



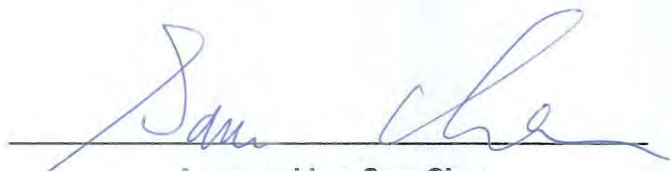
FCC RADIO TEST REPORT

FCC ID : 2ADZRHA0236GA
Equipment : Home Broadband Wi-Fi Extender
Brand Name : T-Mobile
Model Name : HA-0236G-A
Applicant : Nokia Shanghai Bell Co. Ltd.
No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai , China
201206
Manufacturer : Nokia Shanghai Bell Co. Ltd.
No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai , China
201206
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 10, 2019, and testing was started from Jan. 15, 2020 and completed on Mar. 11, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: 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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Cliff Chang
Report Producer: Vicky Huang



1 General Description

1.1 Information

1.1.1 RF General Information

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

For Galtronics antenna

Set	Ant.	Port	Brand	Model Name	Cable Color	Antenna Type	Connector	Gain (dBi)
1	1	1	Galtronics	02102140-07035-1	White	Dipole Antenna	U.FL	Note
	2	2	Galtronics	02102140-07035-2	Black	Dipole Antenna	U.FL	Note
	3	1	Galtronics	02102142-07035-1	Red	Dipole Antenna	U.FL	Note
	4	2	Galtronics	02102142-07035-2	Green	Dipole Antenna	U.FL	Note
	5	3	Galtronics	02102142-07035-3	Blue	Dipole Antenna	U.FL	Note
	6	4	Galtronics	02102142-07035-4	Grey	Dipole Antenna	U.FL	Note

Note:

Ant.	Port	Peak Gain (dBi)		
		2.4GHz	5G Band 1	5G Band 4
1	1	2.47	2.32	-
2	2	2.19	2.48	-
3	1	-	-	2.15
4	2	-	-	1.38
5	3	-	-	1.83
6	4	-	-	1.82

Ant.	Port	Max Directional Gain (dBi)		
		2.4GHz	5G Band 1	5G Band 4
1	1	2.26	5.24	-
2	2			-
3	1	-	-	5.6
4	2	-	-	
5	3	-	-	
6	4	-	-	



For Inpaq antenna

Set	Ant.	Port	Brand	Model Name	Cable Color	Antenna Type	Connector	Gain (dBi)
2	1	1	Inpaq	RFDPA072516IMLB9C1	White	Dipole Antenna	I-PEX	Note
	2	2	Inpaq	RFDPA072511IMLB9C1	Black	Dipole Antenna	I-PEX	Note
	3	1	Inpaq	RFDPA051106IM5B9C1	Red	Dipole Antenna	I-PEX	Note
	4	2	Inpaq	RFDPA051105IM5B9C1	Green	Dipole Antenna	I-PEX	Note
	5	3	Inpaq	RFDPA051108IM5B9C1	Blue	Dipole Antenna	I-PEX	Note
	6	4	Inpaq	RFDPA051110IM5B9C1	Grey	Dipole Antenna	I-PEX	Note

Note:

Ant.	Port	Peak Gain (dBi)		
		2.4GHz	5G Band 1	5G Band 4
1	1	2.97	4.66	-
2	2	3.54	3.63	-
3	1	-	-	1.72
4	2	-	-	1.5
5	3	-	-	1.36
6	4	-	-	2.07

Ant.	Port	Max Directional Gain (dBi)		
		2.4GHz	5G Band 1	5G Band 4
1	1	4.98	5.07	-
2	2			-
3	1	-	-	5.8
4	2	-	-	
5	3	-	-	
6	4	-	-	

Note: The above information was declared by manufacturer.

The EUT has 2 sets antennas.

For Conducted test:

2.4GHz/5GHz band 4: Because Galtronics's antennas and Inpaq's antennas are the same type antennas, only the highest directional gain antennas "Inpaq's antennas" was tested and recorded in the report.

5GHz band 1: Because Galtronics's antennas and Inpaq's antennas are the same type antennas, only the highest directional gain antennas "Galtronics's antennas" was tested and recorded in the report.

For Radiated test:

2.4GHz/5GHz band 1: Because Galtronics's antennas and Inpaq's antennas are the same type antennas, only the highest peak gain antennas "Inpaq's antennas" was tested and recorded in the report.

5GHz band 4: Because Galtronics's antennas and Inpaq's antennas are the same type antennas, only the highest peak gain antennas "Galtronics's antennas" was tested and recorded in the report.



<For 2.4GHz Function>

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

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

Ant. 1(Port 1) and Ant. 2(Port 2) could transmit/receive simultaneously.

<For 5GHz Band 1 Function>

For IEEE 802.11a/n/ac/ax mode (2TX/2RX):

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

Ant. 1(Port 1) and Ant. 2(Port 2) could transmit/receive simultaneously.

<For 5GHz Band 4 Function>

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

Ant. 3(Port 1) 、 Ant. 4(Port 2) 、 Ant. 5(Port 3) and Ant. 6(Port 4) can be used as transmitting/receiving antenna.

Ant. 3(Port 1) 、 Ant. 4(Port 2) 、 Ant. 5(Port 3) and Ant. 6(Port 4) could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.626	2.03	673.077u	3k
802.11g	0.919	0.37	1.434m	1k
802.11ax HEW20	0.884	0.54	5.447m	300
802.11ax HEW20-BF	0.975	0.11	1.766m	1k
802.11ax HEW40	0.964	0.16	5.447m	300
802.11ax HEW40-BF	0.973	0.12	1.765m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for 802.11n/ax 、 VHT in 2.4G and 802.11n/ac/ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Test Software Version	non-beamforming mode: QSPR beamforming mode: TeraTerm 、 iperf			

Note: The above information was declared by manufacturer.



1.1.5 Table for EUT Support Function

Type of Function	2.4GHz	5GHz Band 1	5GHz Band 4
Router Mode	√	√	√
Mesh Mode	-	-	√

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

1.1.6 Table for Multiple Listing

Model Name	Kit Code	EMA Code	Part Description
HA-0236G-A	3FE48251AAAA	3FE 48265 AAAA	Nokia T-mobile extender 2Gigabit Ethernet, AX4200 Triband WiFi6,US plug



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	TH03-CB	Lucas Huang	23.8~24.9°C / 50~54%	Jan. 20, 2020~ Jan. 21, 2020
Radiated (Below 1GHz)	03CH05-CB	Cola Fan	20.9~21.2°C / 50~54%	Mar. 09, 2020
Radiated (Above 1GHz- Radiated Emission Co-location)	03CH05-CB	Cola Fan	20.9~21.2°C / 50~54%	Mar. 09, 2020
Radiated (Above 1GHz- Emissions in Restricted Frequency Bands)	03CH01-CB	Paul Chen	23.3~25.2°C / 50~55%	Jan. 15, 2020~ Jan. 21, 2020
AC Conduction	CO01-CB	Max Lin	21~22°C / 58~59%	Mar. 11, 2020

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	25.5
2417MHz	26
2437MHz	27
2462MHz	27
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	23.5
2417MHz	24.5
2437MHz	26.5
2462MHz	24
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	22.5
2417MHz	24.5
2437MHz	26.5
2457MHz	24
2462MHz	23.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	19
2427MHz	20
2437MHz	23
2447MHz	19.5
2452MHz	19.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	27
2437MHz	28
2457MHz	26
2462MHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	24
2437MHz	25
2447MHz	22
2452MHz	22

Note:

There are two functions of EUT, one is beamforming function, and the other is non-beamforming function for 802.11n/ax 、VHT in 2.4G and 802.11n/ac/ax in 5GHz band. All test results were recorded in the report.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT with antenna set 1 + Adapter 1
2	EUT with antenna set 1 + Adapter 2
Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT with antenna set 2 + Adapter 1
For operating mode 3 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
Operating Mode	
1	EUT with antenna set 2

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



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz with antenna set 2 + WLAN 5GHz Band 1 with antenna set 2
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz with antenna set 2 + WLAN 5GHz Band 1 with antenna set 1 + WLAN 5GHz Band 4 with antenna set 2
Refer to Sporton Test Report No.: FA9D0907 for Co-location RF Exposure Evaluation.	

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

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed " teraterm \ iperf " to link with the remote workstation to transmit and receive packet by RX device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1	UE	UES24WU-120200SPA	INPUT: 100-240V~50/60Hz, 0.8A OUTPUT: 12.0V-2.0A
Adapter 2	RUIDE	RD1202000-C55-154MG	INPUT: 100-240V~50/60Hz, 1.0A MAX OUTPUT: 12.0V-2.0A
Other			
RJ-45 cable*1, Non-Shielded, 1m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN2 NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5GH NB	DELL	E6430	N/A
D	LAN1 NB	DELL	E6430	N/A
F	5GL NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	NB	DELL	E4300	N/A
D	NB	DELL	E4300	N/A
E	NB	DELL	E4300	N/A

For Radiated (above 1GHz) and RF Conducted:

For non-beamforming mode:

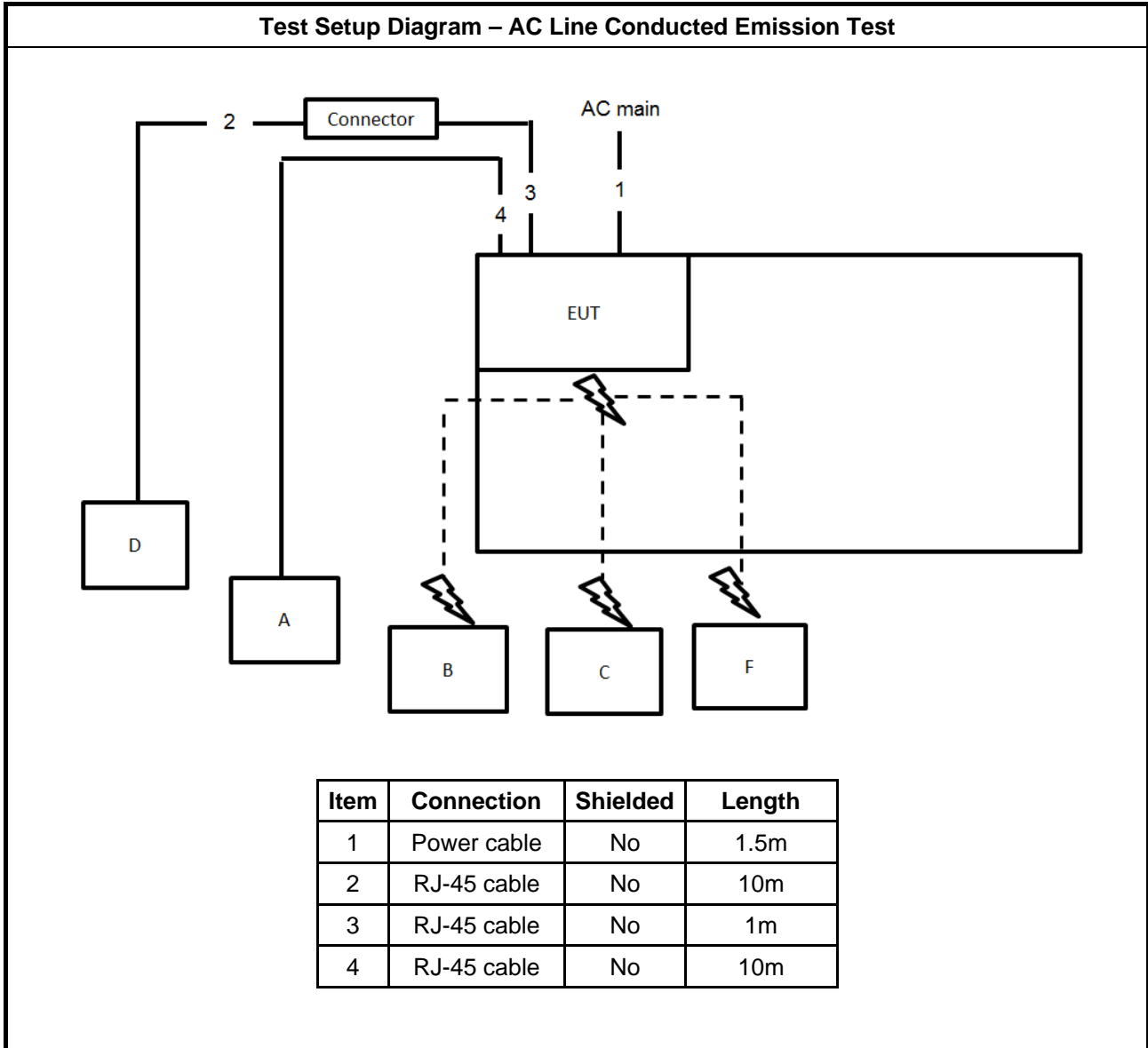
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A



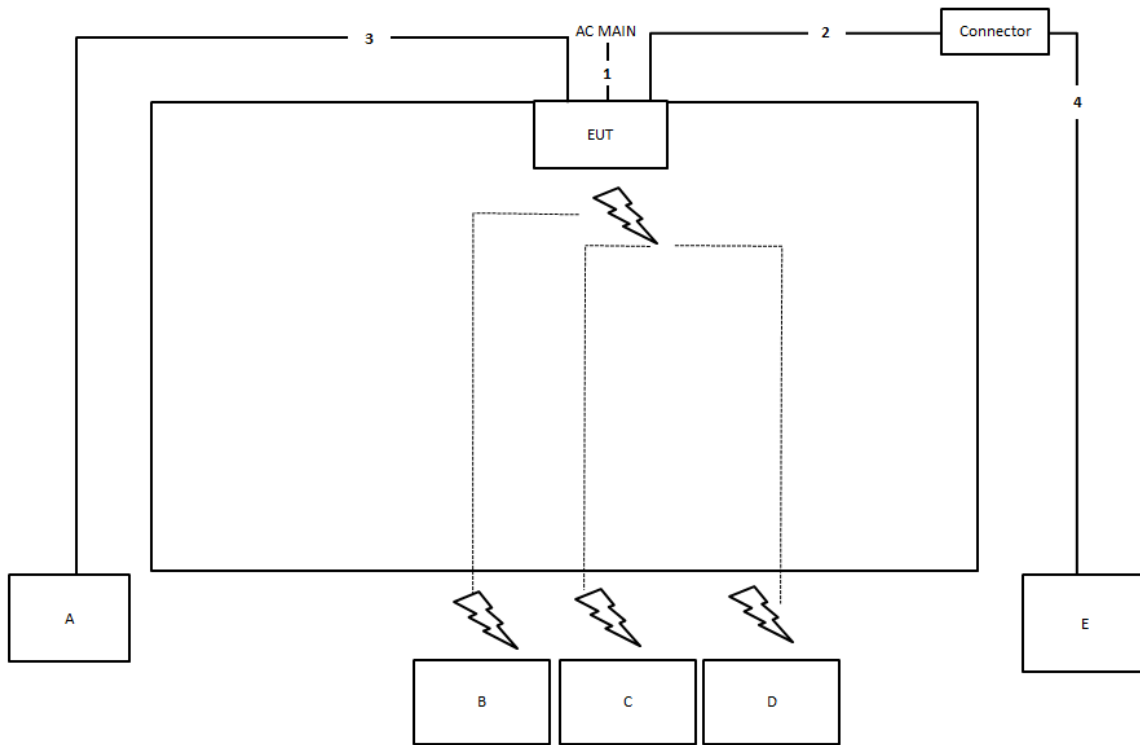
For beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	RX device	Nokia	HA-0236G-A/ HA-0336G-A	N/A

