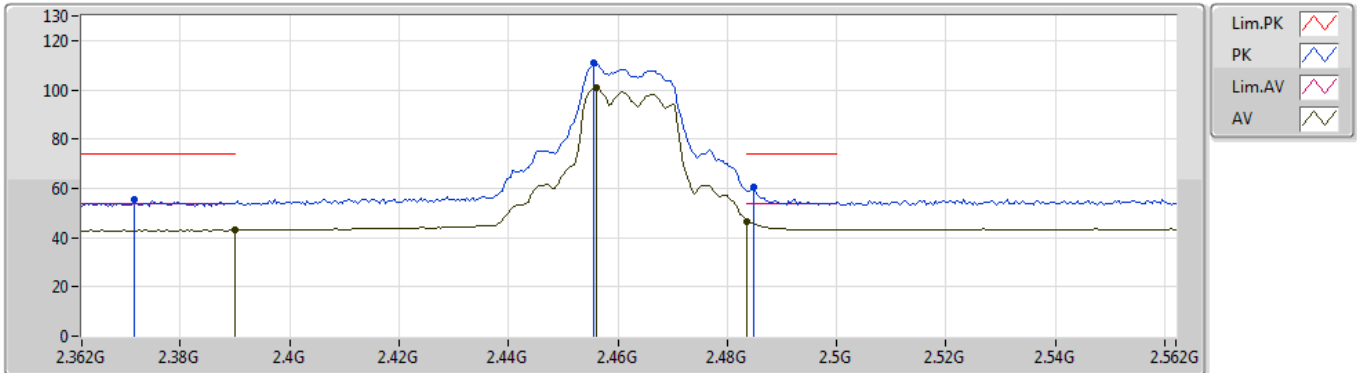
EUT Y_2TX
Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3882G	55.32	74.00	-18.68	30.79	3	Horizontal	52	1.01	-	24.53
AV	2.3874G	43.10	54.00	-10.90	30.79	3	Horizontal	52	1.01	-	12.31
PK	2.4506G	115.86	Inf	-Inf	30.92	3	Horizontal	52	1.01	-	84.94
AV	2.4506G	106.20	Inf	-Inf	30.92	3	Horizontal	52	1.01	-	75.28
PK	2.4835G	62.42	74.00	-11.58	30.96	3	Horizontal	52	1.01	-	31.46
AV	2.4835G	49.16	54.00	-4.84	30.96	3	Horizontal	52	1.01	-	18.20

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2462MHz_TX



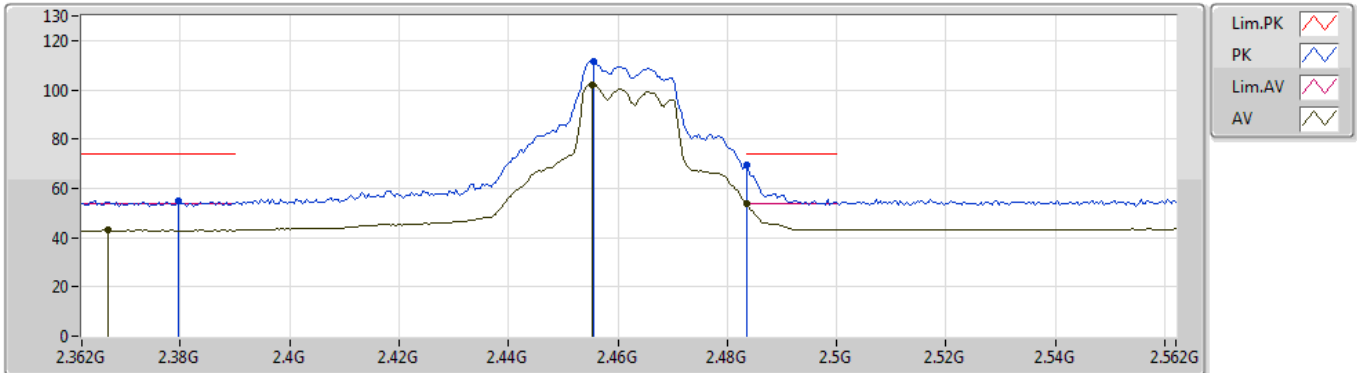
EUT Y_2TX
Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3716G	55.48	74.00	-18.52	30.73	3	Vertical	61	1.13	-	24.75
AV	2.39G	42.98	54.00	-11.02	30.80	3	Vertical	61	1.13	-	12.18
PK	2.4556G	110.90	Inf	-Inf	30.93	3	Vertical	61	1.13	-	79.97
AV	2.456G	100.61	Inf	-Inf	30.93	3	Vertical	61	1.13	-	69.68
PK	2.4848G	60.32	74.00	-13.68	30.96	3	Vertical	61	1.13	-	29.36
AV	2.4835G	46.54	54.00	-7.46	30.96	3	Vertical	61	1.13	-	15.58

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2462MHz_TX



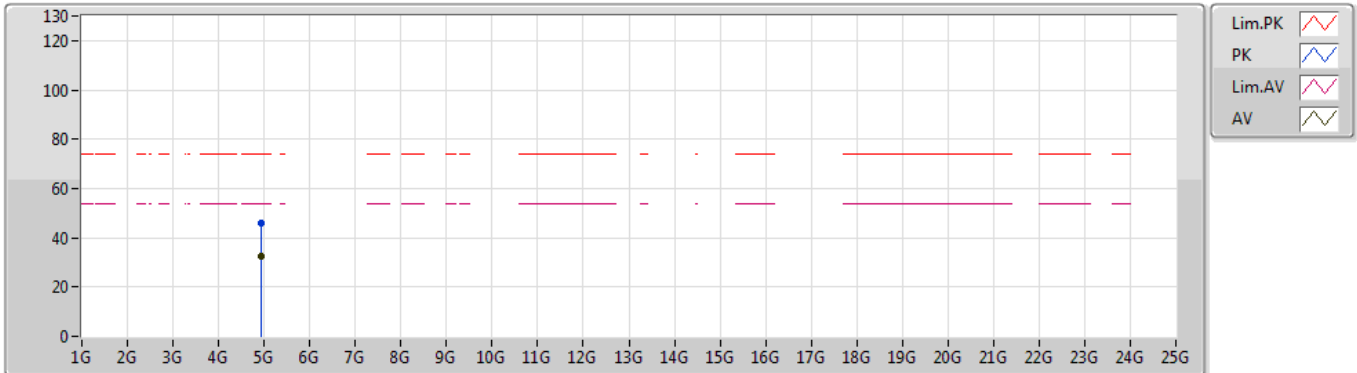
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3796G	54.95	74.00	-19.05	30.76	3	Horizontal	58	1.00	-	24.19
AV	2.3668G	43.18	54.00	-10.82	30.71	3	Horizontal	58	1.00	-	12.47
PK	2.4556G	111.72	Inf	-Inf	30.93	3	Horizontal	58	1.00	-	80.79
AV	2.4552G	102.14	Inf	-Inf	30.93	3	Horizontal	58	1.00	-	71.21
PK	2.4835G	69.36	74.00	-4.64	30.96	3	Horizontal	58	1.00	-	38.40
AV	2.4835G	53.70	54.00	-0.30	30.96	3	Horizontal	58	1.00	-	22.74

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2462MHz_TX



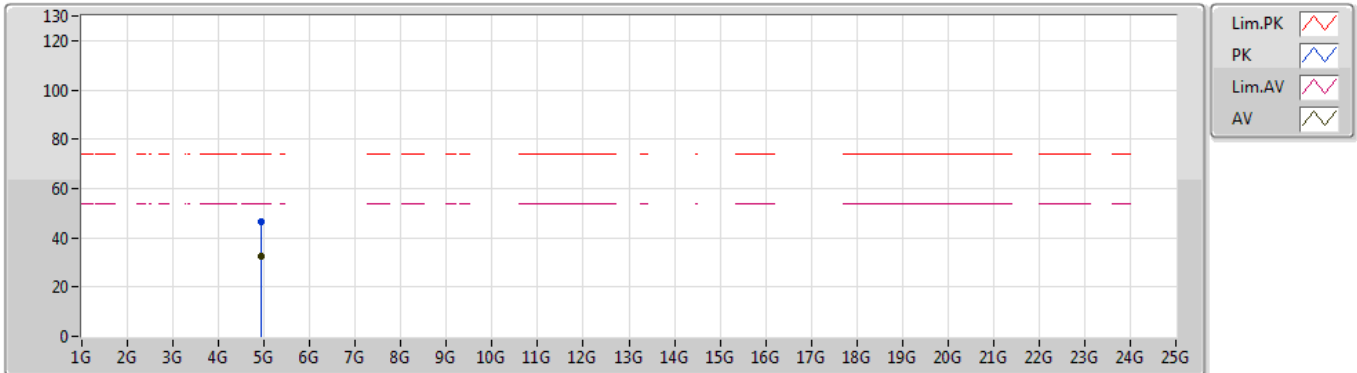
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.92405G	46.04	74.00	-27.96	4.04	3	Vertical	29	2.54	-	42.00
AV	4.92601G	32.73	54.00	-21.27	4.05	3	Vertical	29	2.54	-	28.68

802.11g_Nss1,(6Mbps)_2TX

14/09/2019

2462MHz_TX



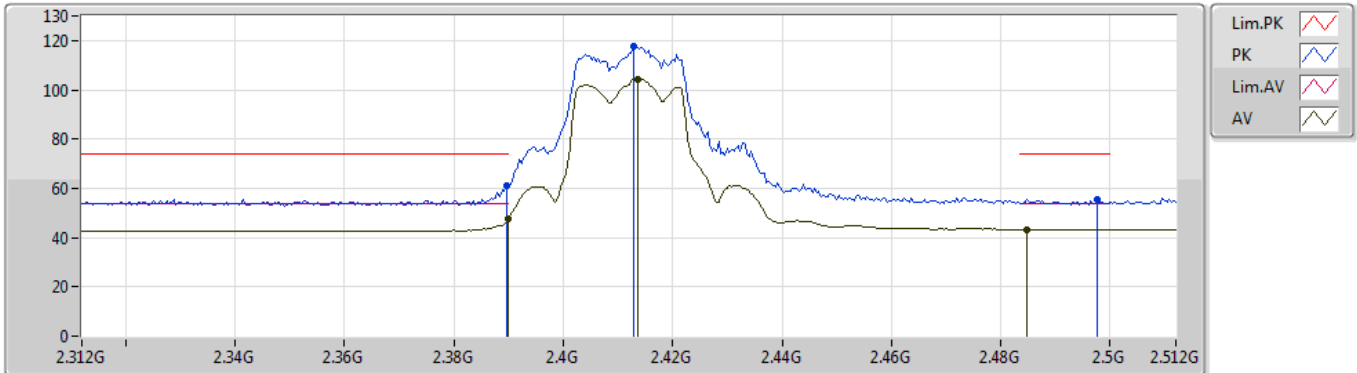
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.92416G	46.48	74.00	-27.52	4.04	3	Horizontal	206	2.36	-	42.44
AV	4.92539G	32.65	54.00	-21.35	4.05	3	Horizontal	206	2.36	-	28.60

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2412MHz_TX



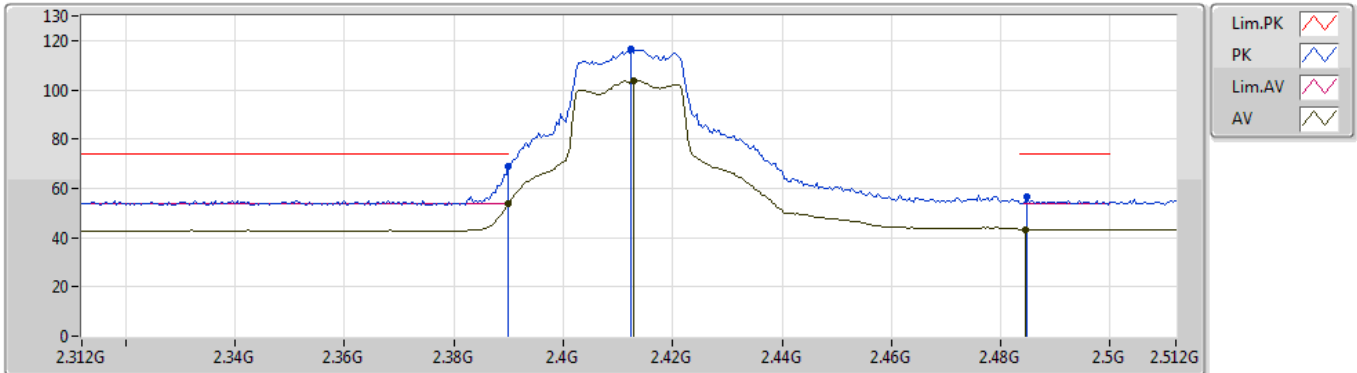
EUT Y_2TX
Setting 20
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3896G	60.95	74.00	-13.05	30.80	3	Vertical	36	2.73	-	30.15
AV	2.39G	47.53	54.00	-6.47	30.80	3	Vertical	36	2.73	-	16.73
PK	2.4128G	117.83	Inf	-Inf	30.86	3	Vertical	36	2.73	-	86.97
AV	2.4136G	104.42	Inf	-Inf	30.86	3	Vertical	36	2.73	-	73.56
PK	2.4976G	55.51	74.00	-18.49	30.99	3	Vertical	36	2.73	-	24.52
AV	2.4848G	43.18	54.00	-10.82	30.96	3	Vertical	36	2.73	-	12.22

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2412MHz_TX



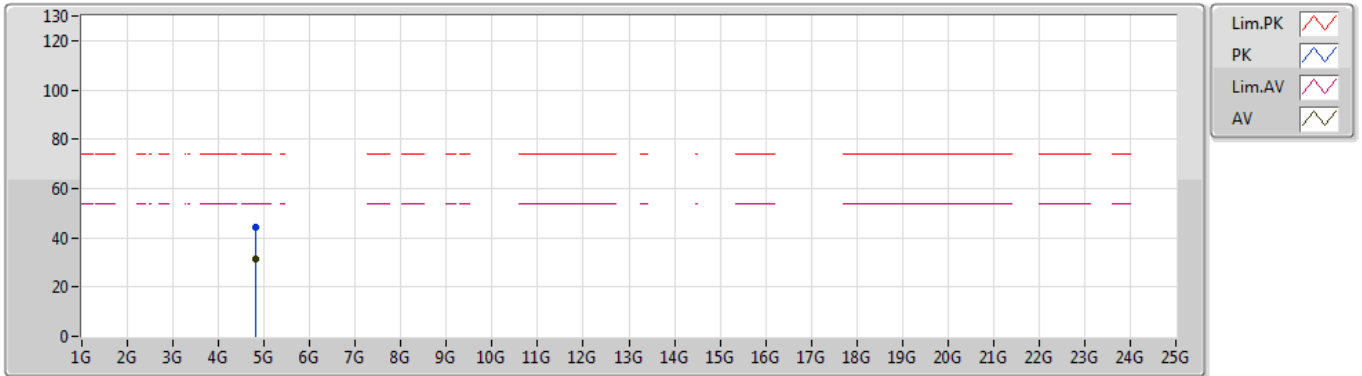
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Setting 20
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.39G	68.86	74.00	-5.14	30.80	3	Horizontal	56	2.10	-	38.06
AV	2.39G	53.60	54.00	-0.40	30.80	3	Horizontal	56	2.10	-	22.80
PK	2.4124G	116.65	Inf	-Inf	30.86	3	Horizontal	56	2.10	-	85.79
AV	2.4128G	103.70	Inf	-Inf	30.86	3	Horizontal	56	2.10	-	72.84
PK	2.4848G	56.39	74.00	-17.61	30.96	3	Horizontal	56	2.10	-	25.43
AV	2.4844G	43.37	54.00	-10.63	30.96	3	Horizontal	56	2.10	-	12.41