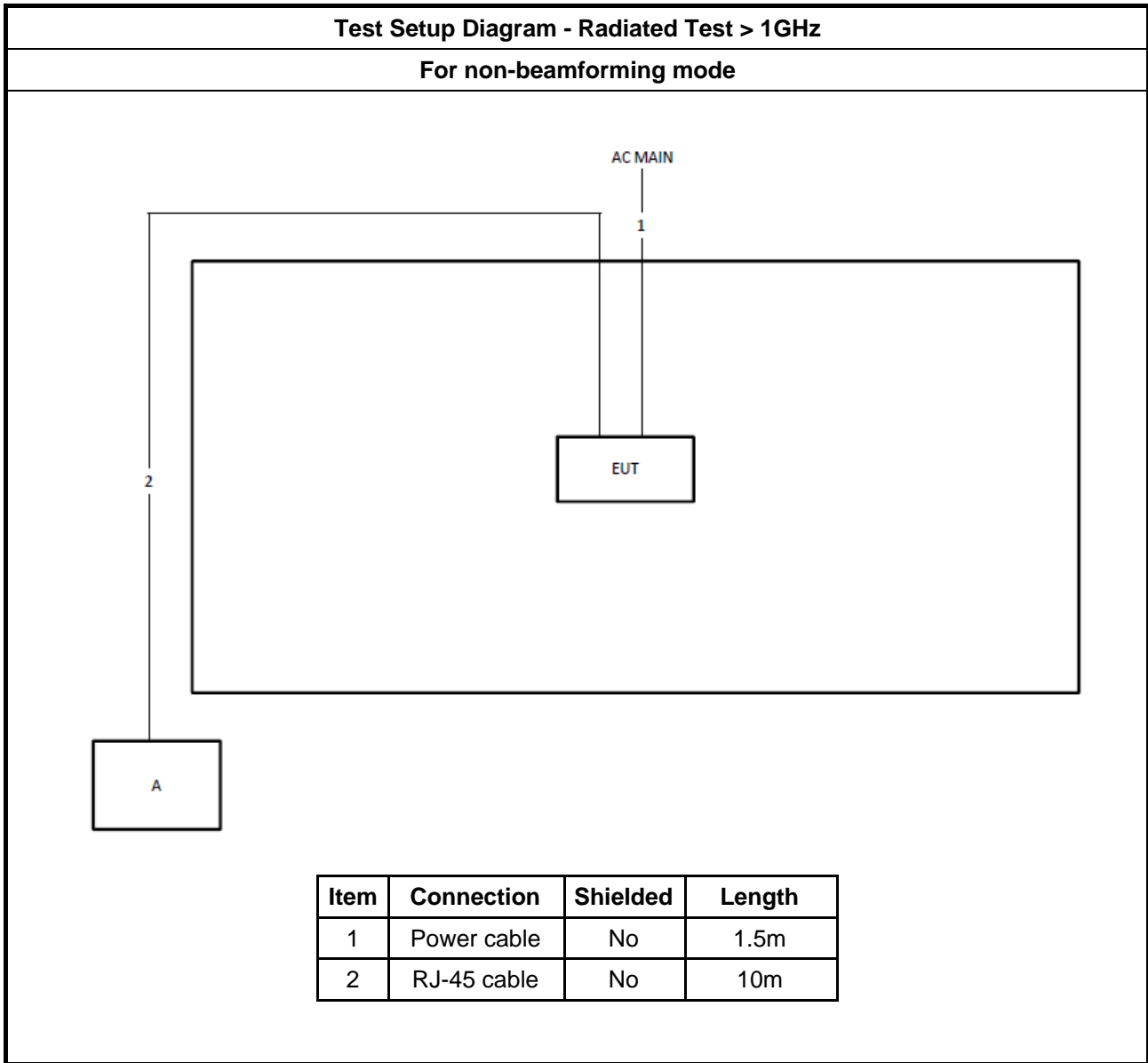
2.6 Test Setup Diagram

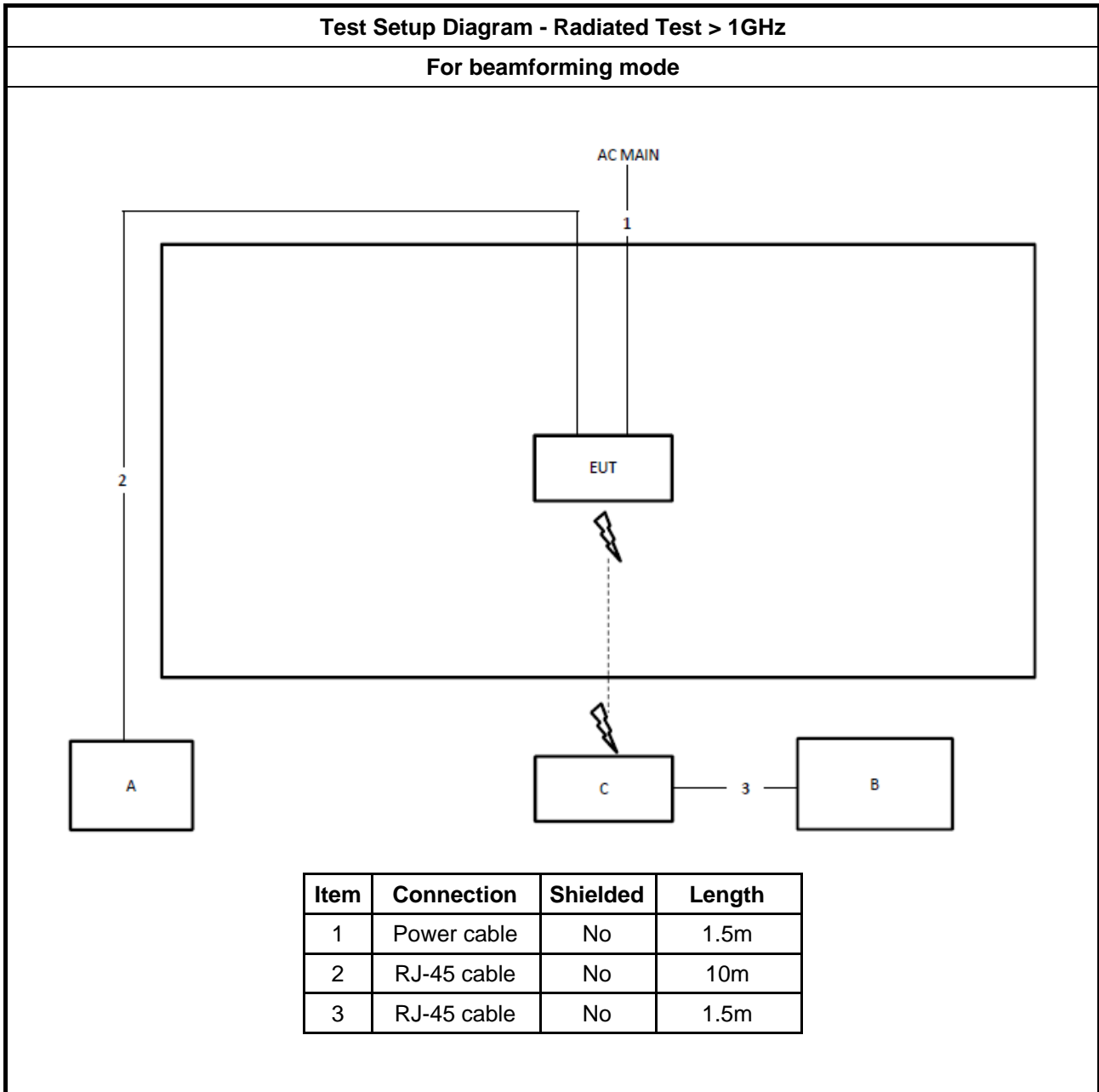


Test Setup Diagram - Radiated Test < 1GHz



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







3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

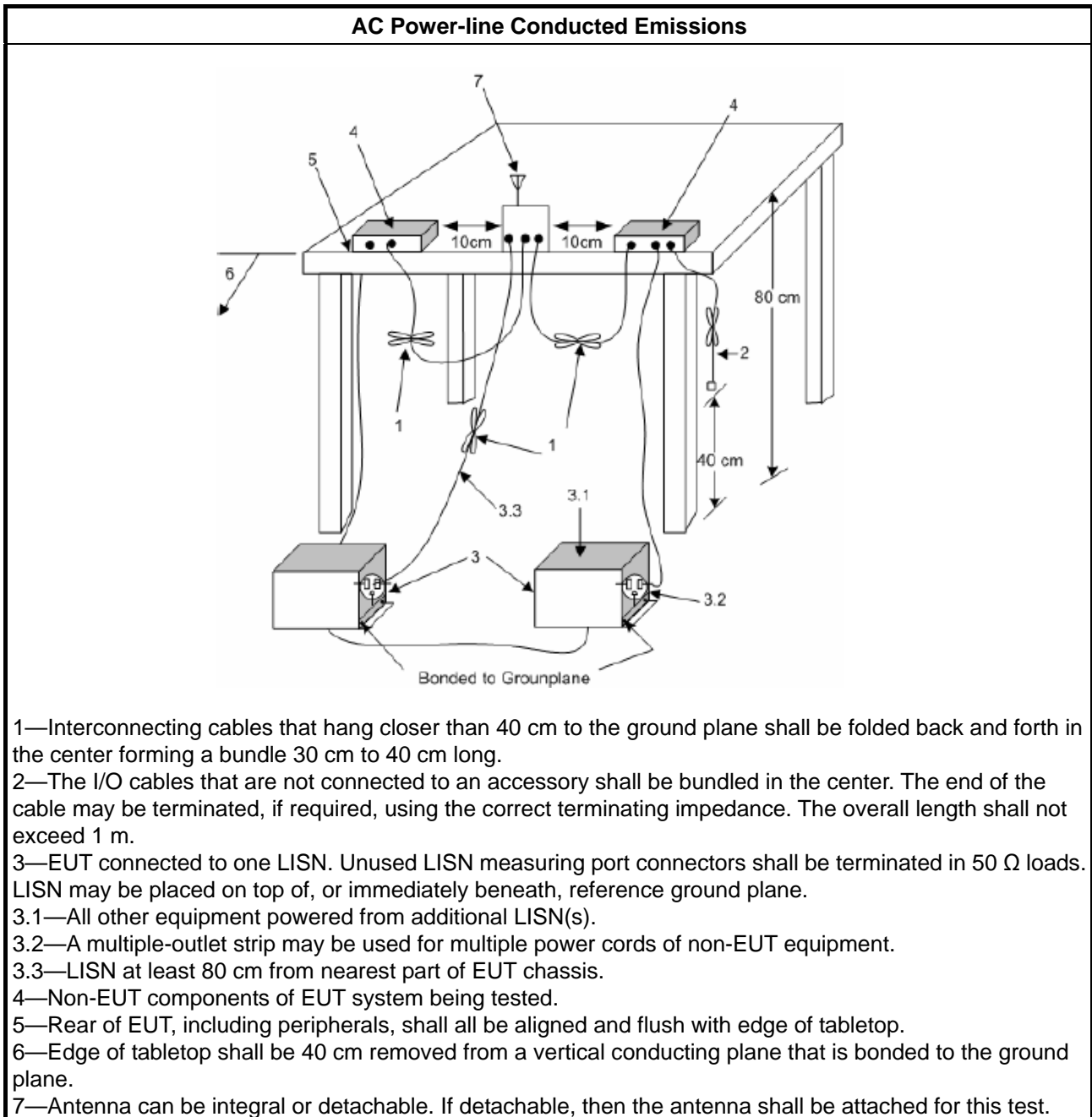
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

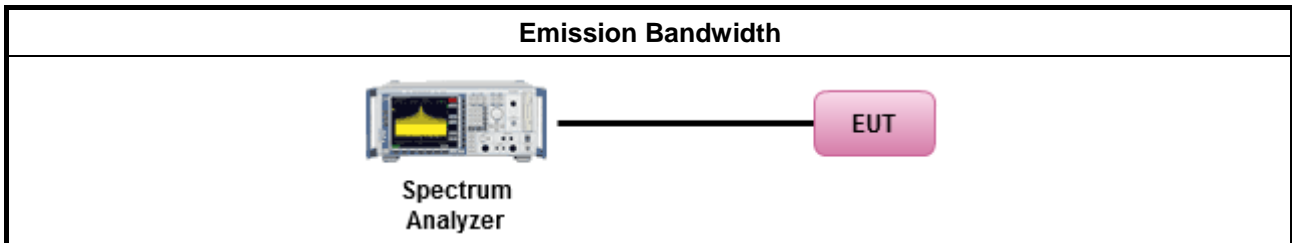
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & 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>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

3.3.2 Measuring Instruments

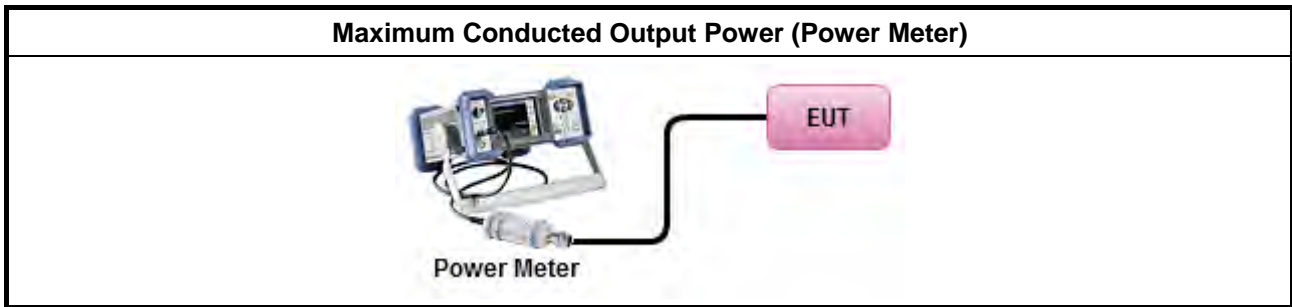
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input 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) \leq 8 dBm/3kHz

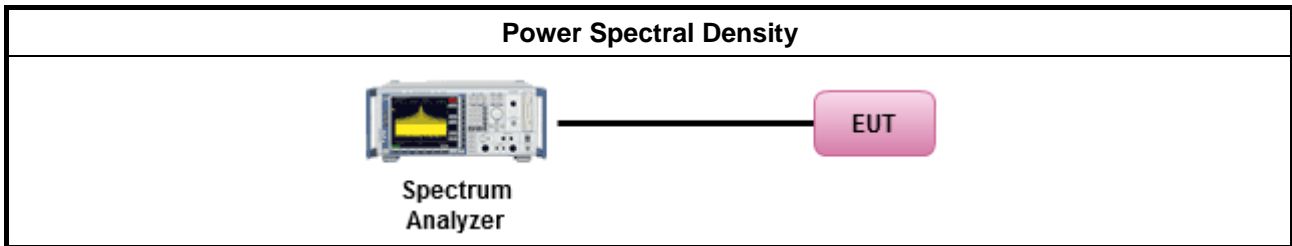
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method			
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). 			
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.			
<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: <table border="1"> <tbody> <tr> <td> <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. </td> </tr> <tr> <td> <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, </td> </tr> <tr> <td> <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. </td> </tr> </tbody> </table> 	<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.			
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

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.

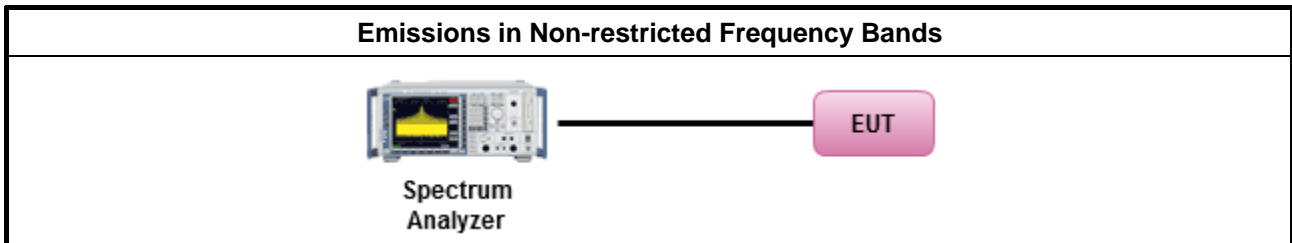
3.5.2 Measuring Instruments

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

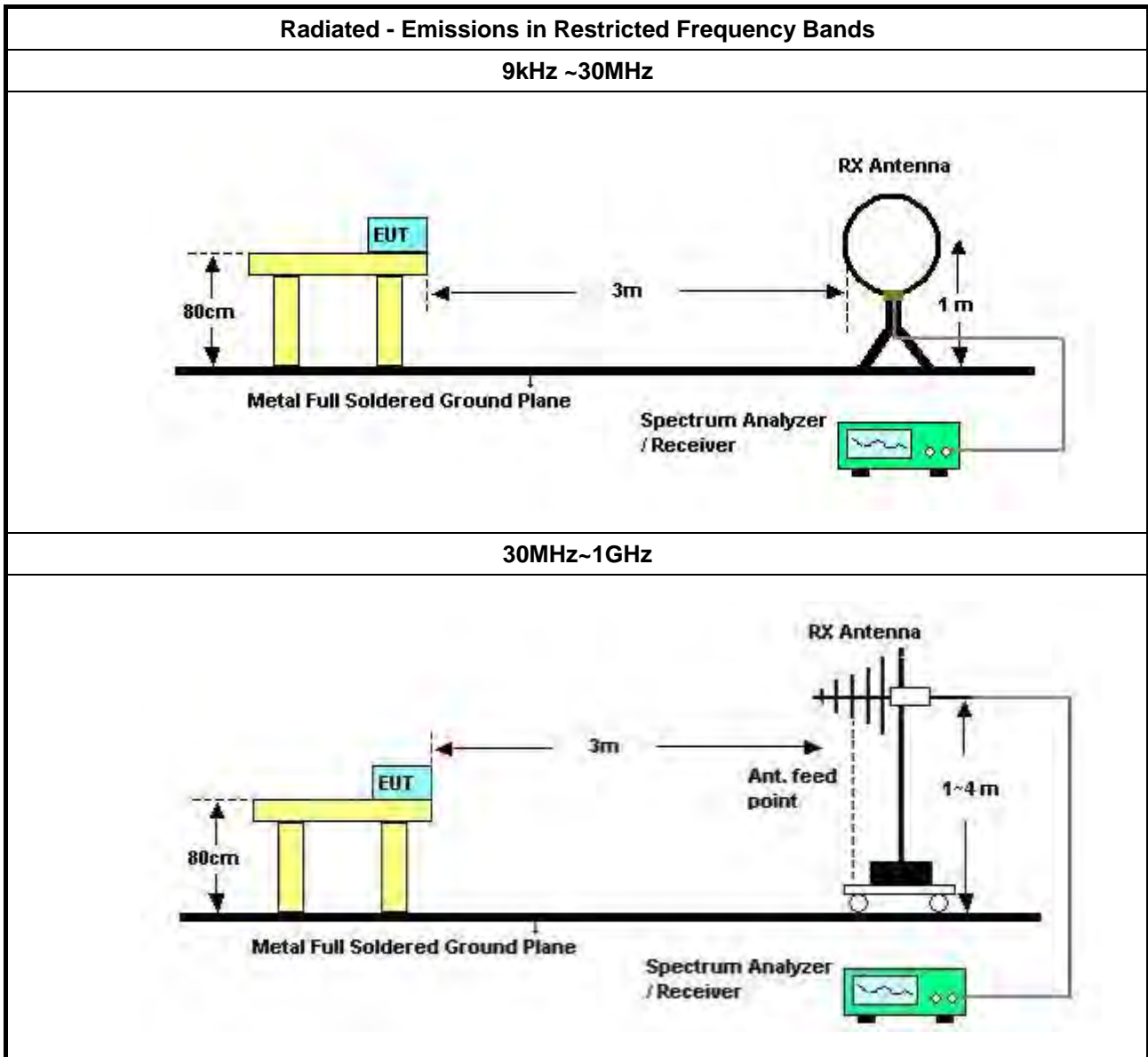
Refer a test equipment and calibration data table in this test report.

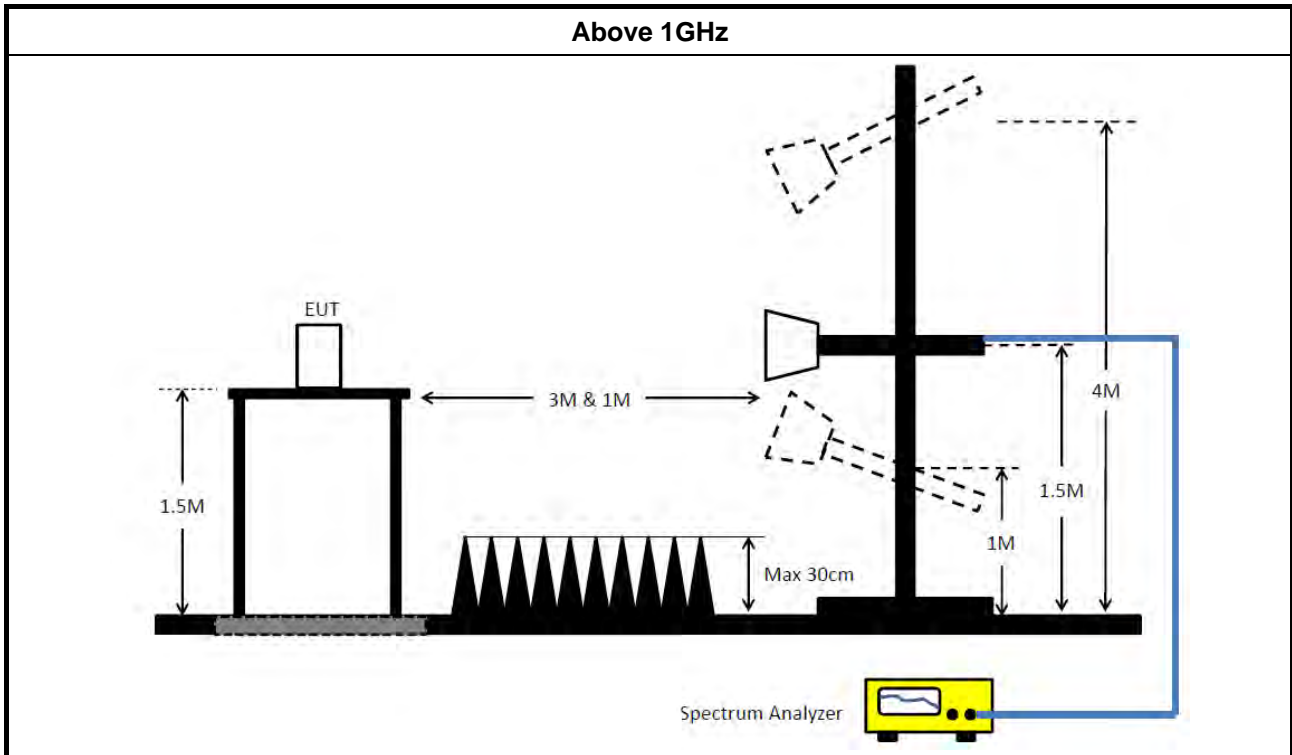


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 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	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	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	TESEQ & 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)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1291	1GHz~18GHz	Oct. 05, 2019	Oct. 04, 2020	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Apr. 16, 2019	Apr. 15, 2020	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Aug. 15, 2019	Aug. 14, 2020	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	LOW Cable-04+23	30MHz~1GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH05-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2019	Nov. 03, 2020	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2020	Jan. 07, 2021	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 07, 2019	Oct. 06, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Nov. 01, 2019	Oct. 31, 2020	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 13, 2019	Aug. 12, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz – 26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH03-CB)