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2412MHz_TX



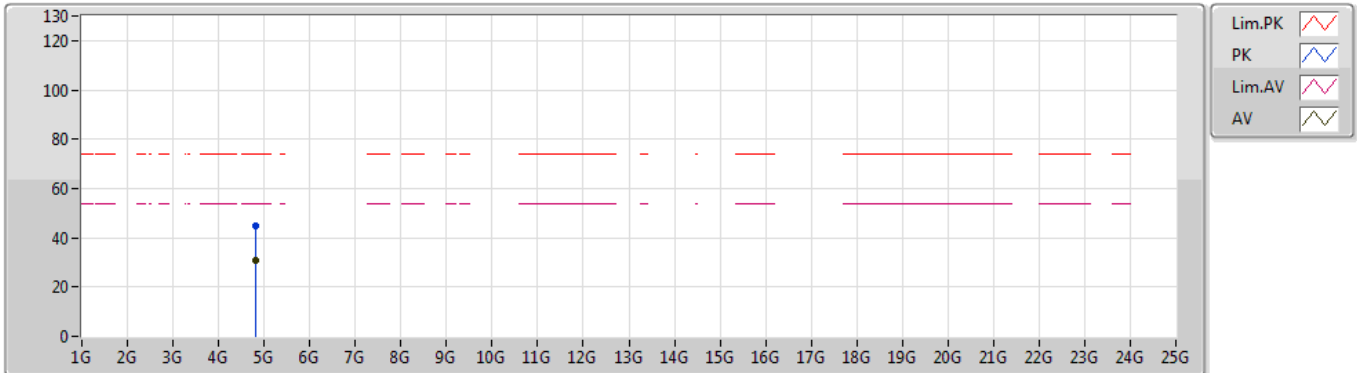
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Setting 20
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.82293G	44.18	74.00	-29.82	3.59	3	Vertical	333	1.32	-	40.59
AV	4.82531G	31.28	54.00	-22.72	3.60	3	Vertical	333	1.32	-	27.68

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2412MHz_TX



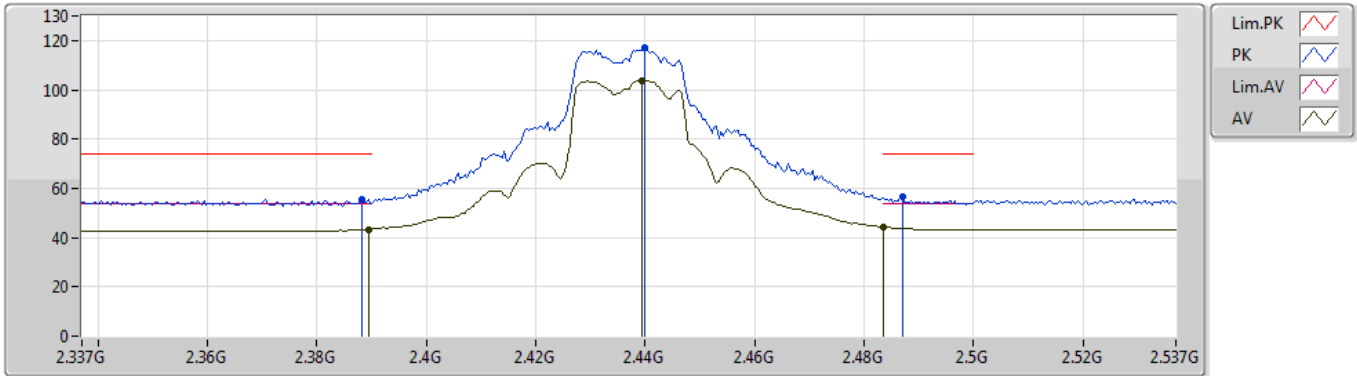
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Setting 20
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.8262G	45.00	74.00	-29.00	3.60	3	Horizontal	344	2.31	-	41.40
AV	4.82644G	31.09	54.00	-22.91	3.60	3	Horizontal	344	2.31	-	27.49

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



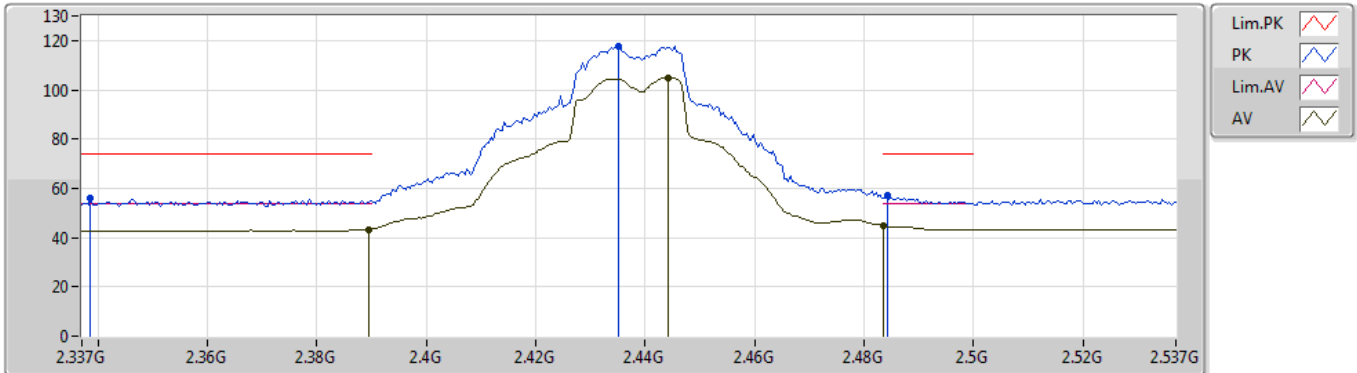
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Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3882G	55.47	74.00	-18.53	30.79	3	Vertical	53	2.97	-	24.68
AV	2.3894G	43.36	54.00	-10.64	30.80	3	Vertical	53	2.97	-	12.56
PK	2.4398G	117.15	Inf	-Inf	30.90	3	Vertical	53	2.97	-	86.25
AV	2.4394G	103.93	Inf	-Inf	30.90	3	Vertical	53	2.97	-	73.03
PK	2.487G	56.50	74.00	-17.50	30.97	3	Vertical	53	2.97	-	25.53
AV	2.4835G	44.32	54.00	-9.68	30.96	3	Vertical	53	2.97	-	13.36

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



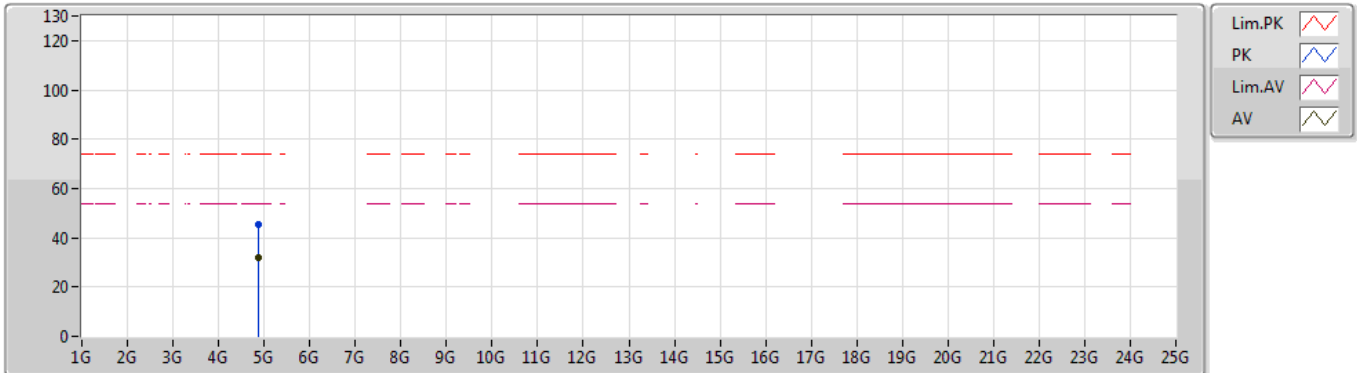
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Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3386G	55.80	74.00	-18.20	30.61	3	Horizontal	57	1.06	-	25.19
AV	2.3894G	43.29	54.00	-10.71	30.80	3	Horizontal	57	1.06	-	12.49
PK	2.435G	117.66	Inf	-Inf	30.89	3	Horizontal	57	1.06	-	86.77
AV	2.4442G	104.93	Inf	-Inf	30.90	3	Horizontal	57	1.06	-	74.03
PK	2.4842G	57.24	74.00	-16.76	30.96	3	Horizontal	57	1.06	-	26.28
AV	2.4835G	44.72	54.00	-9.28	30.96	3	Horizontal	57	1.06	-	13.76