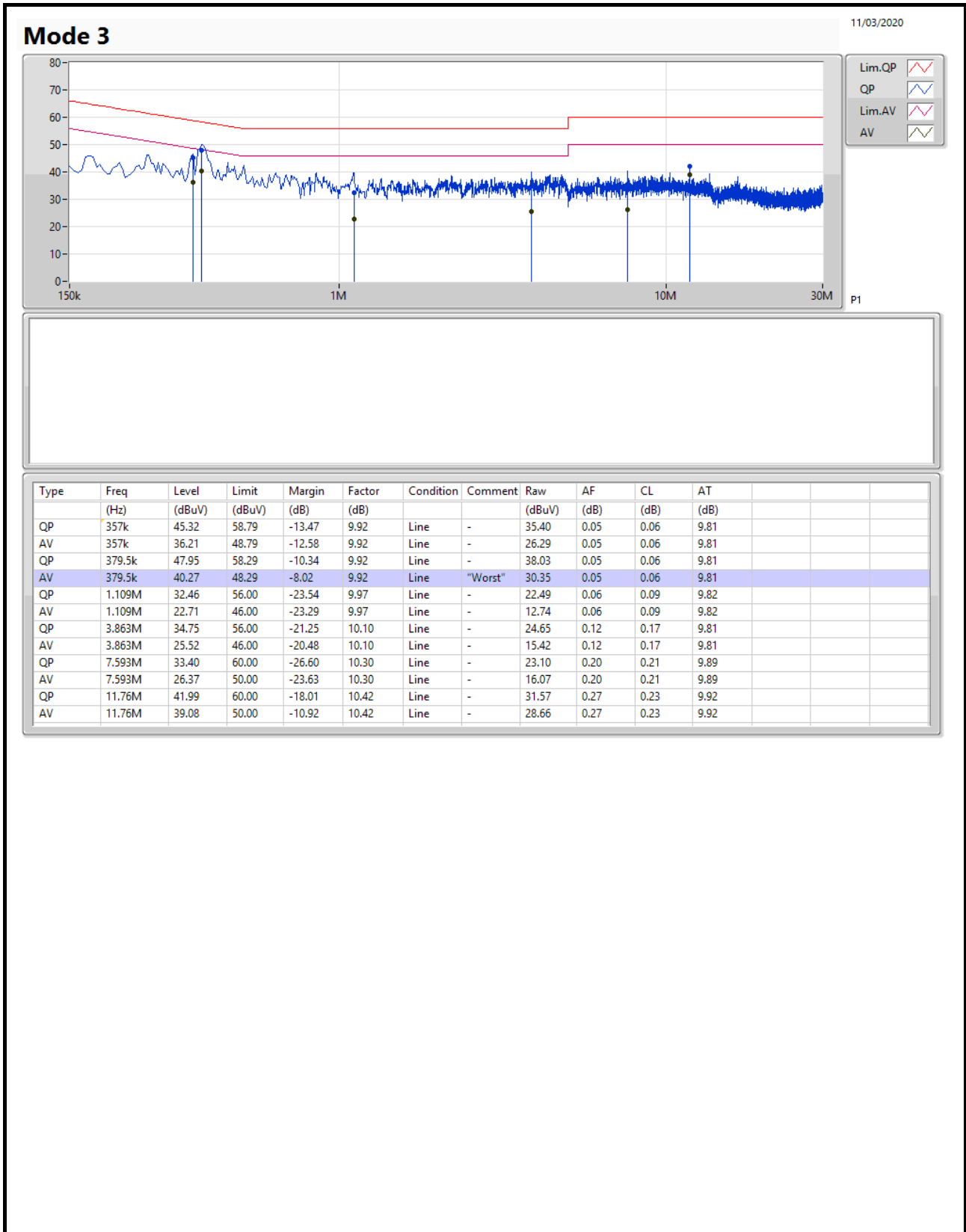
Note: Calibration Interval of instruments listed above is one year.

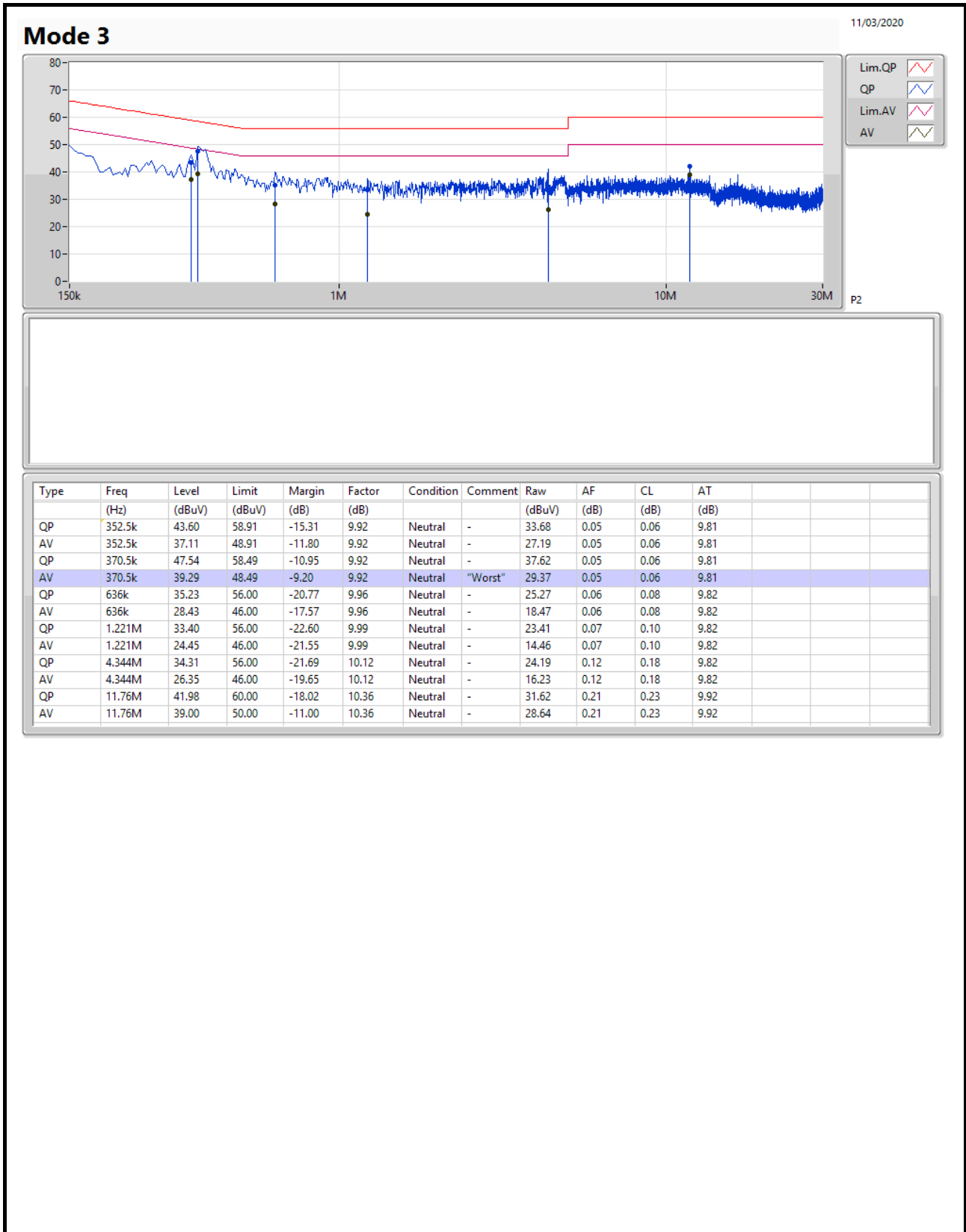
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition
Mode 3	Pass	AV	379.5k	40.27	48.29	-8.02	9.92	Line







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	8M	12.969M	13M0G1D	7.05M	12.919M
802.11g_Nss1,(6Mbps)_2TX	16.325M	16.417M	16M4D1D	16.275M	16.317M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.9M	18.941M	18M9D1D	18.575M	18.916M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.95M	37.781M	37M8D1D	37.45M	37.731M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.2M	18.916M	18M9D1D	15.025M	18.866M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	36.5M	37.781M	37M8D1D	4.2M	37.731M

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	7.075M	12.944M	8M	12.944M
2437MHz	Pass	500k	7.075M	12.944M	7.55M	12.944M
2462MHz	Pass	500k	7.05M	12.969M	7.55M	12.919M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.367M	16.3M	16.342M
2437MHz	Pass	500k	16.275M	16.417M	16.3M	16.367M
2462MHz	Pass	500k	16.325M	16.367M	16.275M	16.317M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.9M	18.916M	18.9M	18.941M
2437MHz	Pass	500k	18.575M	18.941M	18.9M	18.941M
2462MHz	Pass	500k	18.675M	18.916M	18.775M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.45M	37.731M	37.95M	37.781M
2437MHz	Pass	500k	37.6M	37.781M	37.85M	37.731M
2452MHz	Pass	500k	37.85M	37.781M	37.65M	37.781M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.2M	18.866M	16.275M	18.866M
2437MHz	Pass	500k	17.7M	18.866M	17.8M	18.891M
2462MHz	Pass	500k	18.2M	18.891M	15.025M	18.916M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	4.2M	37.731M	36.5M	37.731M
2437MHz	Pass	500k	31.25M	37.781M	28.05M	37.731M
2452MHz	Pass	500k	27.55M	37.781M	29.95M	37.731M

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

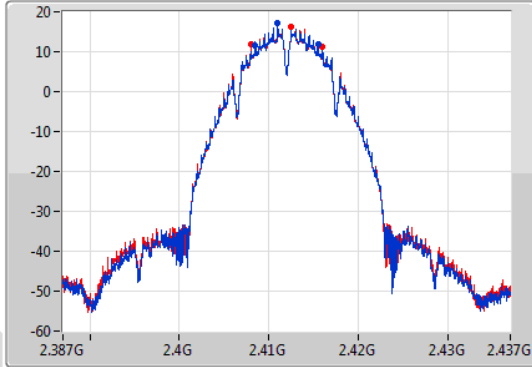
802.11b_Nss1,(1Mbps)_2TX

EBW

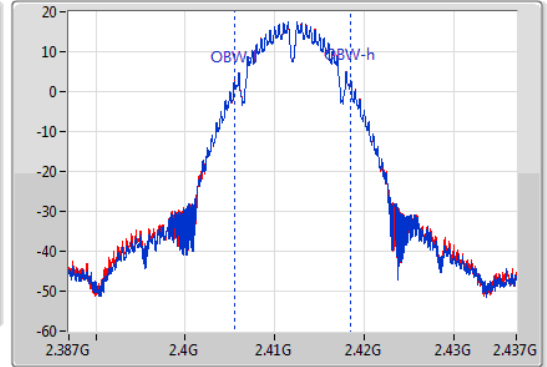
2412MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.075M	2.408475G	2.41555G	12.944M	2.405553G	2.418497G	500k	1
8M	2.408G	2.416G	12.944M	2.405553G	2.418497G	500k	2

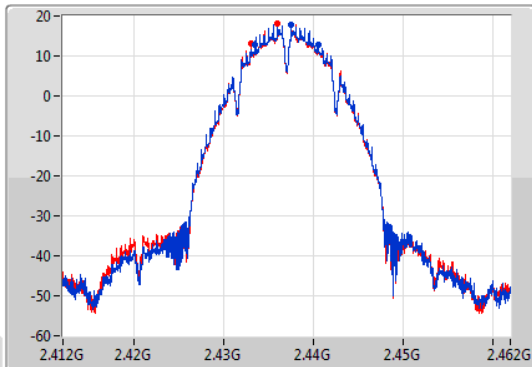
802.11b_Nss1,(1Mbps)_2TX

EBW

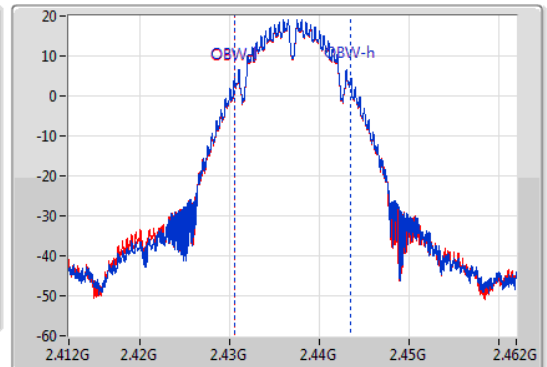
2437MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.075M	2.433475G	2.44055G	12.944M	2.430553G	2.443497G	500k	1
7.55M	2.433G	2.44055G	12.944M	2.430553G	2.443497G	500k	2

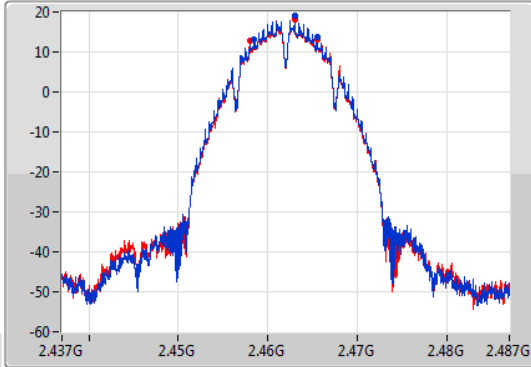
802.11b_Nss1,(1Mbps)_2TX

EBW

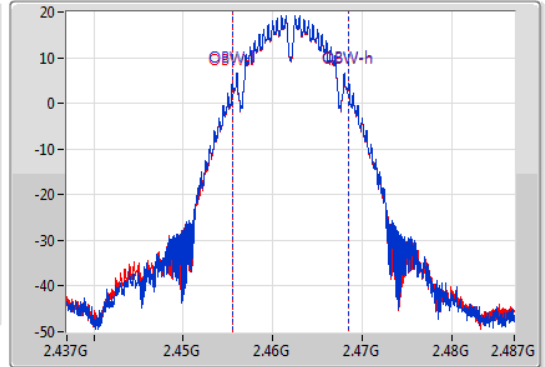
2462MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.05M	2.458475G	2.465525G	12.969M	2.455528G	2.468497G	500k	1
7.55M	2.458G	2.46555G	12.919M	2.455553G	2.468472G	500k	2

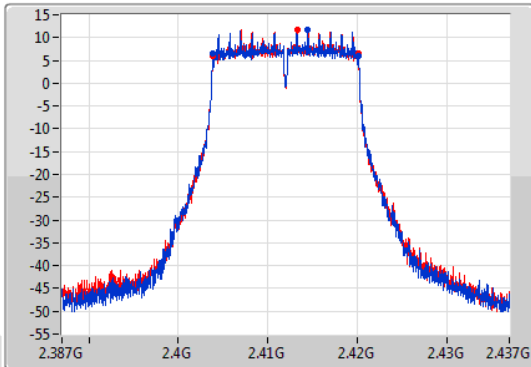
802.11g_Nss1,(6Mbps)_2TX

EBW

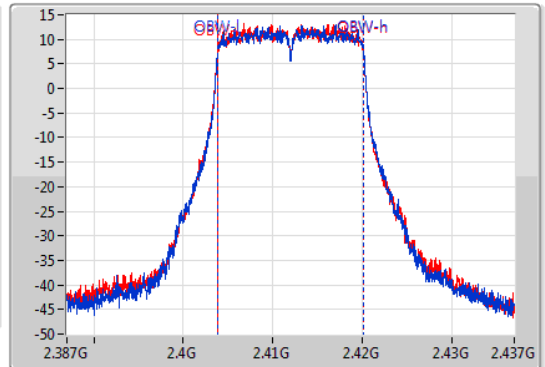
2412MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.40385G	2.420175G	16.367M	2.403829G	2.420196G	500k	1
16.3M	2.40385G	2.42015G	16.342M	2.403829G	2.420171G	500k	2

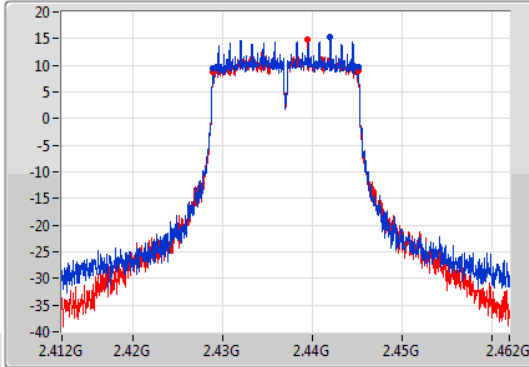
802.11g_Nss1,(6Mbps)_2TX

EBW

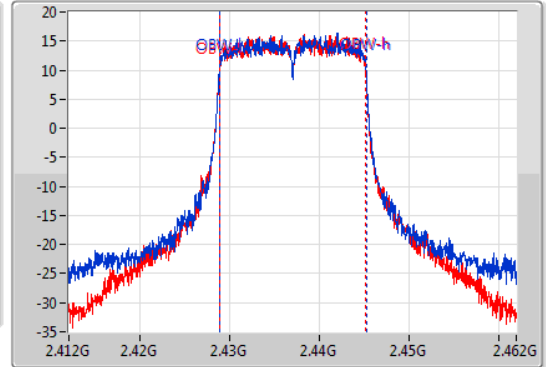
2437MHz

20/01/2020

CF
2.437GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.428875G	2.44515G	16.417M	2.428804G	2.445221G	500k	1
16.3M	2.42885G	2.44515G	16.367M	2.428804G	2.445171G	500k	2

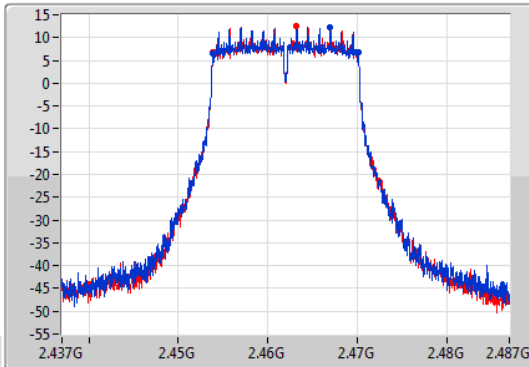
802.11g_Nss1,(6Mbps)_2TX

EBW

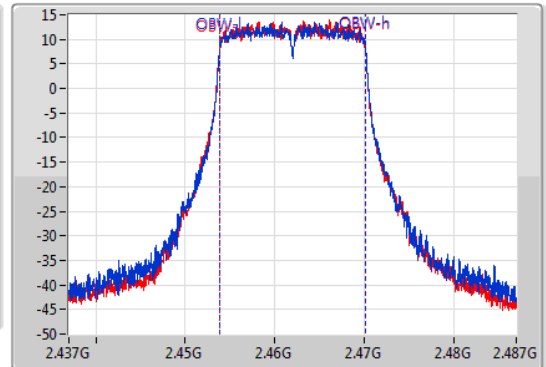
2462MHz

20/01/2020

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



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



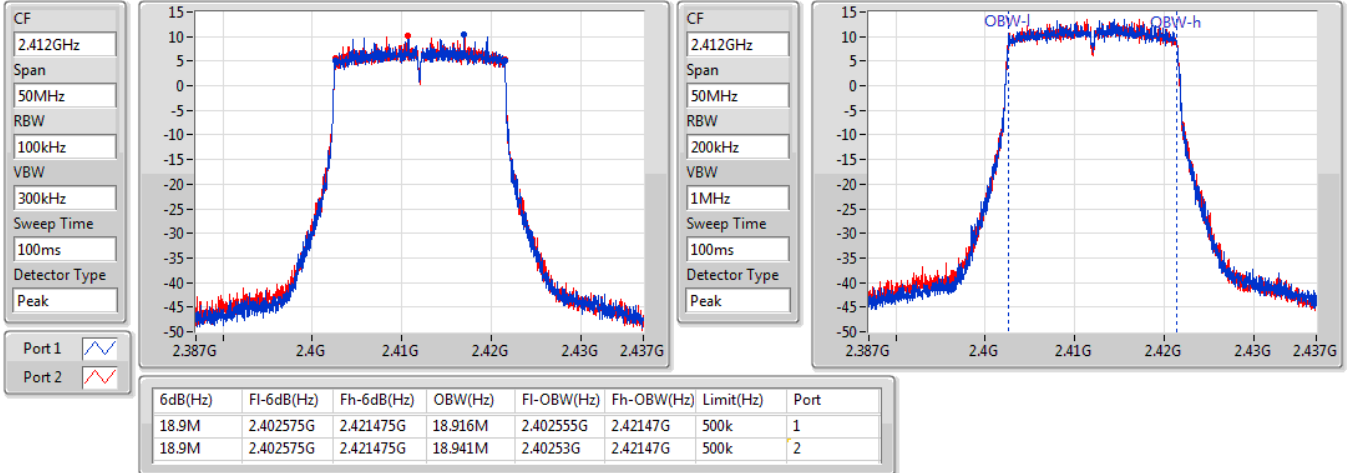
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.45385G	2.470175G	16.367M	2.453829G	2.470196G	500k	1
16.275M	2.453875G	2.47015G	16.317M	2.453829G	2.470146G	500k	2