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



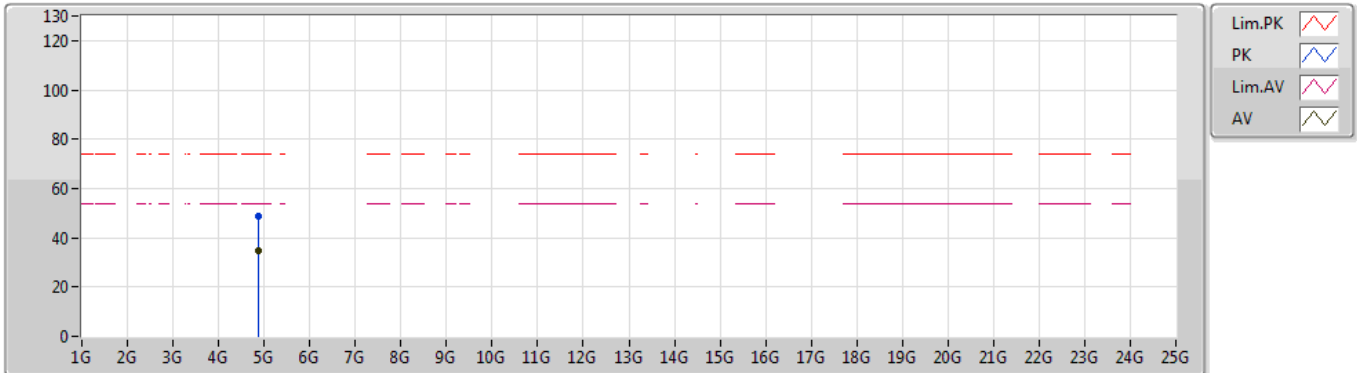
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Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87191G	45.64	74.00	-28.36	3.81	3	Vertical	31	1.50	-	41.83
AV	4.87643G	32.04	54.00	-21.96	3.82	3	Vertical	31	1.50	-	28.22

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



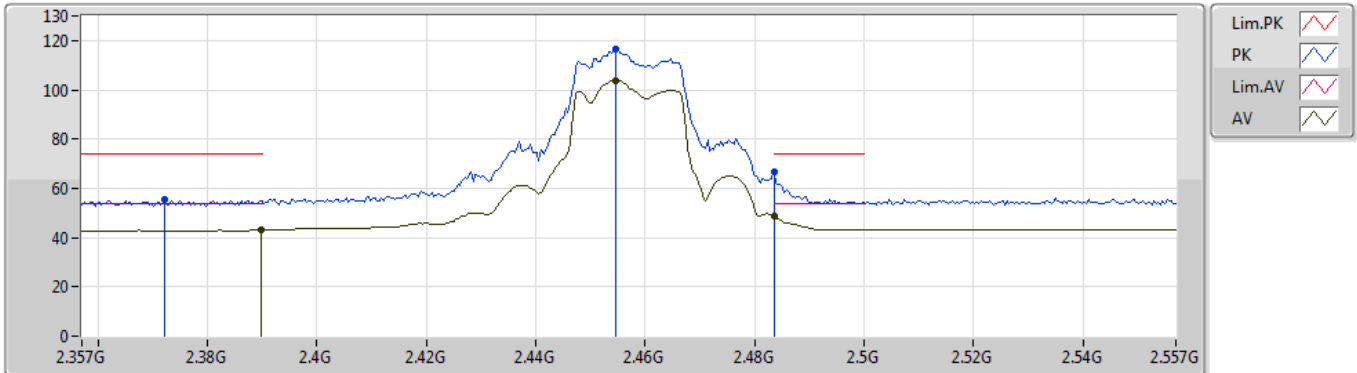
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Setting 22
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.8738G	48.81	74.00	-25.19	3.81	3	Horizontal	47	2.07	-	45.00
AV	4.87232G	34.51	54.00	-19.49	3.81	3	Horizontal	47	2.07	-	30.70

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2457MHz_TX



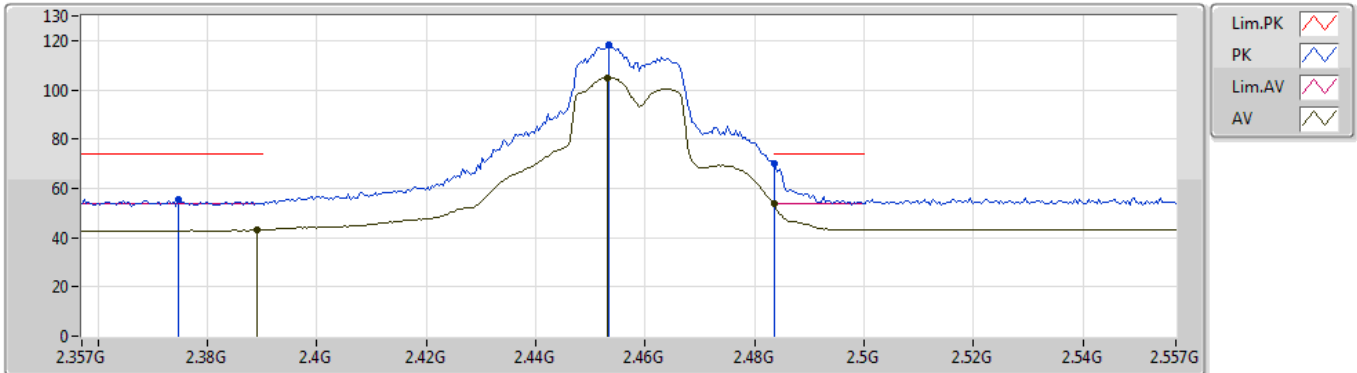
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3722G	55.39	74.00	-18.61	30.74	3	Vertical	59	1.13	-	24.65
AV	2.3898G	43.02	54.00	-10.98	30.80	3	Vertical	59	1.13	-	12.22
PK	2.4546G	116.56	Inf	-Inf	30.92	3	Vertical	59	1.13	-	85.64
AV	2.4546G	103.67	Inf	-Inf	30.92	3	Vertical	59	1.13	-	72.75
PK	2.4835G	66.73	74.00	-7.27	30.96	3	Vertical	59	1.13	-	35.77
AV	2.4835G	49.01	54.00	-4.99	30.96	3	Vertical	59	1.13	-	18.05

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2457MHz_TX



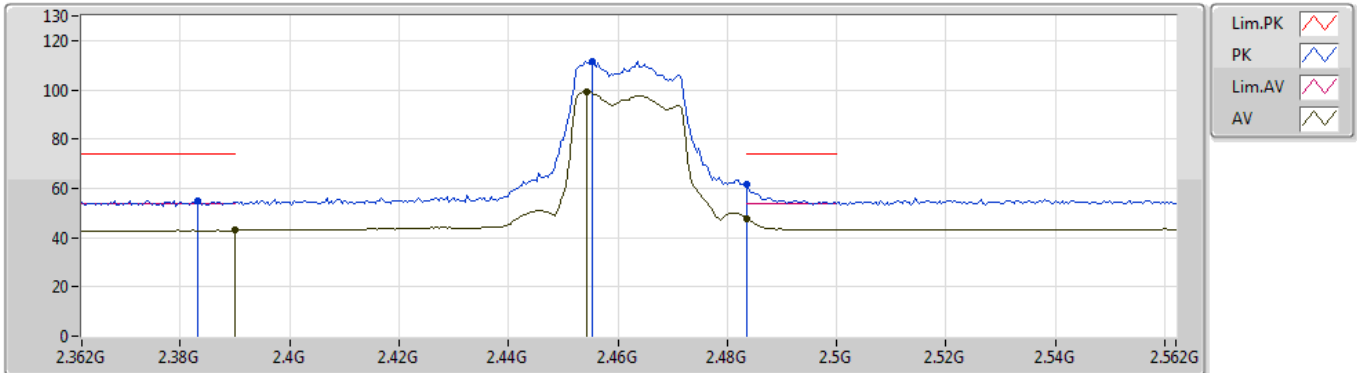
EUT Y_2TX
Setting 21
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3746G	55.70	74.00	-18.30	30.74	3	Horizontal	54	1.01	-	24.96
AV	2.389G	42.99	54.00	-11.01	30.80	3	Horizontal	54	1.01	-	12.19
PK	2.4534G	118.34	Inf	-Inf	30.92	3	Horizontal	54	1.01	-	87.42
AV	2.453G	105.00	Inf	-Inf	30.92	3	Horizontal	54	1.01	-	74.08
PK	2.4835G	70.26	74.00	-3.74	30.96	3	Horizontal	54	1.01	-	39.30
AV	2.4835G	53.58	54.00	-0.42	30.96	3	Horizontal	54	1.01	-	22.62

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2462MHz_TX



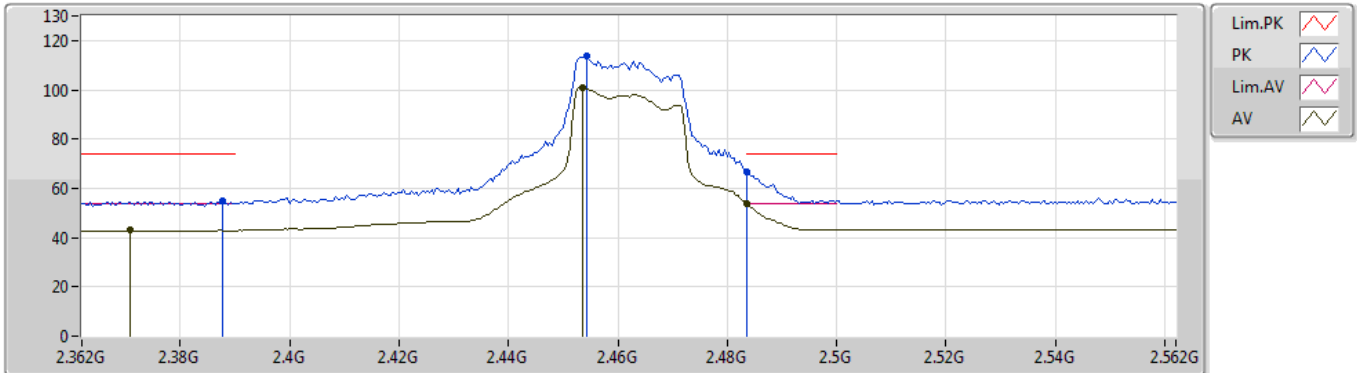
EUT Y_2TX
Setting 16
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3832G	55.15	74.00	-18.85	30.78	3	Vertical	56	2.63	-	24.37
AV	2.39G	42.93	54.00	-11.07	30.80	3	Vertical	56	2.63	-	12.13
PK	2.4552G	111.68	Inf	-Inf	30.93	3	Vertical	56	2.63	-	80.75
AV	2.4544G	99.09	Inf	-Inf	30.92	3	Vertical	56	2.63	-	68.17
PK	2.4835G	61.78	74.00	-12.22	30.96	3	Vertical	56	2.63	-	30.82
AV	2.4835G	47.52	54.00	-6.48	30.96	3	Vertical	56	2.63	-	16.56

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2462MHz_TX



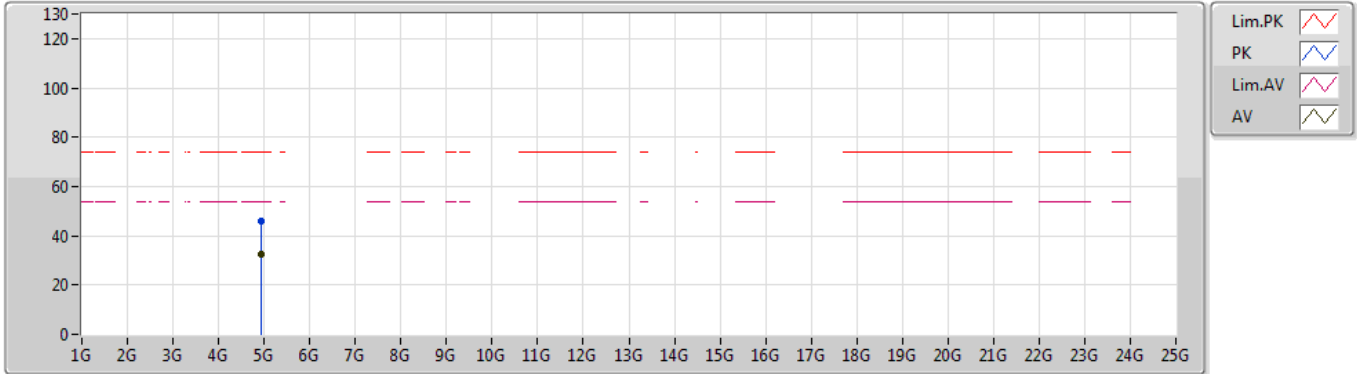
EUT Y_2TX
Setting 16
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3876G	54.85	74.00	-19.15	30.79	3	Horizontal	54	2.26	-	24.06
AV	2.3708G	42.87	54.00	-11.13	30.73	3	Horizontal	54	2.26	-	12.14
PK	2.4544G	113.91	Inf	-Inf	30.92	3	Horizontal	54	2.26	-	82.99
AV	2.4536G	100.95	Inf	-Inf	30.92	3	Horizontal	54	2.26	-	70.03
PK	2.4835G	66.87	74.00	-7.13	30.96	3	Horizontal	54	2.26	-	35.91
AV	2.4835G	53.73	54.00	-0.27	30.96	3	Horizontal	54	2.26	-	22.77

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2462MHz_TX



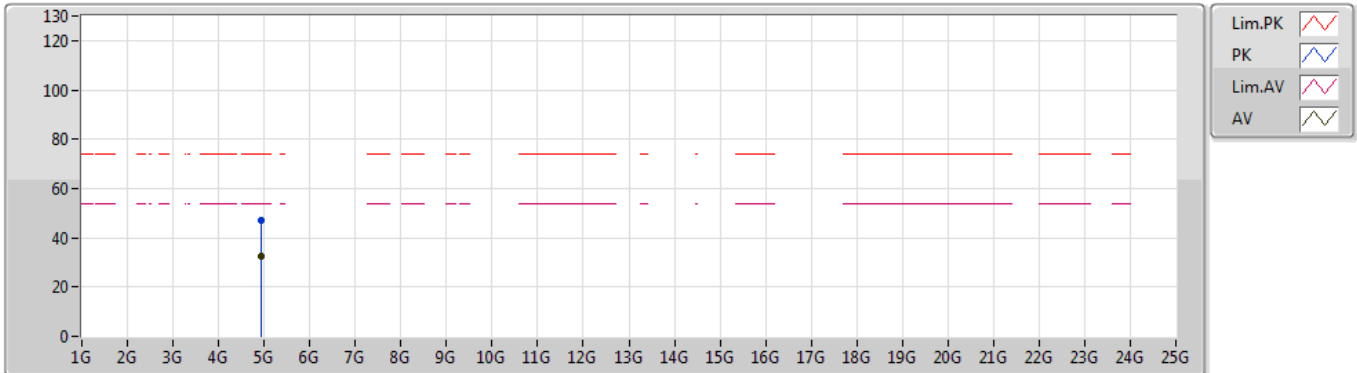
EUT Y_2TX
Setting 16
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.9246G	45.85	74.00	-28.15	4.04	3	Vertical	33	1.84	-	41.81
AV	4.92546G	32.73	54.00	-21.27	4.05	3	Vertical	33	1.84	-	28.68

802.11ax HEW20_Nss1,(MCS0)_2TX

14/09/2019

2462MHz_TX



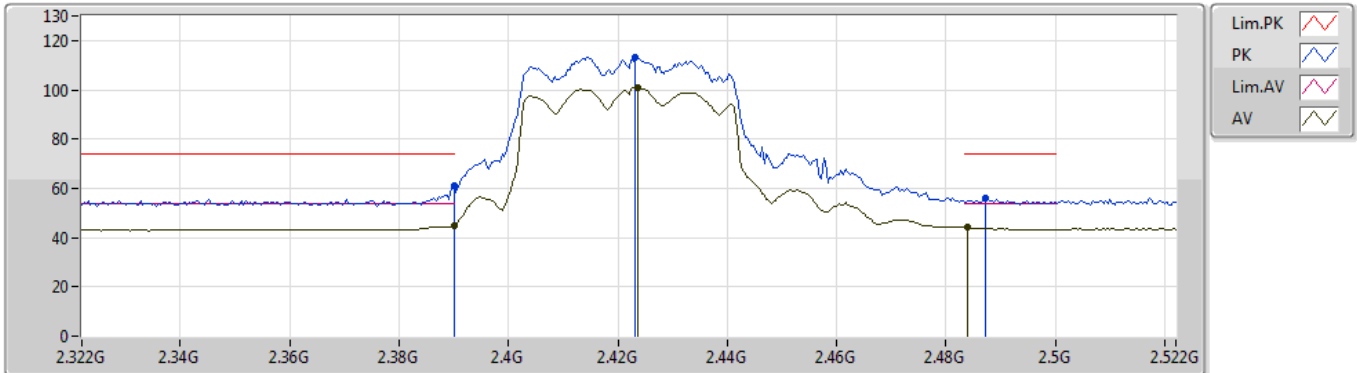
EUT Y_2TX
Setting 16
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.92595G	46.93	74.00	-27.07	4.05	3	Horizontal	178	2.34	-	42.88
AV	4.9254G	32.60	54.00	-21.40	4.05	3	Horizontal	178	2.34	-	28.55