802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

20/01/2020

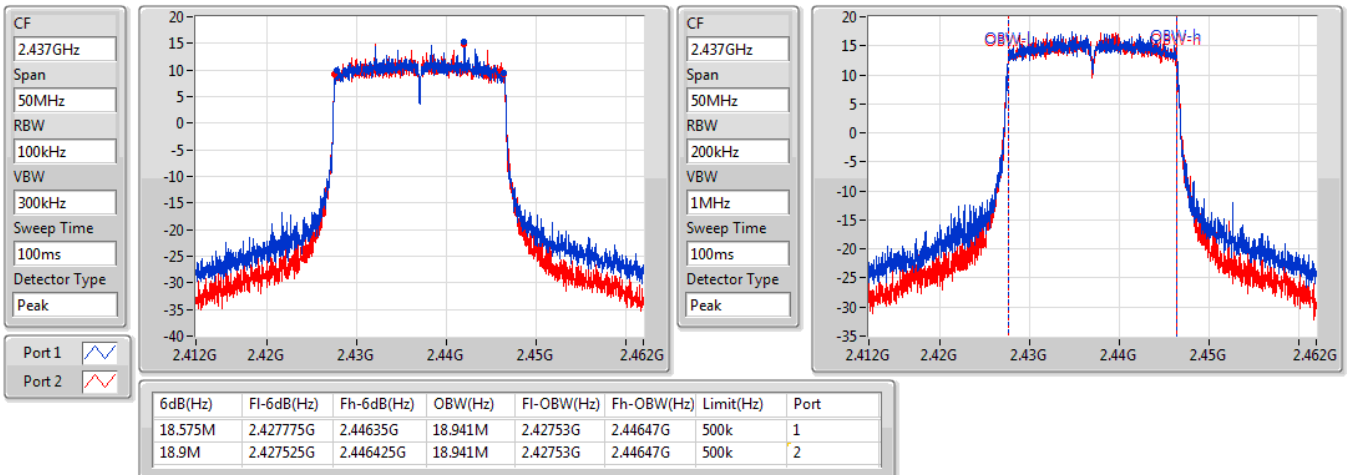


802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

20/01/2020



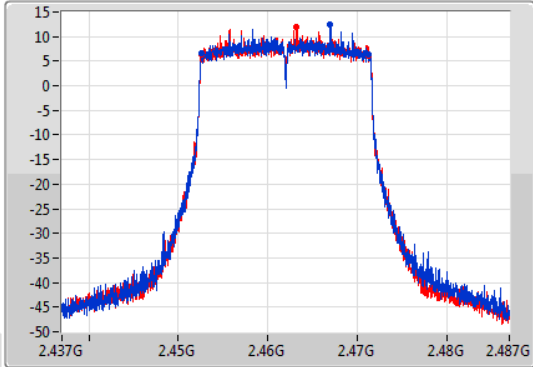
802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

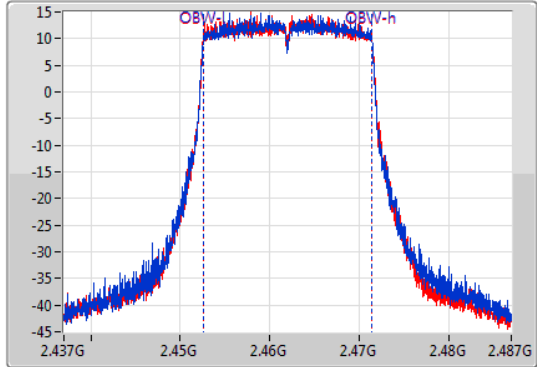
2462MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.675M	2.45265G	2.471325G	18.916M	2.452555G	2.47147G	500k	1
18.775M	2.45255G	2.471325G	18.941M	2.45253G	2.47147G	500k	2

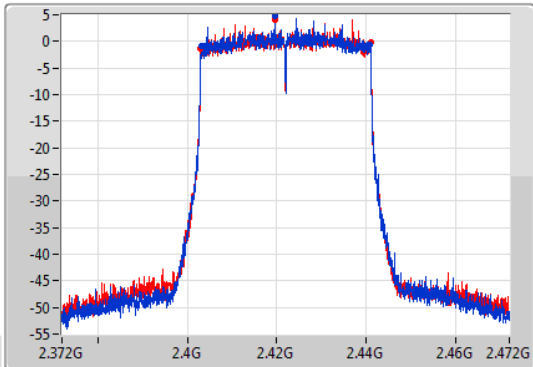
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

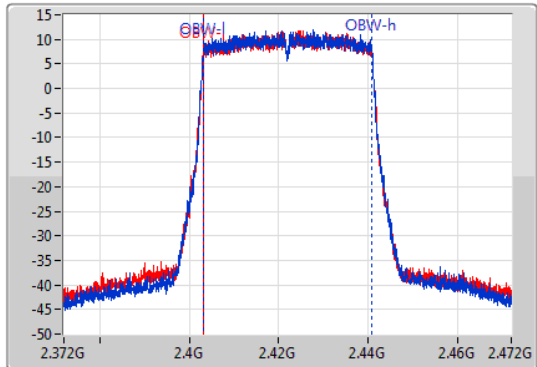
2422MHz

20/01/2020

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
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.45M	2.40325G	2.4407G	37.731M	2.403159G	2.440891G	500k	1
37.95M	2.40305G	2.441G	37.781M	2.403109G	2.440891G	500k	2

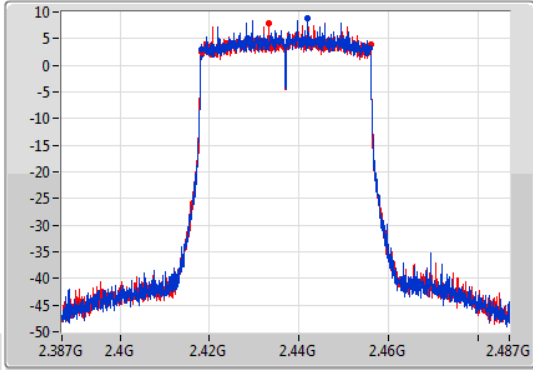
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

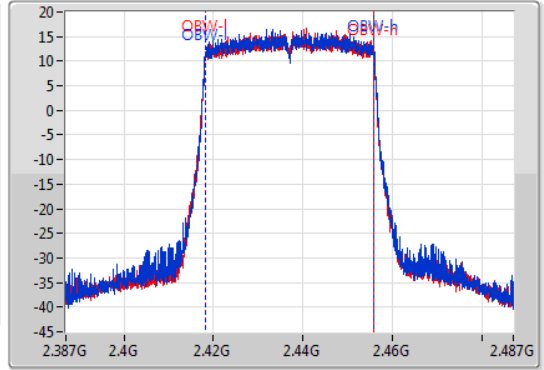
2437MHz

20/01/2020

CF
2.437GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



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



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.6M	2.41815G	2.45575G	37.781M	2.418159G	2.455941G	500k	1
37.85M	2.4181G	2.45595G	37.731M	2.418159G	2.455891G	500k	2

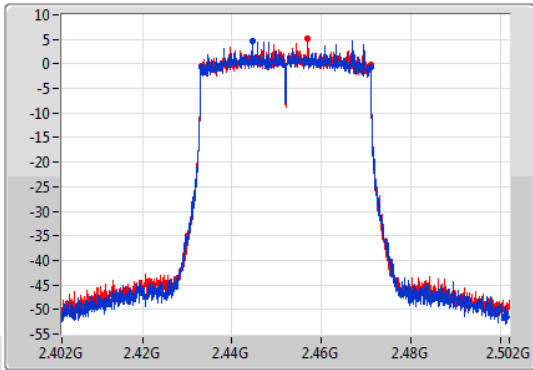
802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

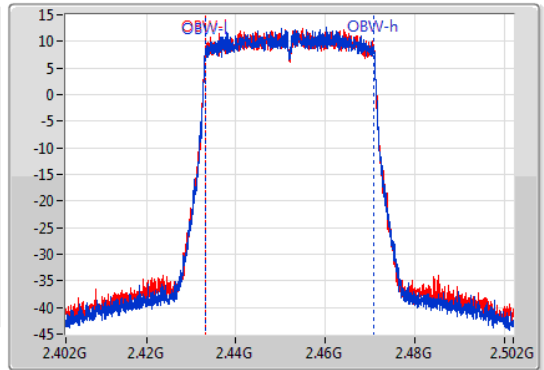
2452MHz

20/01/2020

CF
2.452GHz
Span
100MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



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



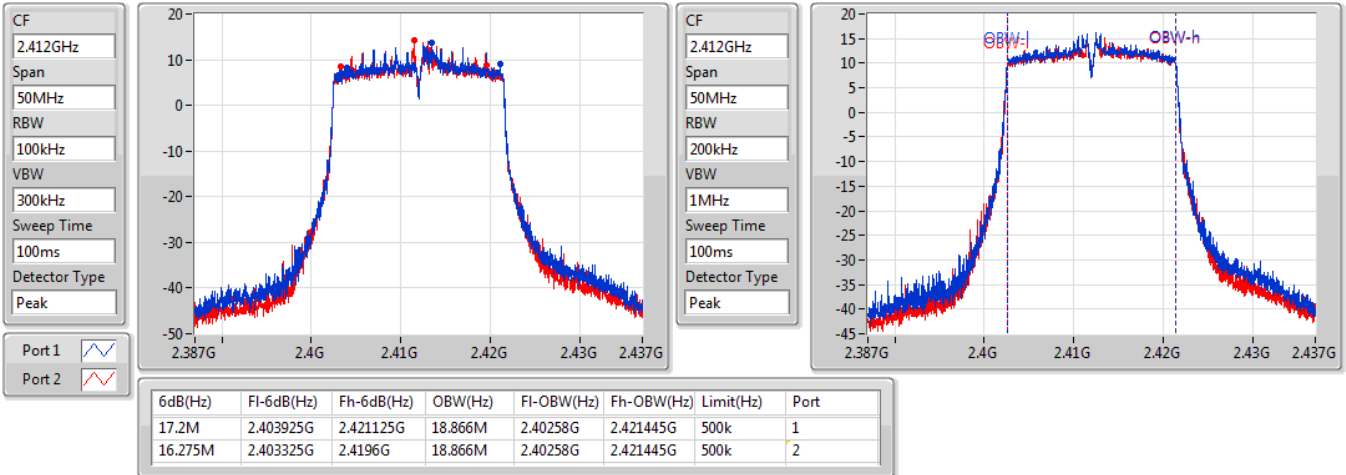
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.85M	2.4331G	2.47095G	37.781M	2.433109G	2.470891G	500k	1
37.65M	2.4333G	2.47095G	37.781M	2.433109G	2.470891G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