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2422MHz_TX



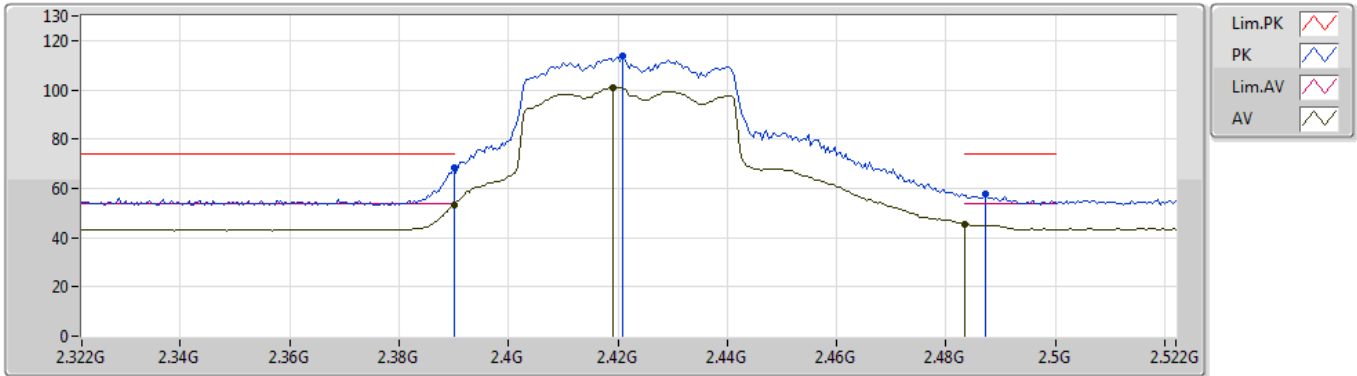
EUT Y_2TX
Setting 19
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.39G	60.98	74.00	-13.02	30.80	3	Vertical	40	2.73	-	30.18
AV	2.39G	44.70	54.00	-9.30	30.80	3	Vertical	40	2.73	-	13.90
PK	2.4232G	113.25	Inf	-Inf	30.87	3	Vertical	40	2.73	-	82.38
AV	2.4236G	100.89	Inf	-Inf	30.87	3	Vertical	40	2.73	-	70.02
PK	2.4872G	55.92	74.00	-18.08	30.97	3	Vertical	40	2.73	-	24.95
AV	2.484G	44.12	54.00	-9.88	30.96	3	Vertical	40	2.73	-	13.16

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2422MHz_TX



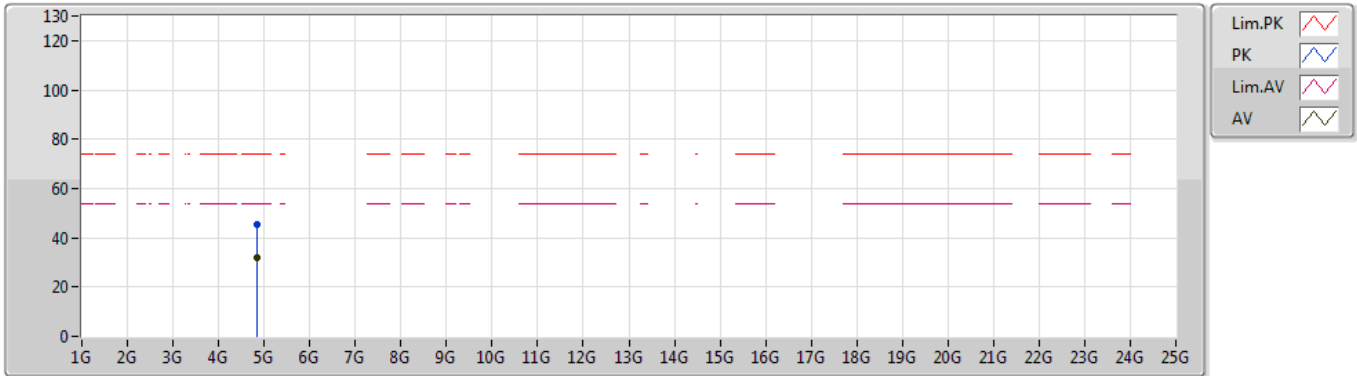
EUT Y_2TX
Setting 19
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.39G	68.53	74.00	-5.47	30.80	3	Horizontal	54	1.40	-	37.73
AV	2.39G	53.19	54.00	-0.81	30.80	3	Horizontal	54	1.40	-	22.39
PK	2.4208G	113.66	Inf	-Inf	30.87	3	Horizontal	54	1.40	-	82.79
AV	2.4192G	100.96	Inf	-Inf	30.87	3	Horizontal	54	1.40	-	70.09
PK	2.4872G	57.63	74.00	-16.37	30.97	3	Horizontal	54	1.40	-	26.66
AV	2.4835G	45.21	54.00	-8.79	30.96	3	Horizontal	54	1.40	-	14.25

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2422MHz_TX



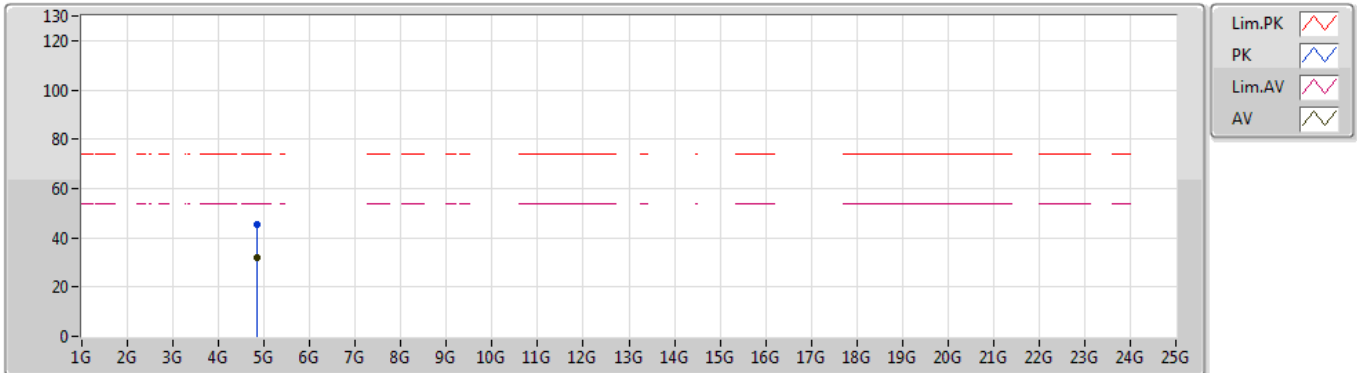
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Setting 19
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.84408G	45.49	74.00	-28.51	3.67	3	Vertical	196	1.80	-	41.82
AV	4.84426G	32.02	54.00	-21.98	3.67	3	Vertical	196	1.80	-	28.35

802.11ax HEW40_Nss1,(MCS0)_2TX

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2422MHz_TX



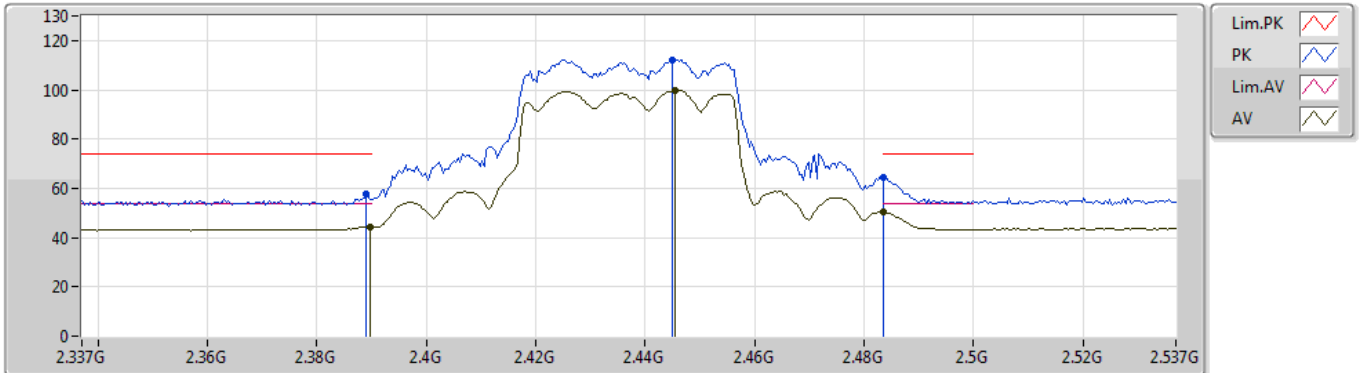
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Setting 19
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.84318G	45.41	74.00	-28.59	3.67	3	Horizontal	172	1.39	-	41.74
AV	4.84433G	31.92	54.00	-22.08	3.67	3	Horizontal	172	1.39	-	28.25