2412MHz

21/01/2020

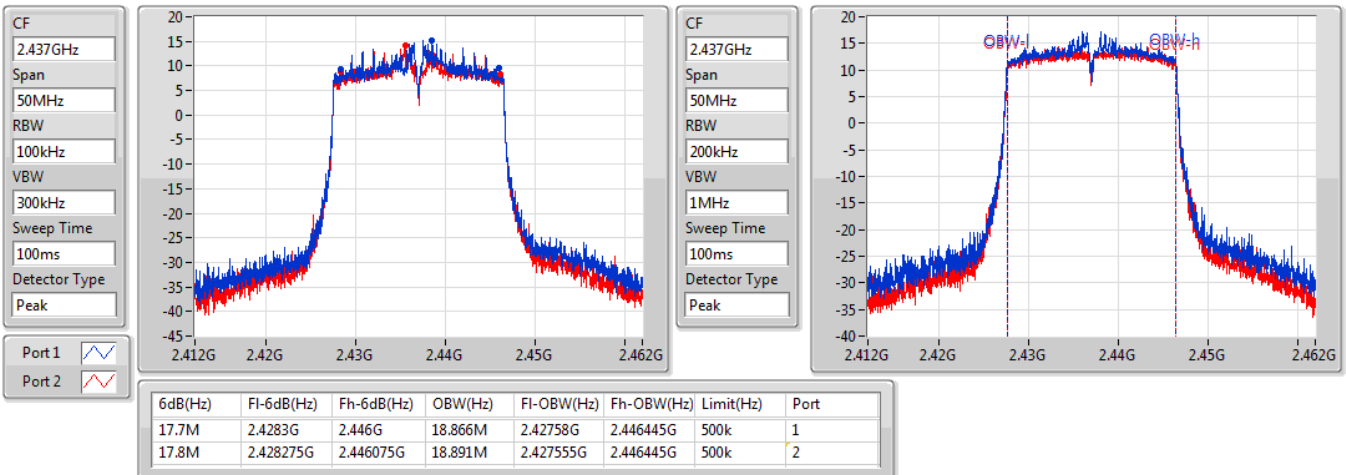


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

21/01/2020

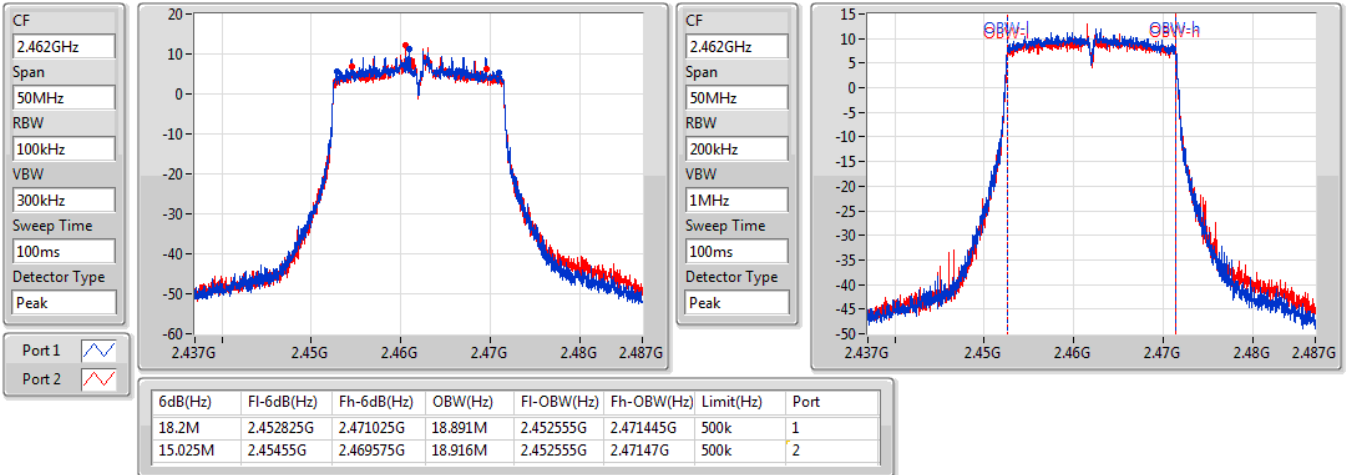


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

EBW

2462MHz

21/01/2020

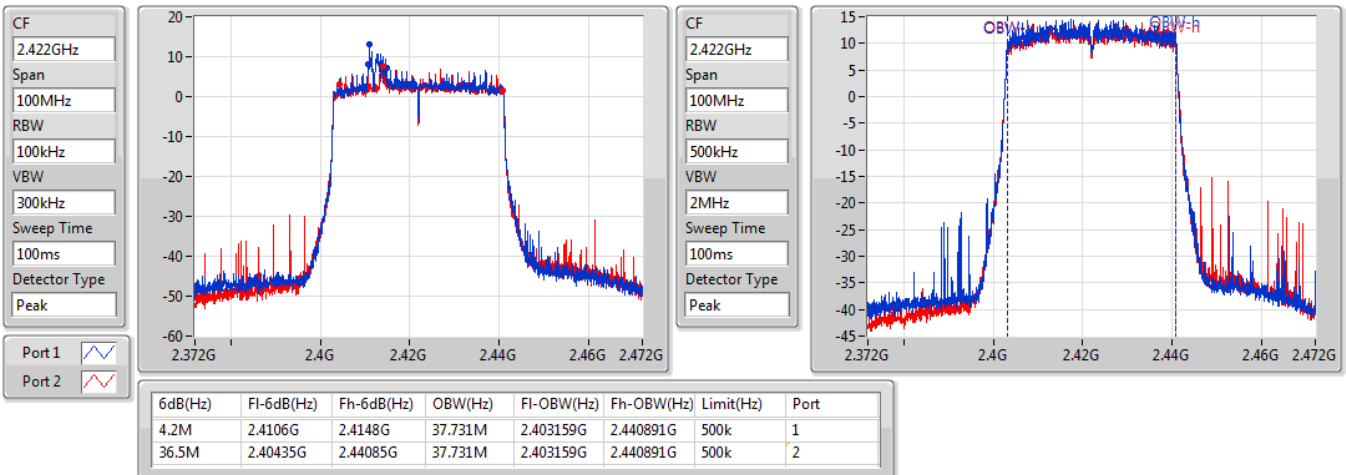


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2422MHz

21/01/2020

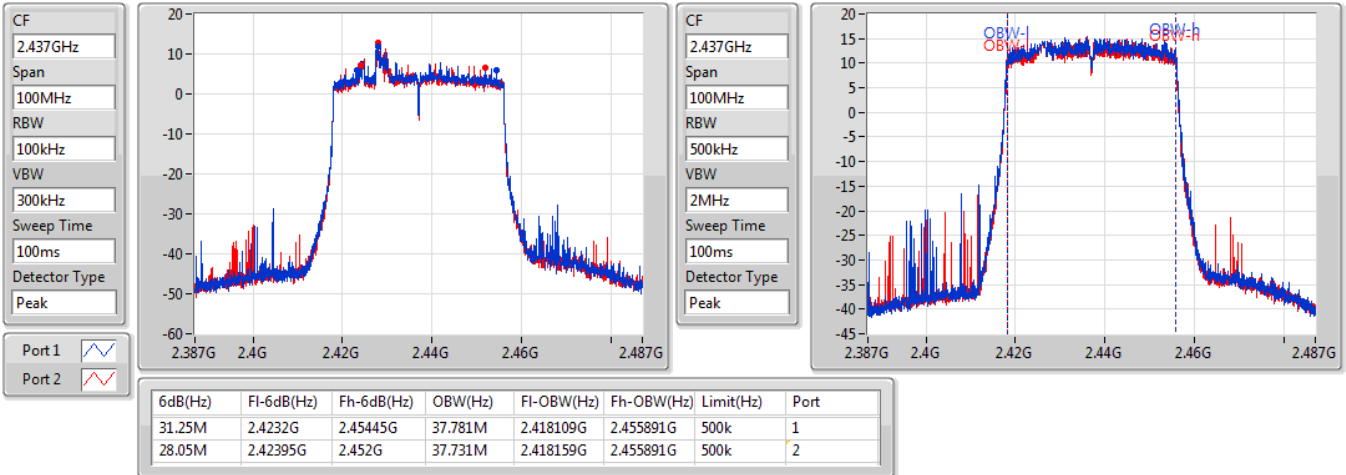


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

21/01/2020

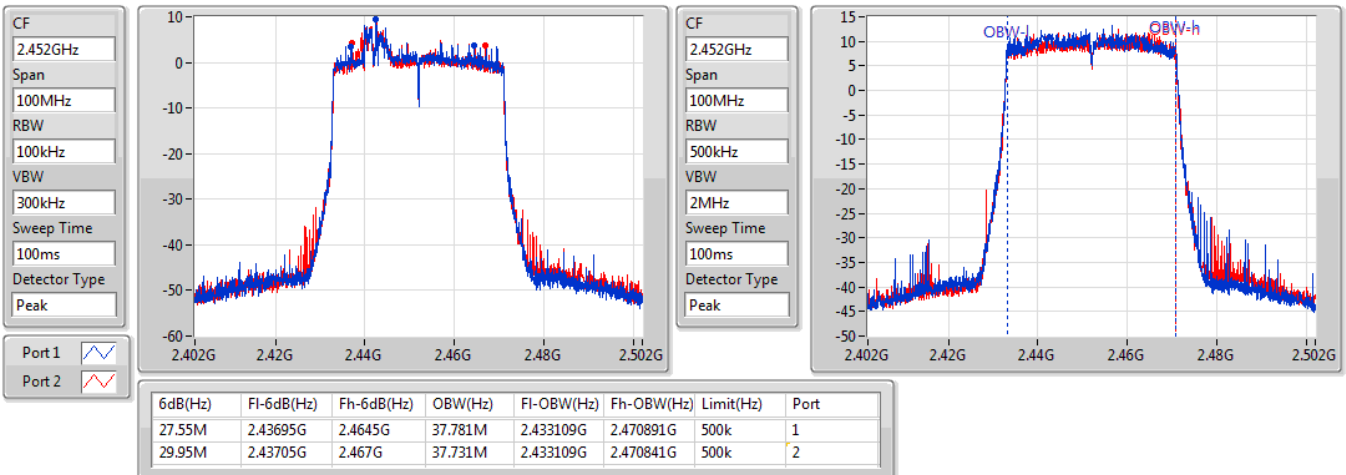


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2452MHz

21/01/2020





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.54	0.89950
802.11g_Nss1,(6Mbps)_2TX	28.99	0.79250
802.11ax HEW20_Nss1,(MCS0)_2TX	29.20	0.83176
802.11ax HEW40_Nss1,(MCS0)_2TX	25.89	0.38815
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.43	0.55335
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.98	0.31477



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.54	25.04	25.06	28.06	30.00
2417MHz	Pass	3.54	25.53	25.50	28.53	30.00
2437MHz	Pass	3.54	26.70	26.36	29.54	30.00
2462MHz	Pass	3.54	26.63	26.39	29.52	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.54	22.96	23.05	26.02	30.00
2417MHz	Pass	3.54	23.96	23.99	26.99	30.00
2437MHz	Pass	3.54	26.10	25.86	28.99	30.00
2462MHz	Pass	3.54	23.69	23.72	26.72	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.54	22.10	22.15	25.14	30.00
2417MHz	Pass	3.54	24.06	24.11	27.10	30.00
2437MHz	Pass	3.54	26.27	26.10	29.20	30.00
2457MHz	Pass	3.54	23.85	23.77	26.82	30.00
2462MHz	Pass	3.54	23.37	22.98	26.19	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.54	18.88	18.69	21.80	30.00
2427MHz	Pass	3.54	19.78	19.73	22.77	30.00
2437MHz	Pass	3.54	23.00	22.76	25.89	30.00
2447MHz	Pass	3.54	19.47	19.38	22.44	30.00
2452MHz	Pass	3.54	19.34	19.42	22.39	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.98	23.88	23.25	26.59	30.00
2437MHz	Pass	4.98	24.69	24.13	27.43	30.00
2457MHz	Pass	4.98	22.97	22.37	25.69	30.00
2462MHz	Pass	4.98	20.95	20.49	23.74	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.98	21.23	20.67	23.97	30.00
2437MHz	Pass	4.98	22.24	21.68	24.98	30.00
2447MHz	Pass	4.98	19.15	18.61	21.90	30.00
2452MHz	Pass	4.98	19.05	18.78	21.93	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	5.46
802.11g_Nss1,(6Mbps)_2TX	0.61
802.11ax HEW20_Nss1,(MCS0)_2TX	1.03
802.11ax HEW40_Nss1,(MCS0)_2TX	-5.29
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	2.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-2.12

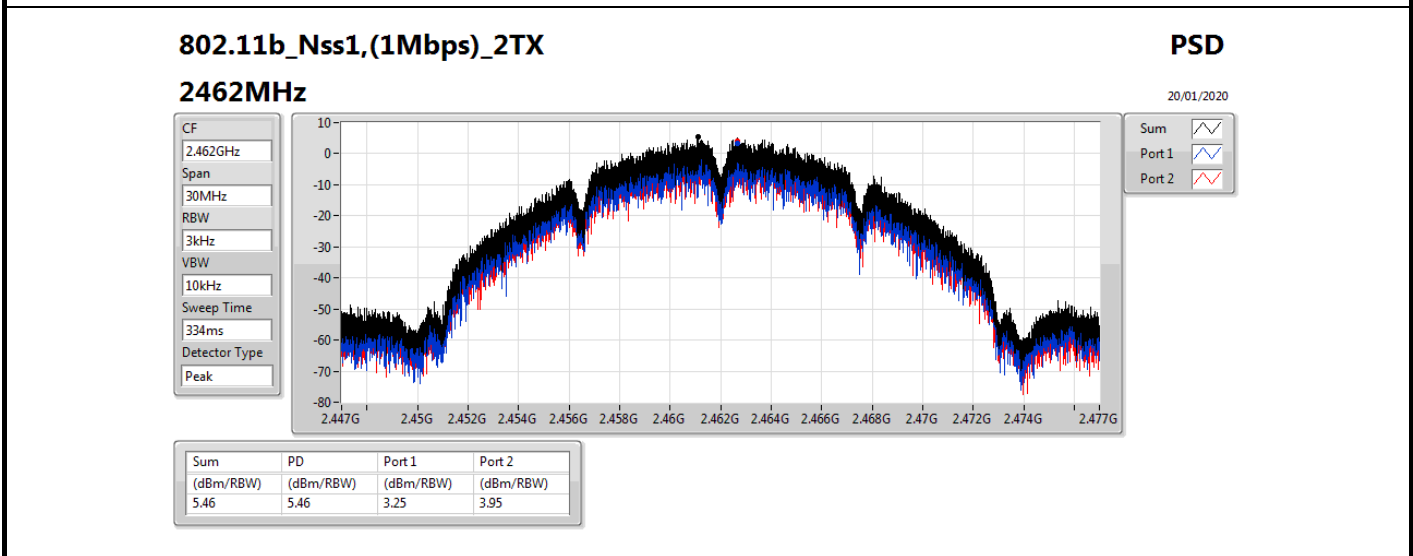
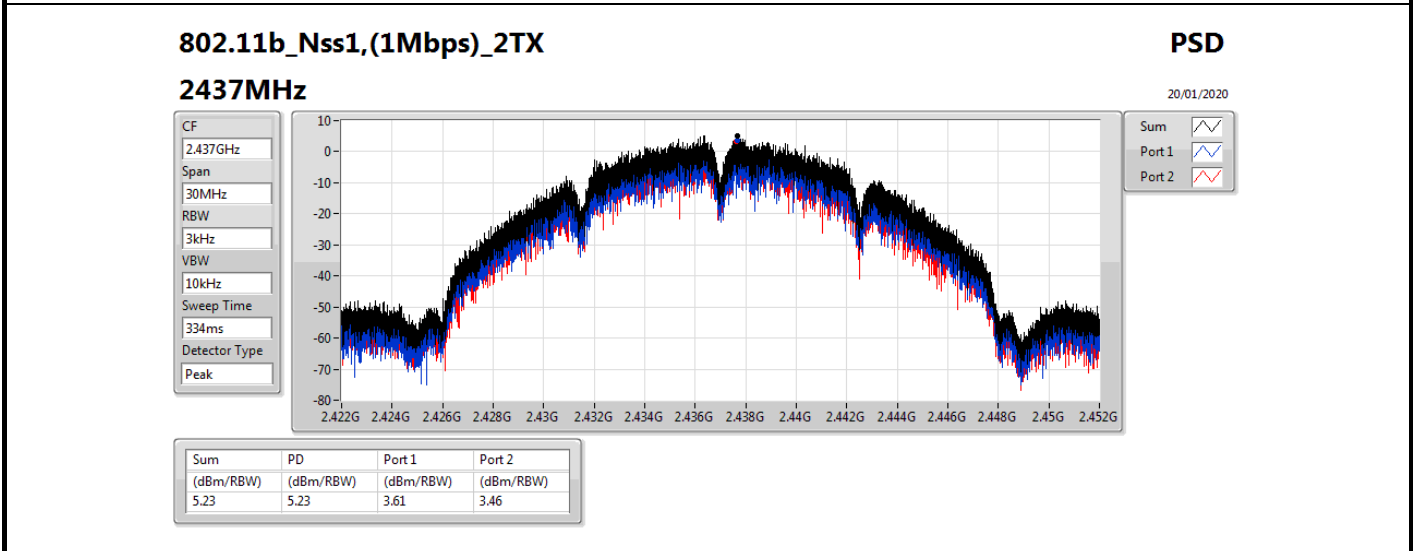
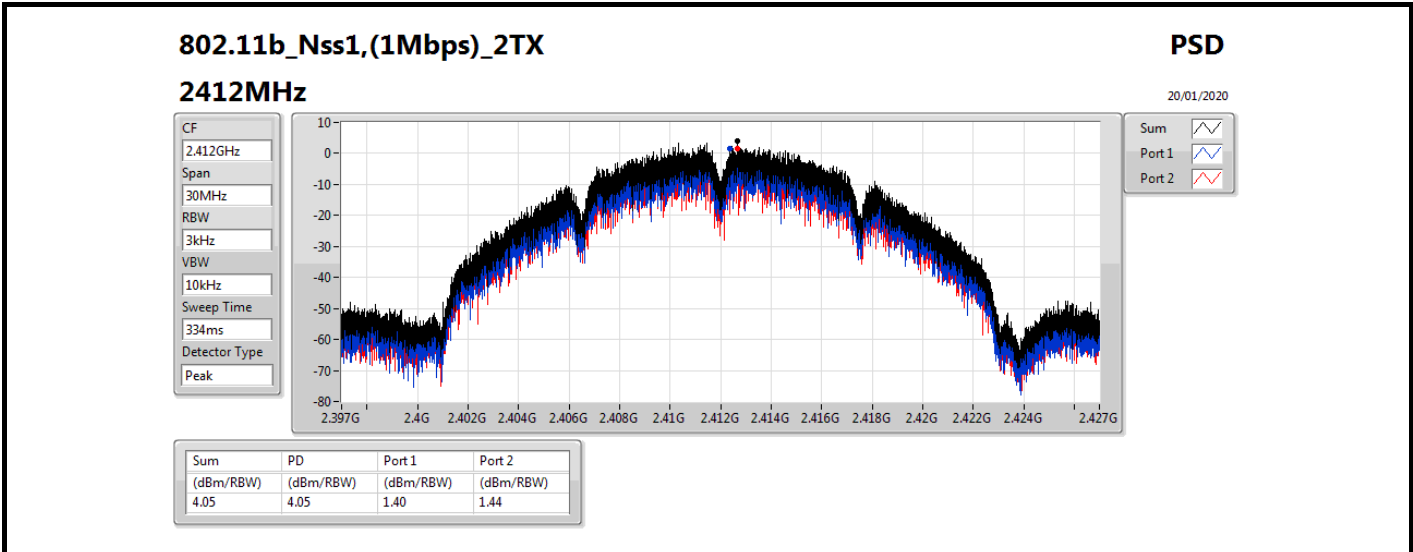
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

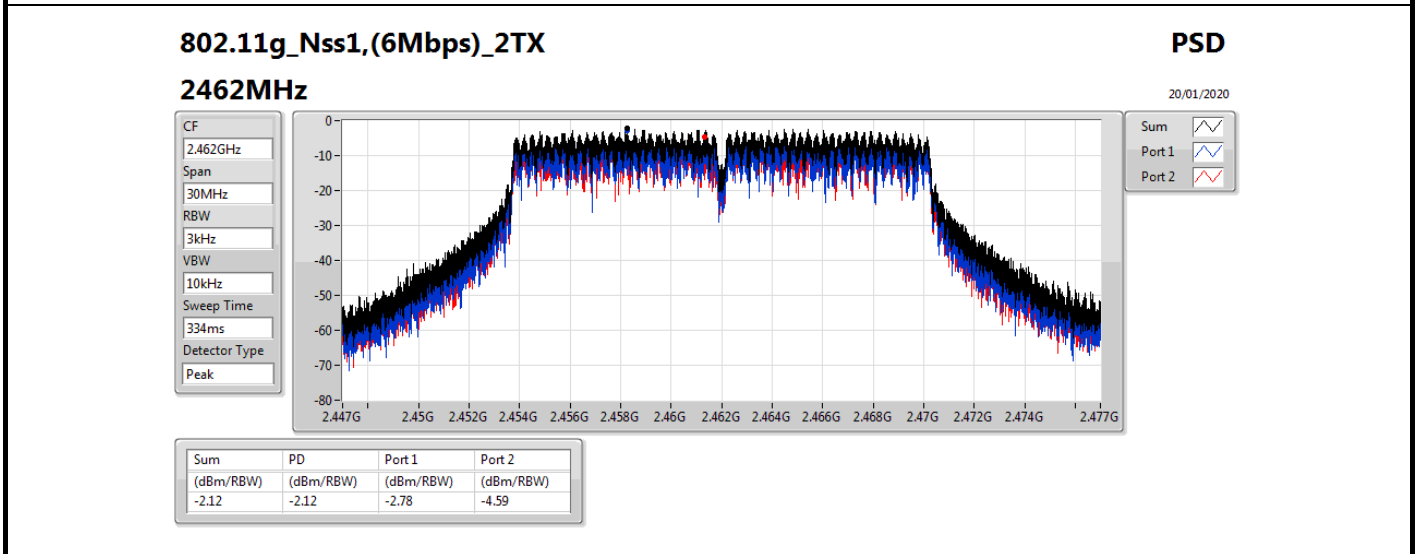
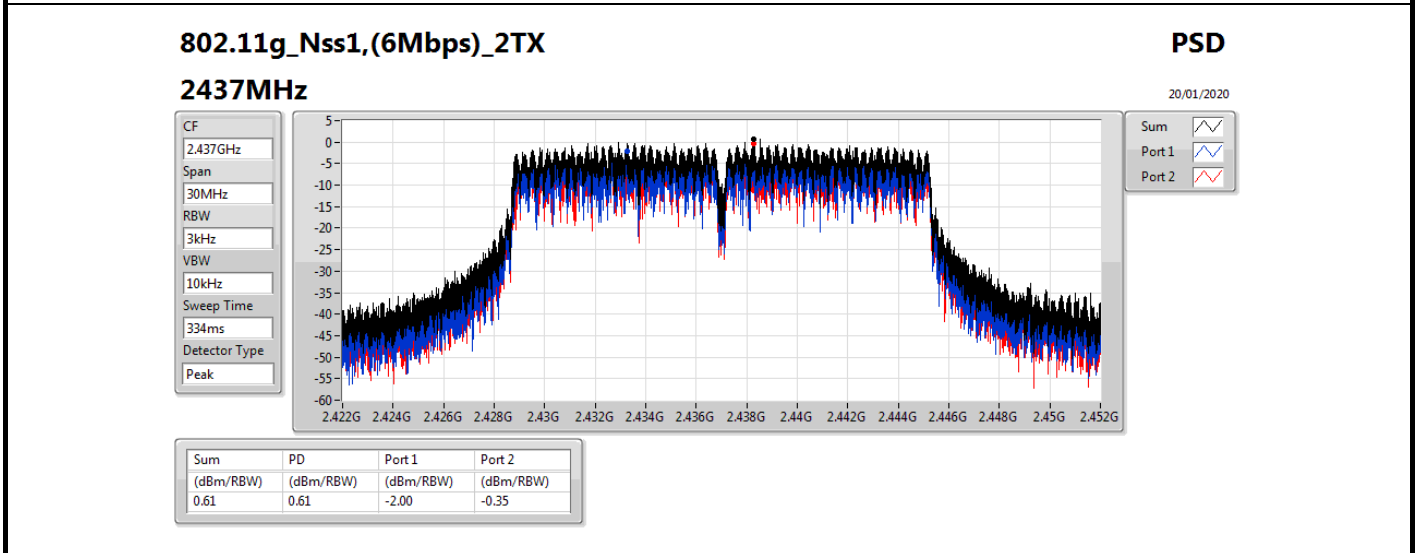
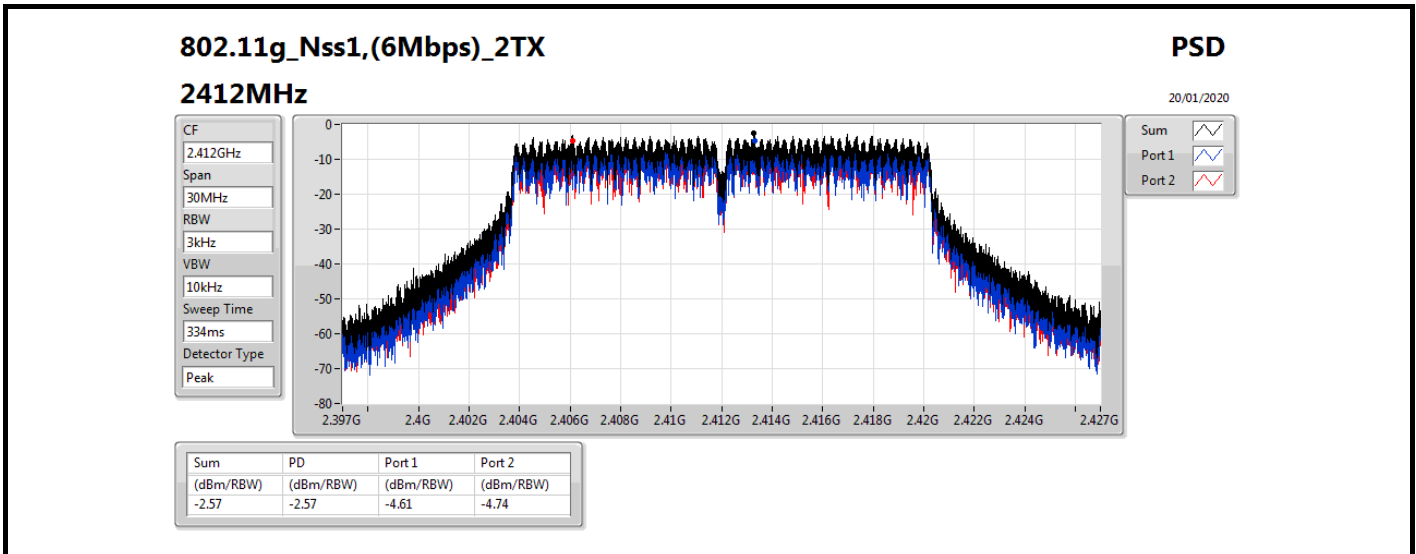
Result