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



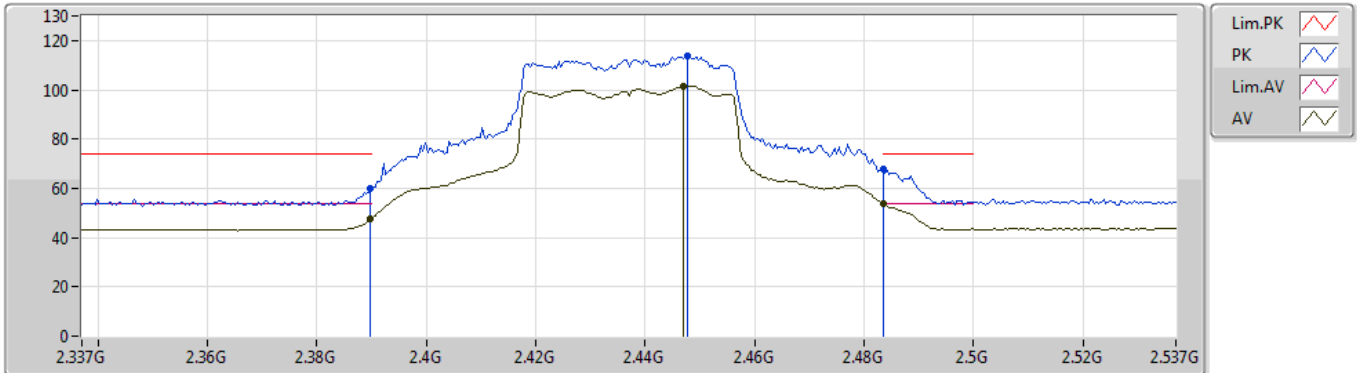
EUT Y_2TX
Setting 19.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.389G	57.47	74.00	-16.53	30.80	3	Vertical	60	1.31	-	26.67
AV	2.3898G	44.54	54.00	-9.46	30.80	3	Vertical	60	1.31	-	13.74
PK	2.445G	112.25	Inf	-Inf	30.91	3	Vertical	60	1.31	-	81.34
AV	2.4454G	99.98	Inf	-Inf	30.91	3	Vertical	60	1.31	-	69.07
PK	2.4835G	64.55	74.00	-9.45	30.96	3	Vertical	60	1.31	-	33.59
AV	2.4835G	50.41	54.00	-3.59	30.96	3	Vertical	60	1.31	-	19.45

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



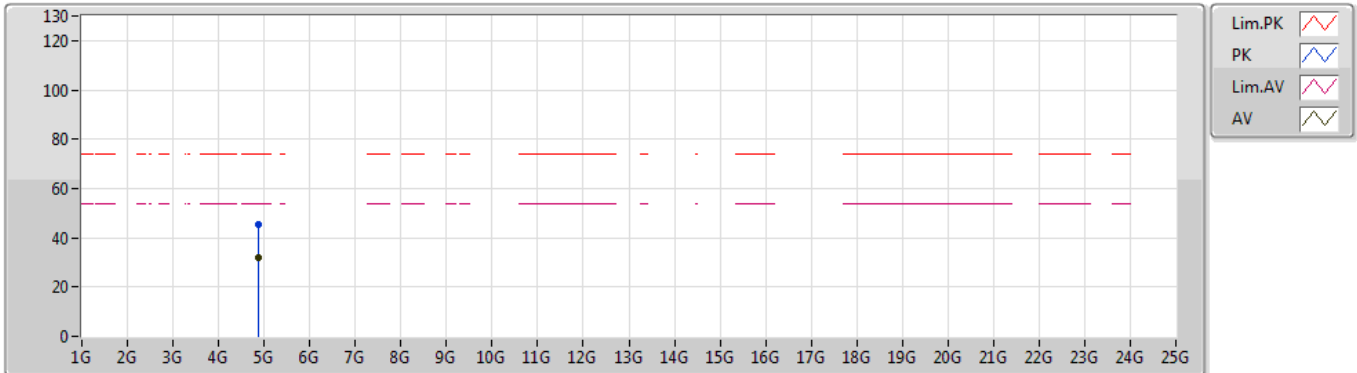
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Setting 19.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3898G	59.75	74.00	-14.25	30.80	3	Horizontal	58	2.25	-	28.95
AV	2.3898G	47.53	54.00	-6.47	30.80	3	Horizontal	58	2.25	-	16.73
PK	2.4478G	113.80	Inf	-Inf	30.91	3	Horizontal	58	2.25	-	82.89
AV	2.447G	101.69	Inf	-Inf	30.91	3	Horizontal	58	2.25	-	70.78
PK	2.4835G	67.59	74.00	-6.41	30.96	3	Horizontal	58	2.25	-	36.63
AV	2.4835G	53.91	54.00	-0.09	30.96	3	Horizontal	58	2.25	-	22.95

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



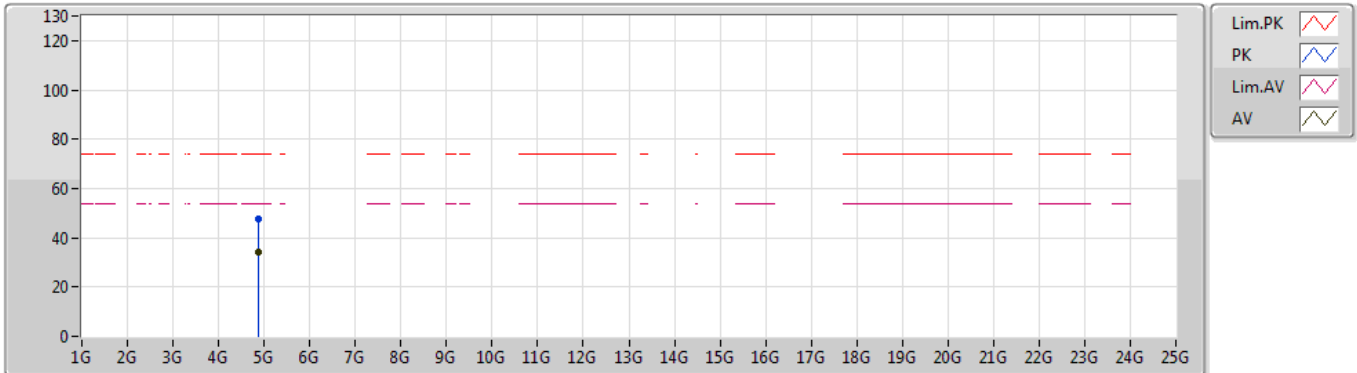
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Setting 19.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87281G	45.34	74.00	-28.66	3.81	3	Vertical	33	2.14	-	41.53
AV	4.87598G	32.06	54.00	-21.94	3.82	3	Vertical	33	2.14	-	28.24

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2437MHz_TX



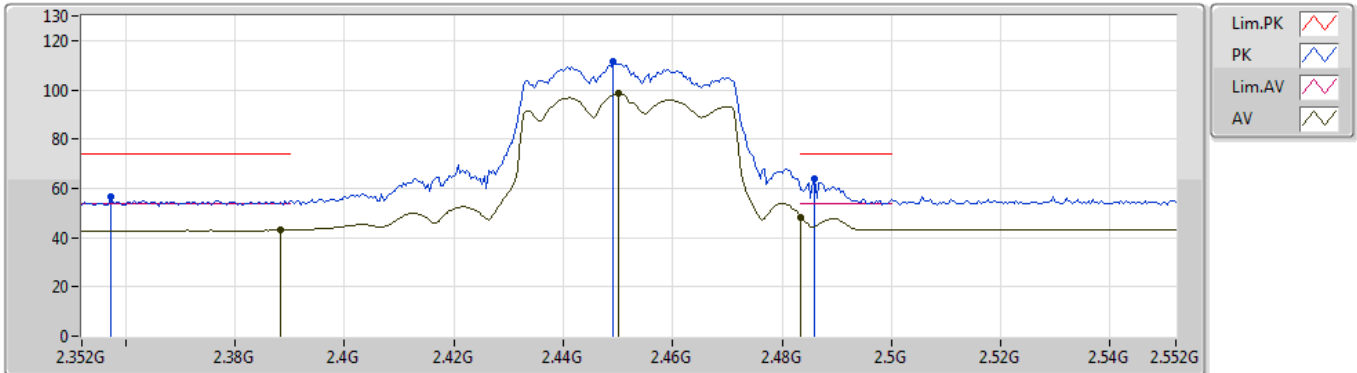
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Setting 19.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.87256G	47.84	74.00	-26.16	3.81	3	Horizontal	47	2.06	-	44.03
AV	4.87203G	34.08	54.00	-19.92	3.81	3	Horizontal	47	2.06	-	30.27

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2452MHz_TX



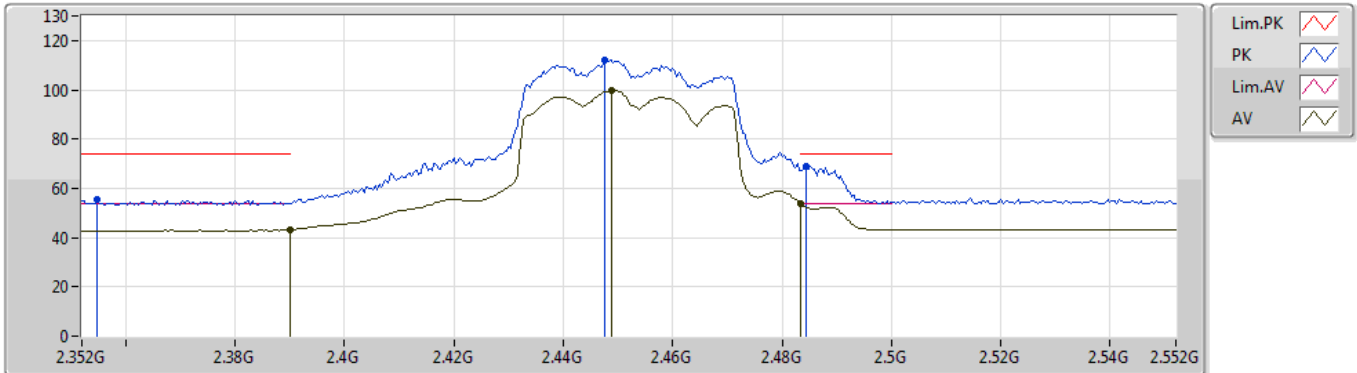
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3572G	56.37	74.00	-17.63	30.68	3	Vertical	63	1.32	-	25.69
AV	2.3884G	43.04	54.00	-10.96	30.80	3	Vertical	63	1.32	-	12.24
PK	2.4492G	111.25	Inf	-Inf	30.91	3	Vertical	63	1.32	-	80.34
AV	2.45G	98.37	Inf	-Inf	30.92	3	Vertical	63	1.32	-	67.45
PK	2.486G	63.83	74.00	-10.17	30.97	3	Vertical	63	1.32	-	32.86
AV	2.4835G	48.03	54.00	-5.97	30.96	3	Vertical	63	1.32	-	17.07

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2452MHz_TX



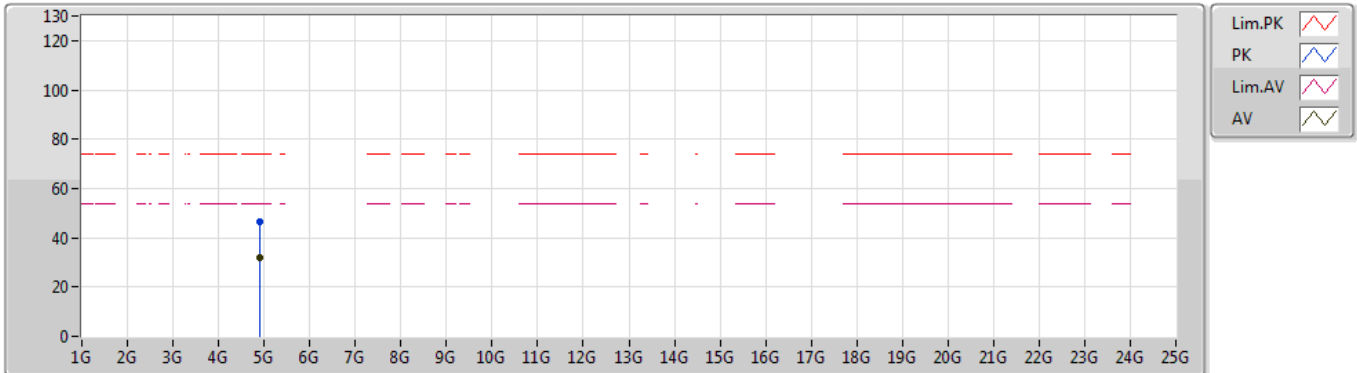
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3548G	55.46	74.00	-18.54	30.66	3	Horizontal	54	1.01	-	24.80
AV	2.39G	43.10	54.00	-10.90	30.80	3	Horizontal	54	1.01	-	12.30
PK	2.4476G	111.95	Inf	-Inf	30.91	3	Horizontal	54	1.01	-	81.04
AV	2.4488G	99.69	Inf	-Inf	30.91	3	Horizontal	54	1.01	-	68.78
PK	2.4844G	68.88	74.00	-5.12	30.96	3	Horizontal	54	1.01	-	37.92
AV	2.4835G	53.69	54.00	-0.31	30.96	3	Horizontal	54	1.01	-	22.73

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2452MHz_TX



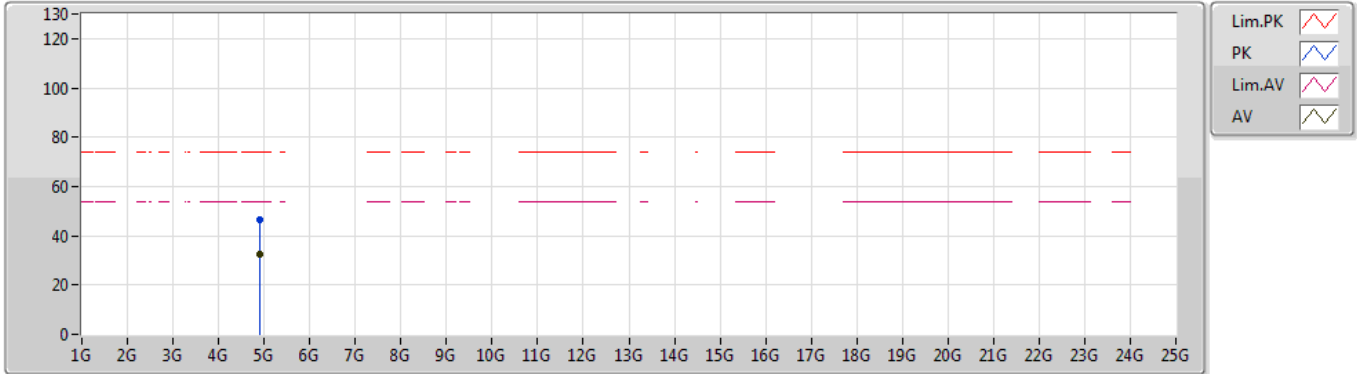
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Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.90502G	46.40	74.00	-27.60	3.96	3	Vertical	56	1.48	-	42.44
AV	4.90796G	32.18	54.00	-21.82	3.96	3	Vertical	56	1.48	-	28.22

802.11ax HEW40_Nss1,(MCS0)_2TX

14/09/2019

2452MHz_TX



EUT Y_2TX
Setting 17.5
01-M-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.90268G	46.23	74.00	-27.77	3.94	3	Horizontal	35	1.97	-	42.29
AV	4.90234G	32.45	54.00	-21.55	3.94	3	Horizontal	35	1.97	-	28.51