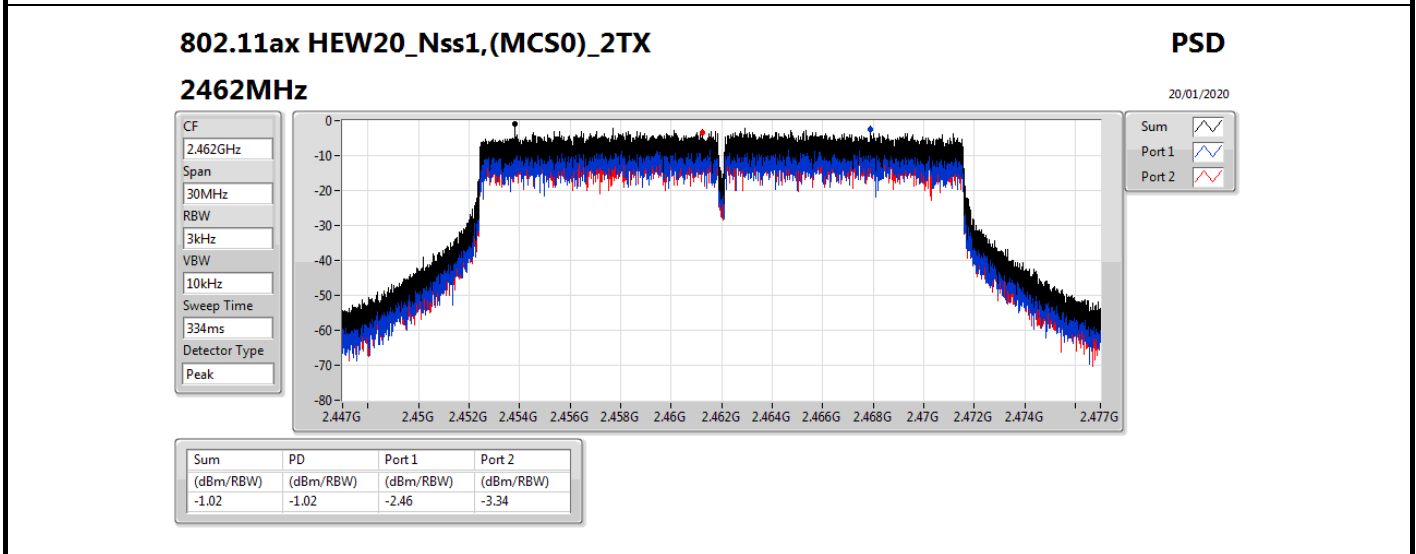
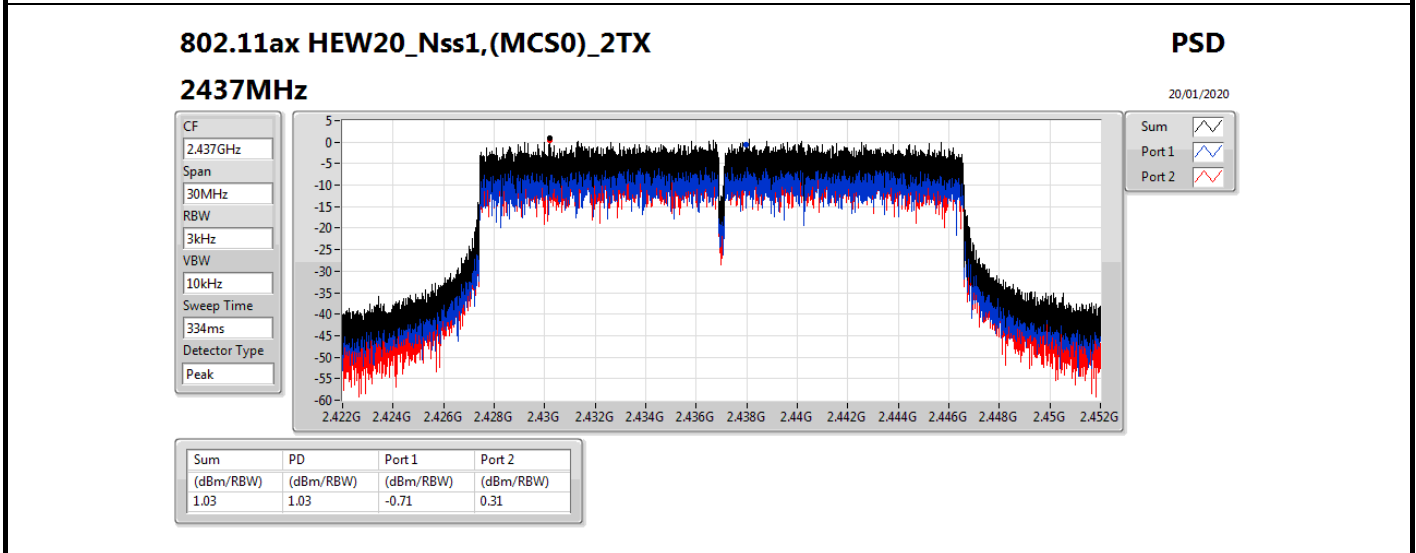
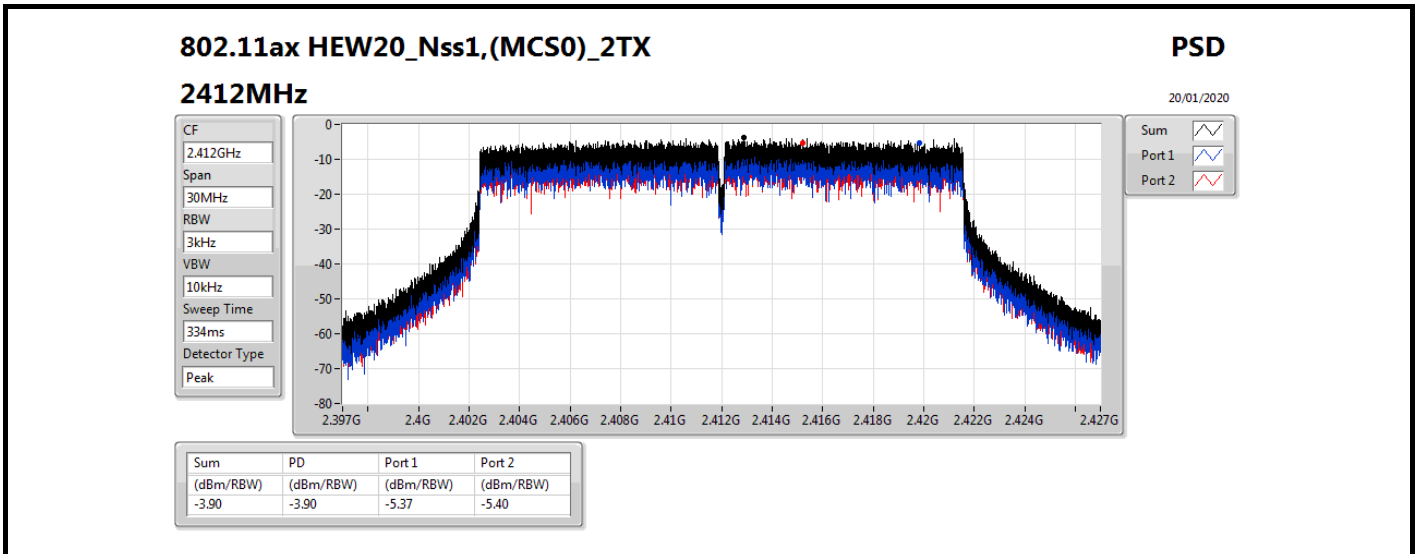
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.98	1.40	1.44	4.05	8.00
2437MHz	Pass	4.98	3.61	3.46	5.23	8.00
2462MHz	Pass	4.98	3.25	3.95	5.46	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.98	-4.61	-4.74	-2.57	8.00
2437MHz	Pass	4.98	-2.00	-0.35	0.61	8.00
2462MHz	Pass	4.98	-2.78	-4.59	-2.12	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.98	-5.37	-5.40	-3.90	8.00
2437MHz	Pass	4.98	-0.71	0.31	1.03	8.00
2462MHz	Pass	4.98	-2.46	-3.34	-1.02	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.98	-9.92	-9.67	-8.70	8.00
2437MHz	Pass	4.98	-6.28	-6.99	-5.29	8.00
2452MHz	Pass	4.98	-9.51	-10.72	-8.49	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.98	-1.08	-3.40	-0.09	8.00
2437MHz	Pass	4.98	0.97	1.36	2.00	8.00
2462MHz	Pass	4.98	-3.58	-2.77	-2.17	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.98	-2.39	-7.89	-2.12	8.00
2437MHz	Pass	4.98	-3.16	-4.28	-2.88	8.00
2452MHz	Pass	4.98	-5.87	-7.90	-5.52	8.00

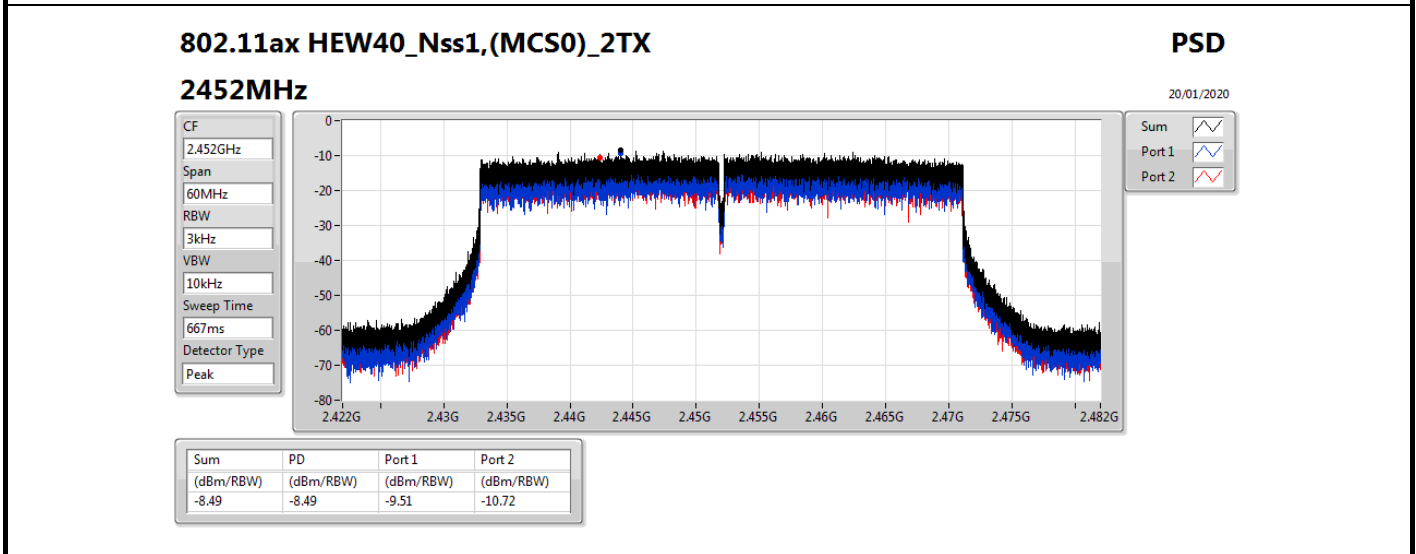
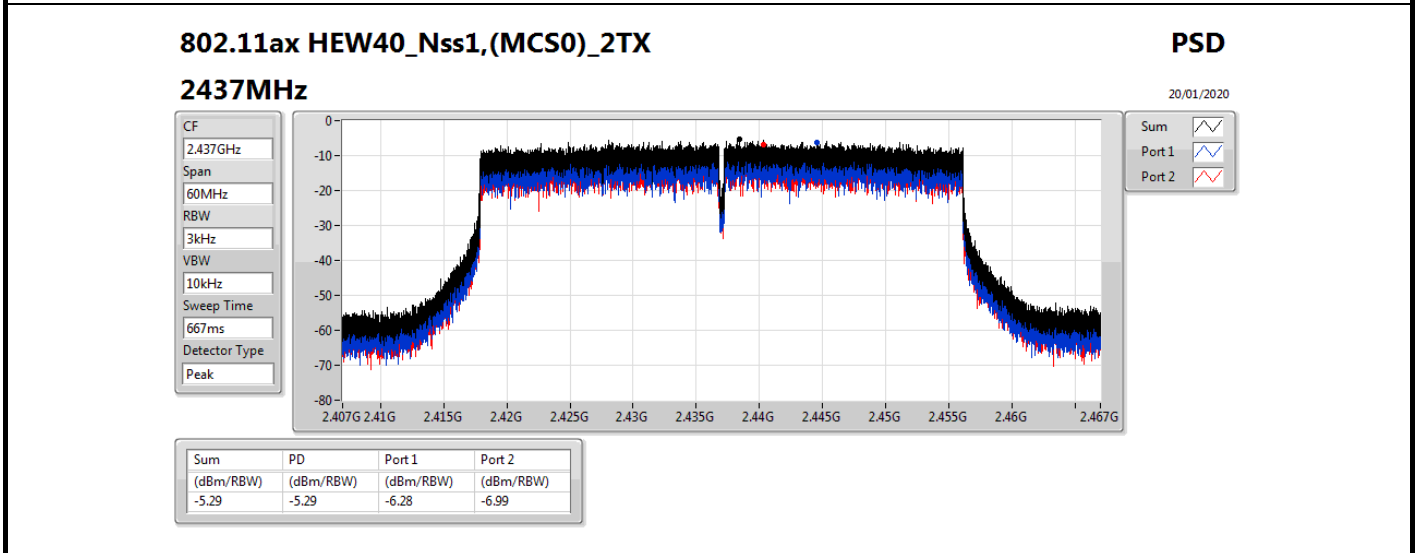
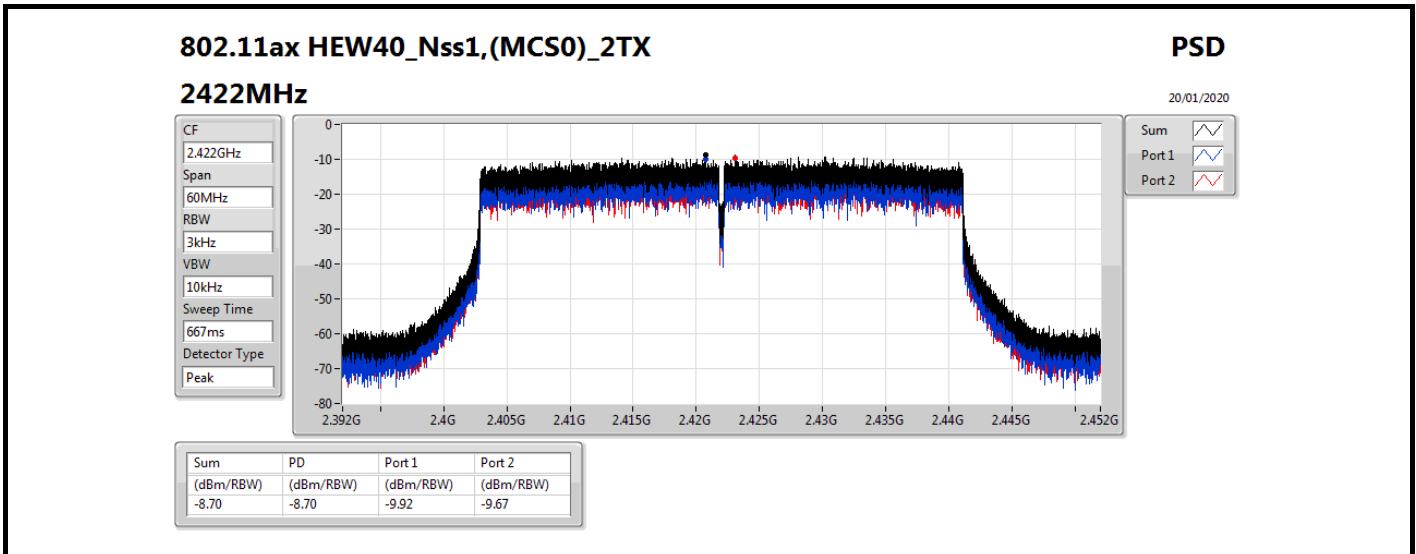
DG = Directional Gain; RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

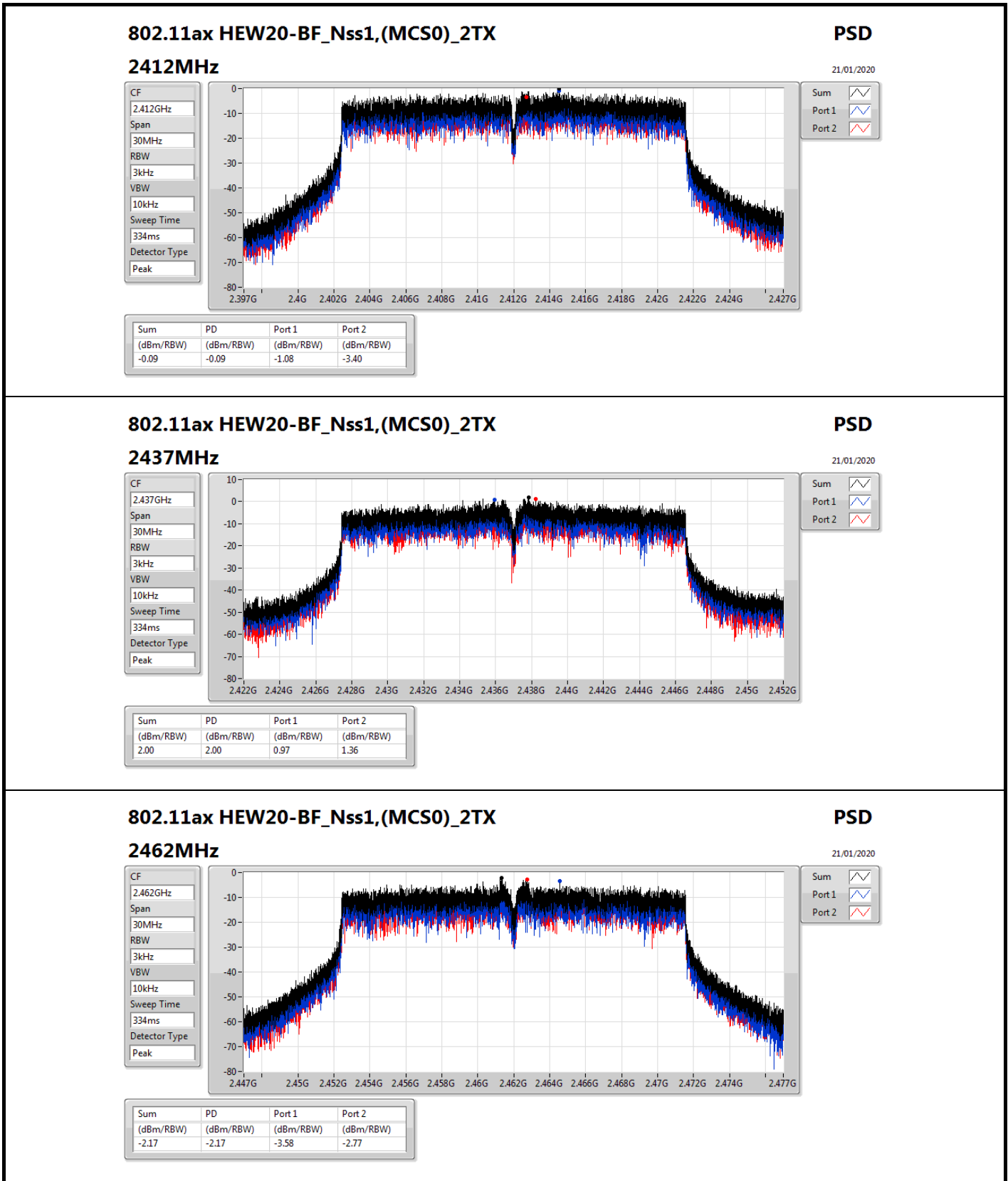
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;











802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz

PSD

21/01/2020

CF
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

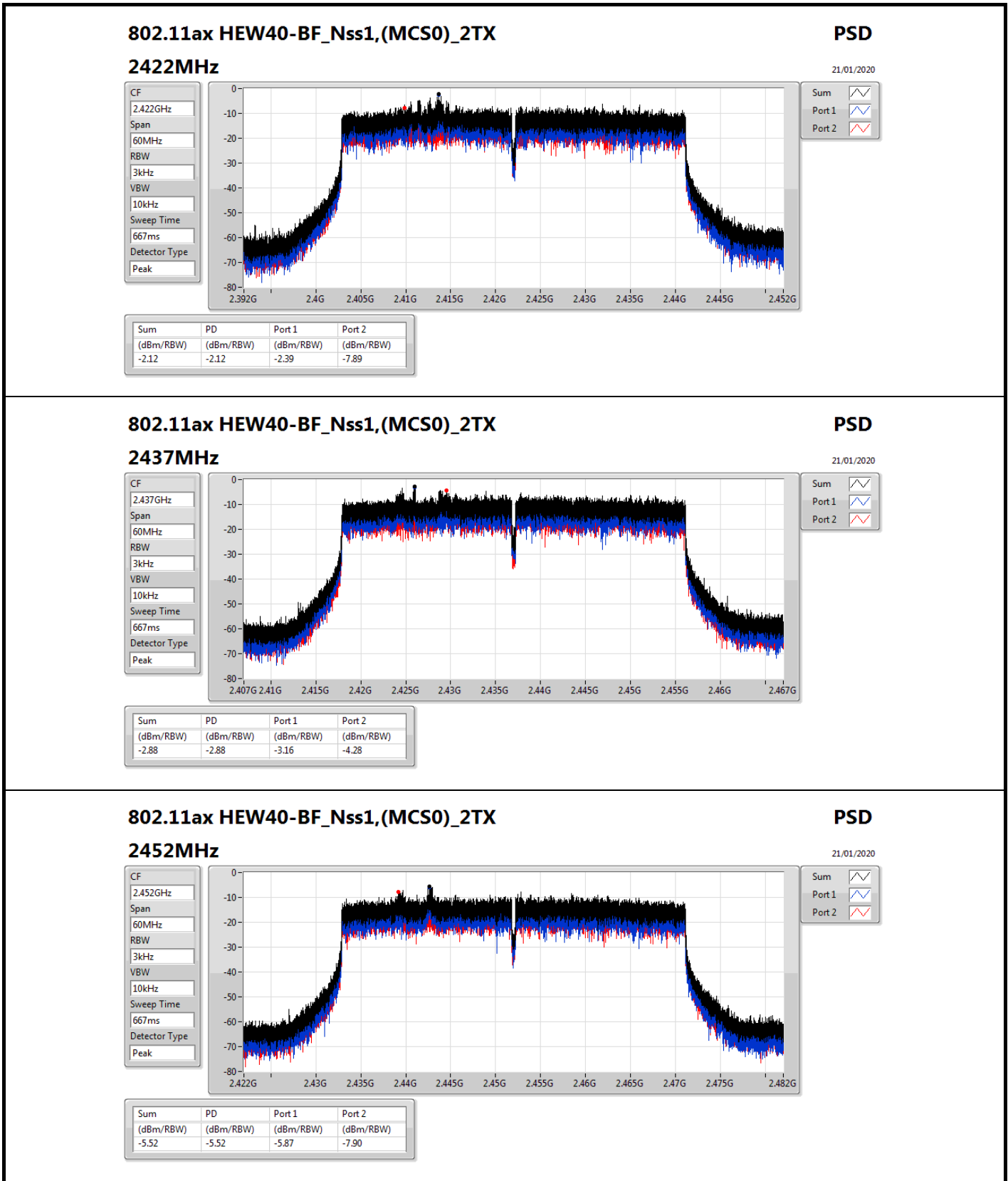
Detector Type
Peak



Sum 

Port 1 

Port 2 





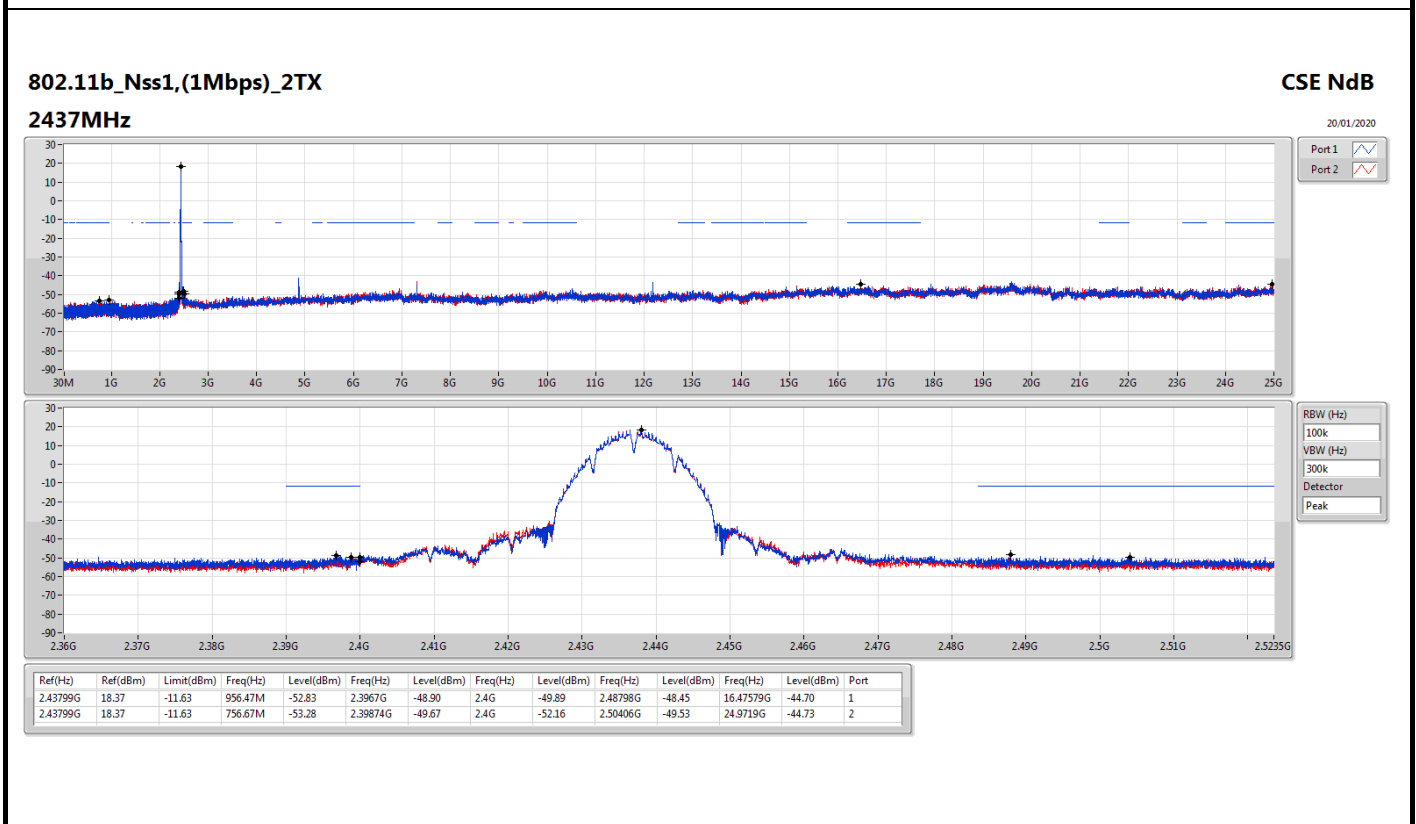
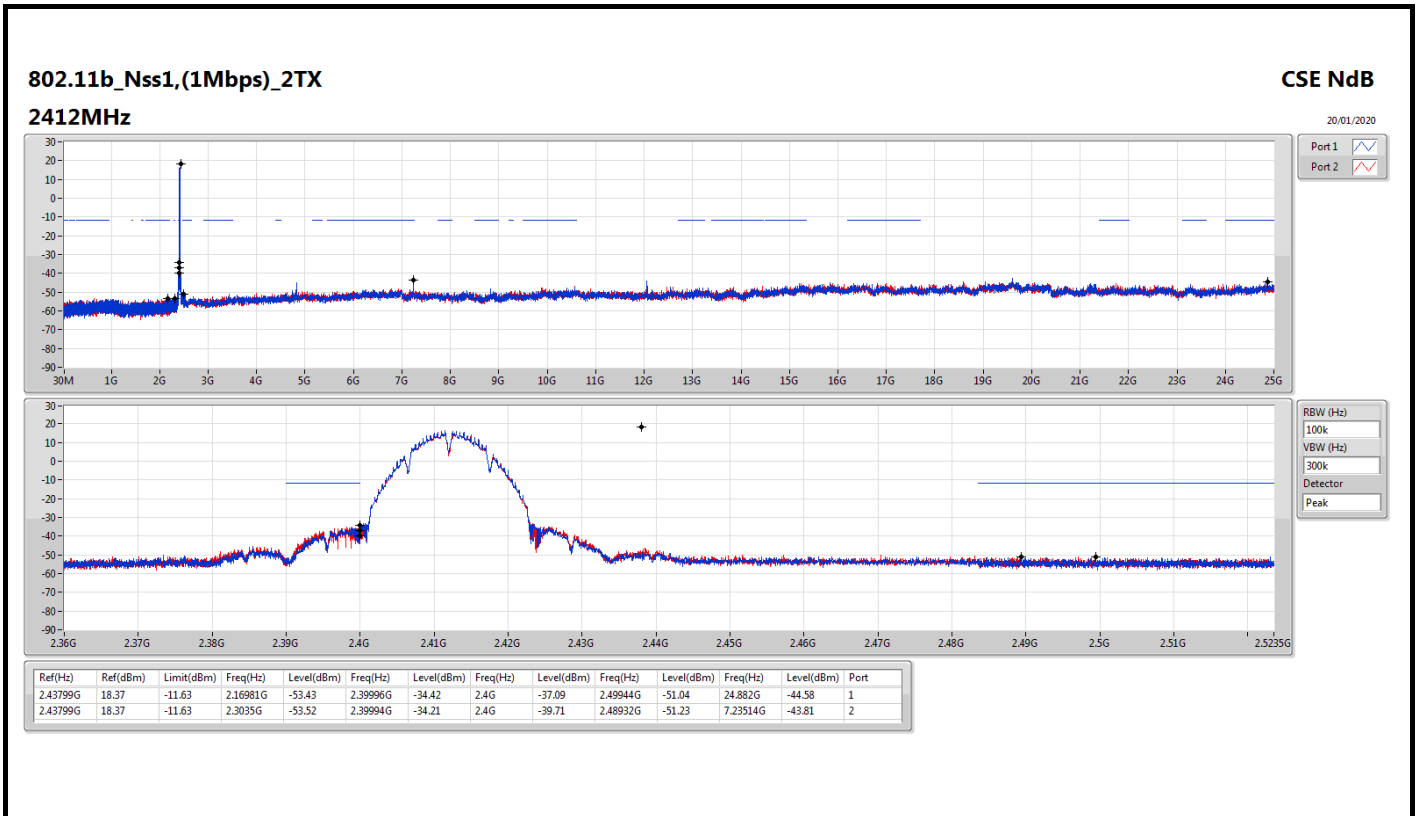
Summary

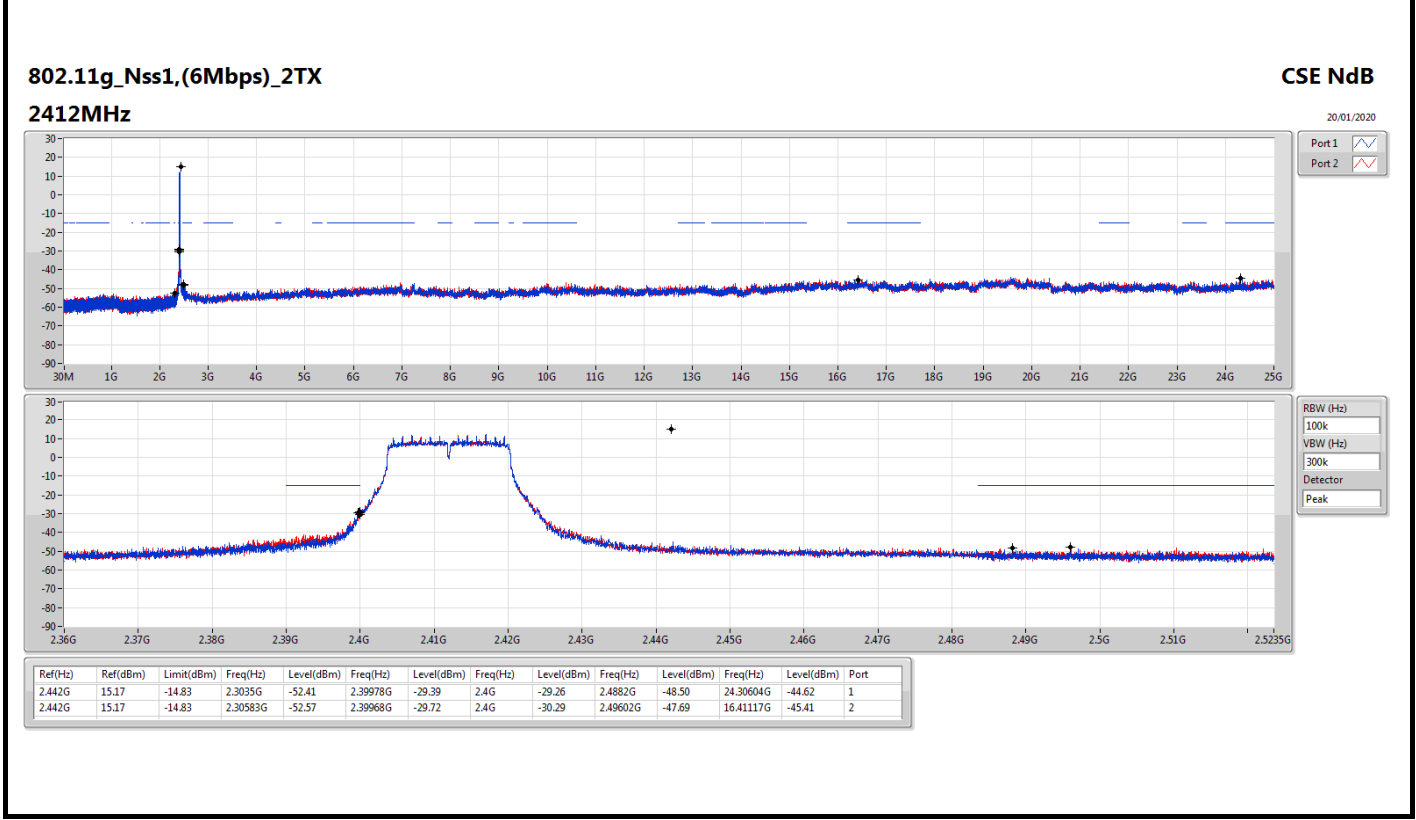
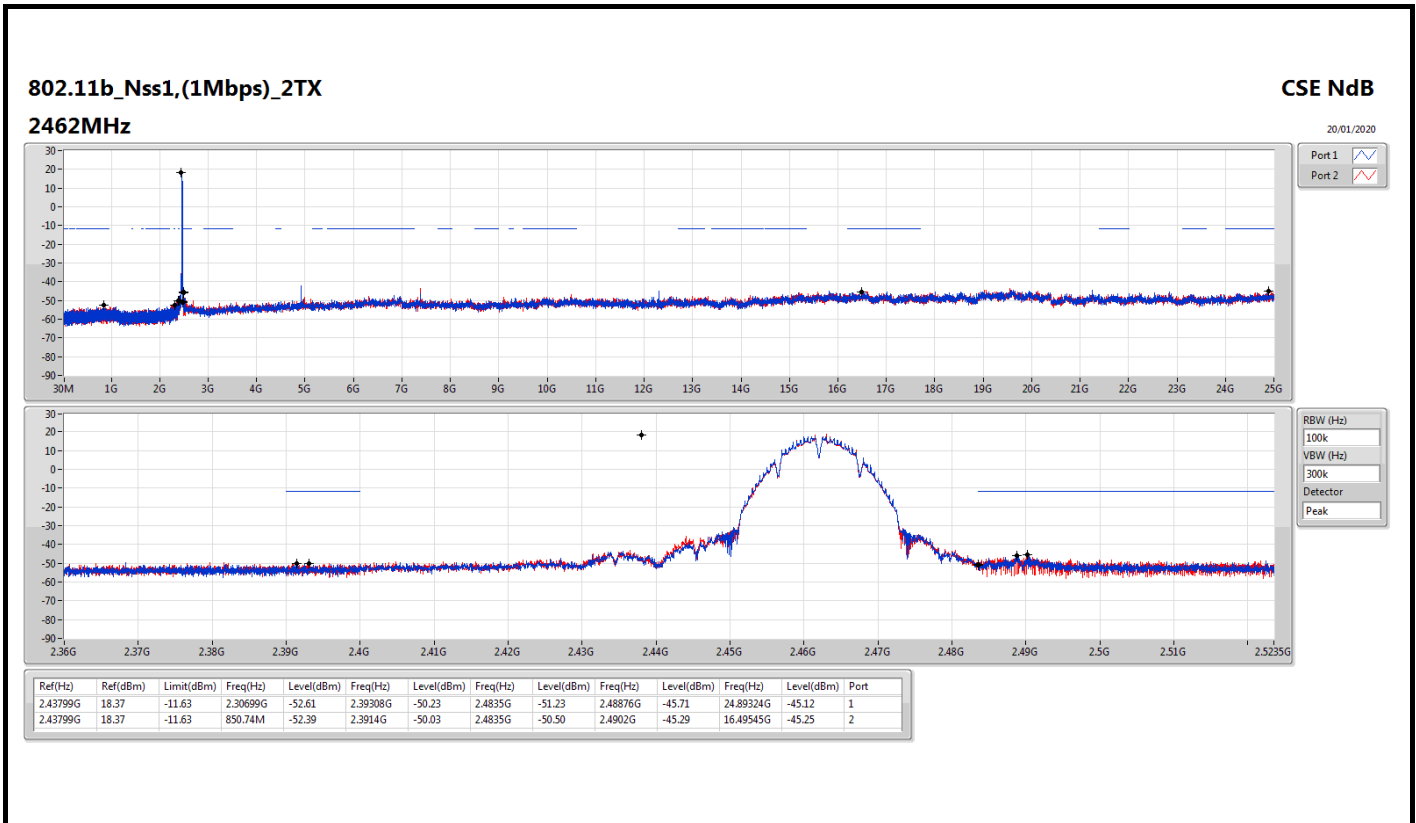
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43799G	18.37	-11.63	2.3035G	-53.52	2.39994G	-34.21	2.4G	-39.71	2.48932G	-51.23	7.23514G	-43.81	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.442G	15.17	-14.83	2.3035G	-52.41	2.39978G	-29.39	2.4G	-29.26	2.4882G	-48.50	24.30604G	-44.62	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	15.23	-14.77	926.18M	-52.10	2.3998G	-29.01	2.4G	-29.85	2.4857G	-49.42	24.96909G	-45.06	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43198G	9.17	-20.83	2.18346G	-52.56	2.39972G	-36.97	2.4G	-34.85	2.48722G	-49.36	24.73357G	-44.49	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43749G	15.43	-14.57	2.30088G	-48.79	2.39988G	-27.18	2.4G	-31.13	2.48578G	-46.13	16.40555G	-40.28	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42647G	13.00	-17.00	1.63529G	-49.17	2.39724G	-29.55	2.4G	-32.12	2.49242G	-45.67	16.55266G	-41.20	2

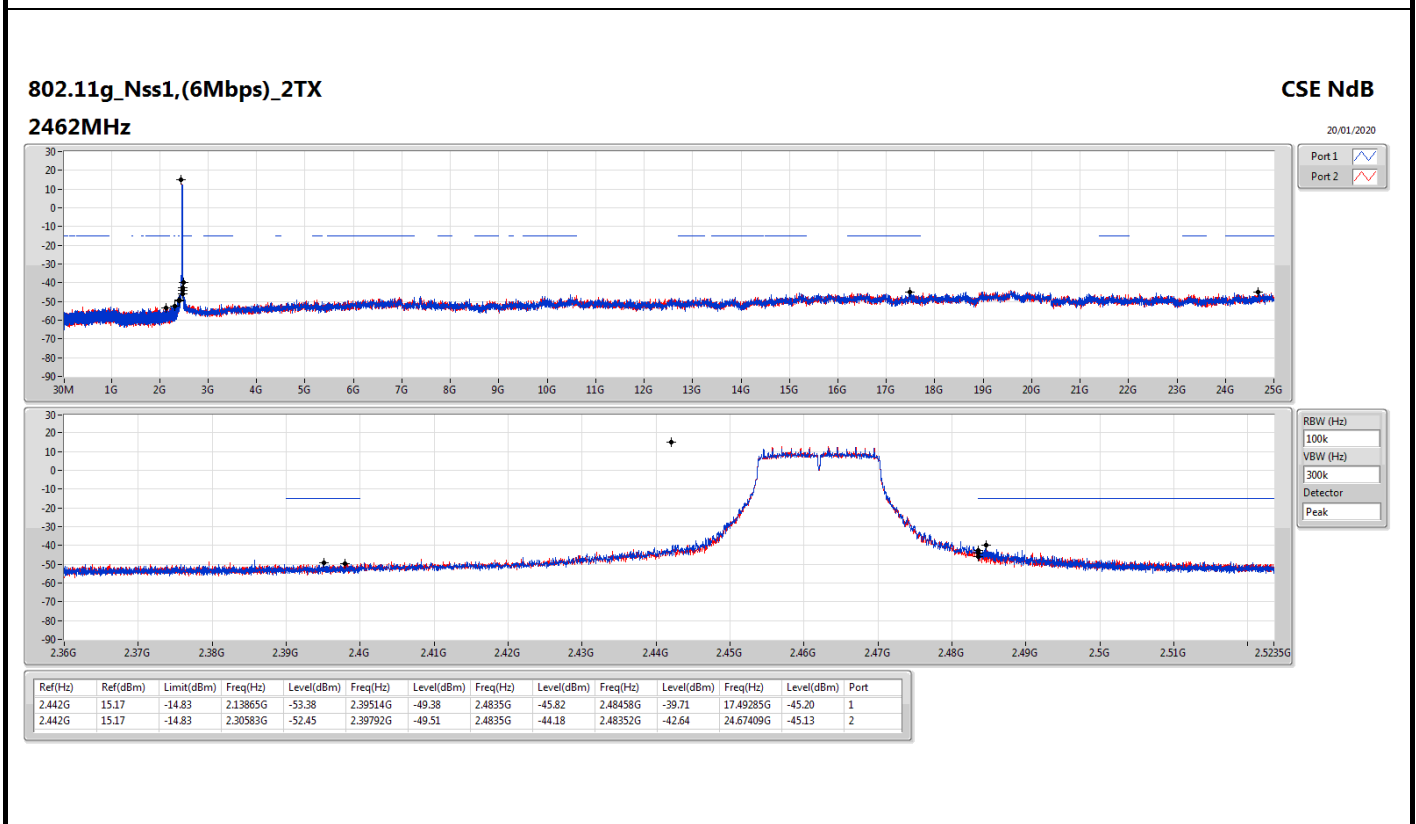
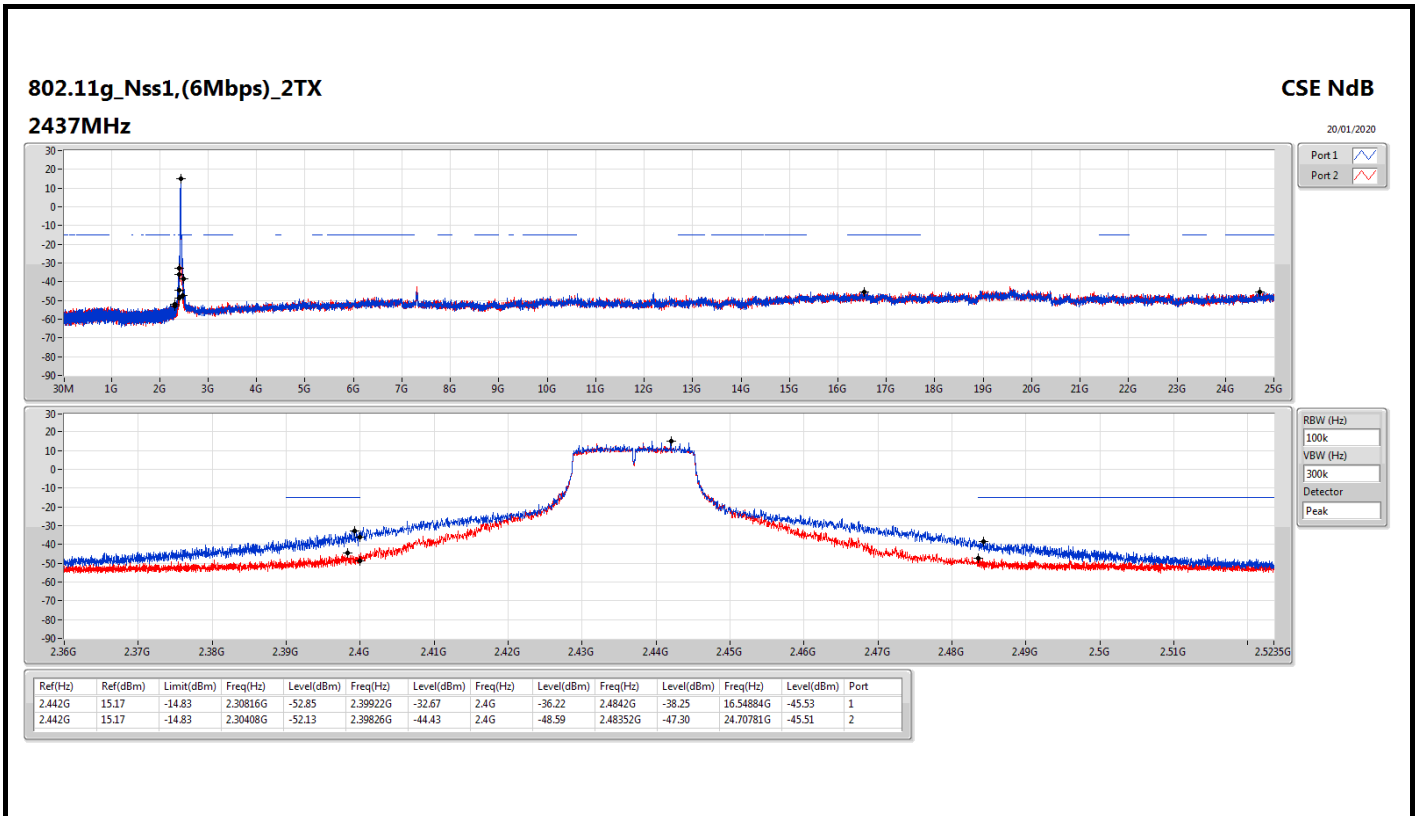


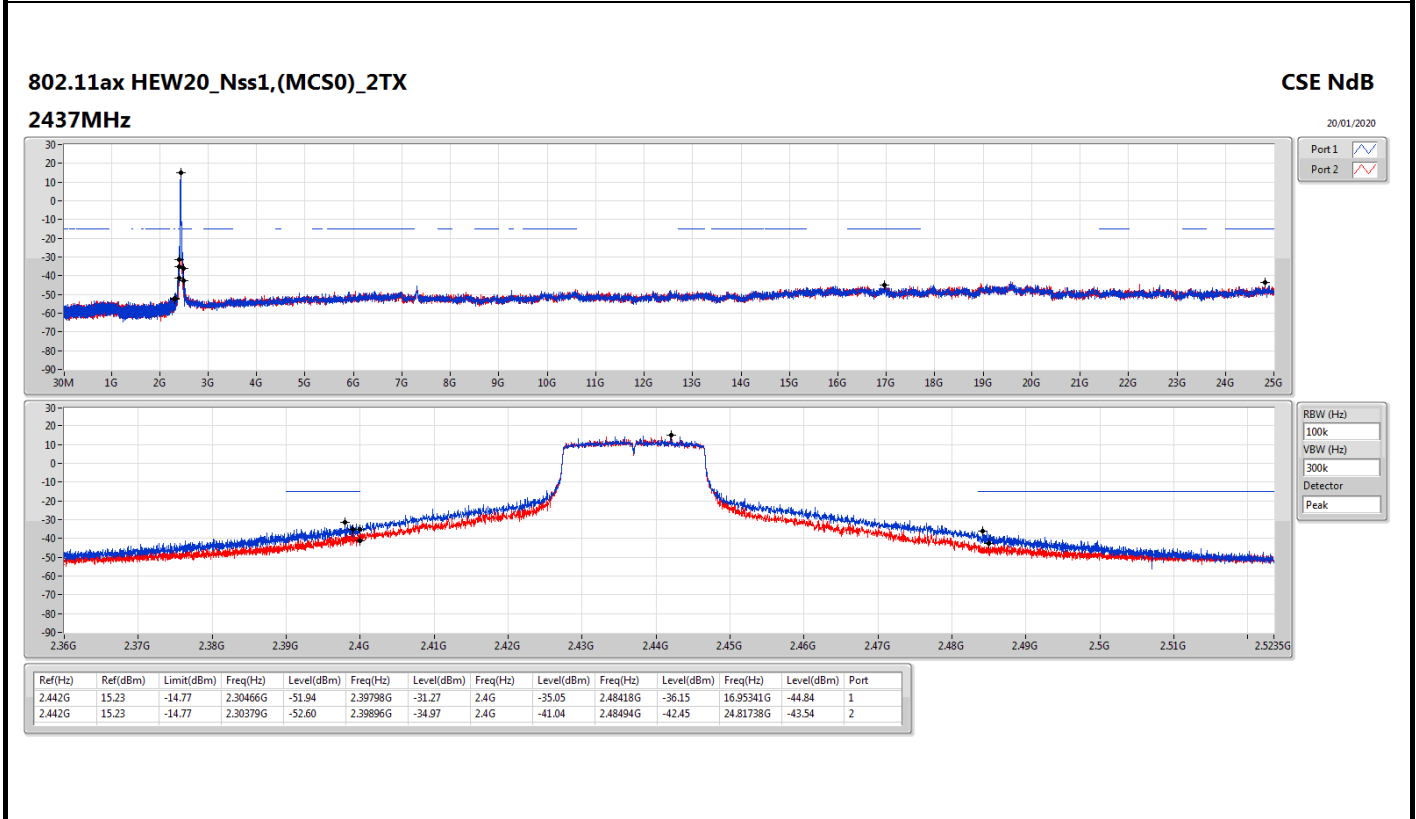
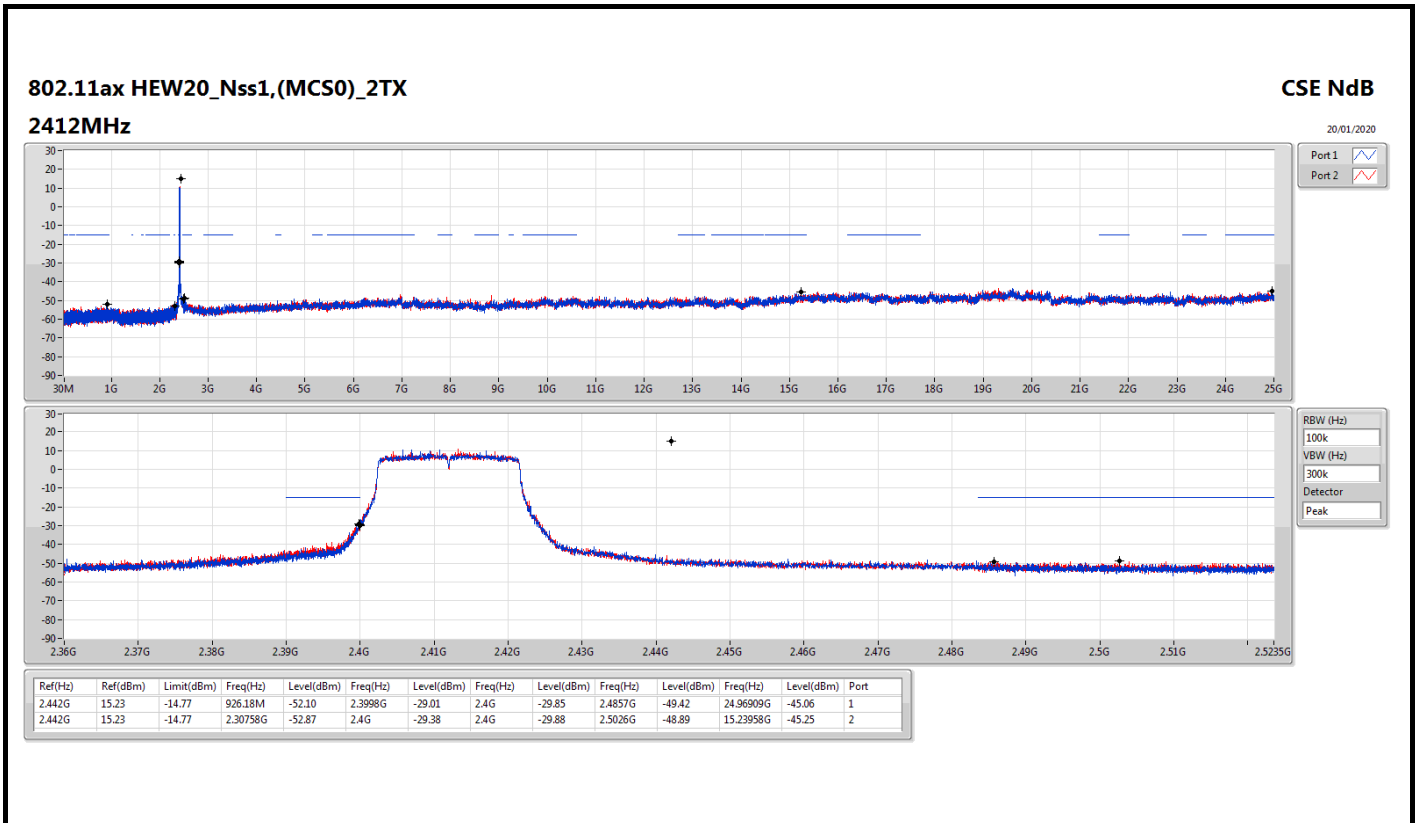
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	18.37	-11.63	2.16981G	-53.43	2.39996G	-34.42	2.4G	-37.09	2.49944G	-51.04	24.882G	-44.58	1
2412MHz	Pass	2.43799G	18.37	-11.63	2.3035G	-53.52	2.39994G	-34.21	2.4G	-39.71	2.48932G	-51.23	7.23514G	-43.81	2
2437MHz	Pass	2.43799G	18.37	-11.63	956.47M	-52.83	2.3967G	-48.90	2.4G	-49.89	2.48798G	-48.45	16.47579G	-44.70	1
2437MHz	Pass	2.43799G	18.37	-11.63	756.67M	-53.28	2.39874G	-49.67	2.4G	-52.16	2.50406G	-49.53	24.9719G	-44.73	2
2462MHz	Pass	2.43799G	18.37	-11.63	2.30699G	-52.61	2.39308G	-50.23	2.4835G	-51.23	2.48876G	-45.71	24.89324G	-45.12	1
2462MHz	Pass	2.43799G	18.37	-11.63	850.74M	-52.39	2.3914G	-50.03	2.4835G	-50.50	2.4902G	-45.29	16.49545G	-45.25	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	15.17	-14.83	2.3035G	-52.41	2.39978G	-29.39	2.4G	-29.26	2.4882G	-48.50	24.30604G	-44.62	1
2412MHz	Pass	2.442G	15.17	-14.83	2.30583G	-52.57	2.39968G	-29.72	2.4G	-30.29	2.49602G	-47.69	16.41117G	-45.41	2
2437MHz	Pass	2.442G	15.17	-14.83	2.30816G	-52.85	2.39922G	-32.67	2.4G	-36.22	2.4842G	-38.25	16.54884G	-45.53	1
2437MHz	Pass	2.442G	15.17	-14.83	2.30408G	-52.13	2.39826G	-44.43	2.4G	-48.59	2.48352G	-47.30	24.70781G	-45.51	2
2462MHz	Pass	2.442G	15.17	-14.83	2.13865G	-53.38	2.39514G	-49.38	2.4835G	-45.82	2.48458G	-39.71	17.49285G	-45.20	1
2462MHz	Pass	2.442G	15.17	-14.83	2.30583G	-52.45	2.39792G	-49.51	2.4835G	-44.18	2.48352G	-42.64	24.67409G	-45.13	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	15.23	-14.77	926.18M	-52.10	2.3998G	-29.01	2.4G	-29.85	2.4857G	-49.42	24.96909G	-45.06	1
2412MHz	Pass	2.442G	15.23	-14.77	2.30758G	-52.87	2.4G	-29.38	2.4G	-29.88	2.5026G	-48.89	15.23958G	-45.25	2
2437MHz	Pass	2.442G	15.23	-14.77	2.30466G	-51.94	2.39798G	-31.27	2.4G	-35.05	2.48418G	-36.15	16.95341G	-44.84	1
2437MHz	Pass	2.442G	15.23	-14.77	2.30379G	-52.60	2.39896G	-34.97	2.4G	-41.04	2.48494G	-42.45	24.81738G	-43.54	2
2462MHz	Pass	2.442G	15.23	-14.77	2.30088G	-52.13	2.3981G	-49.82	2.4835G	-42.38	2.48408G	-41.99	16.60503G	-45.04	1
2462MHz	Pass	2.442G	15.23	-14.77	2.30408G	-52.16	2.3934G	-49.86	2.4835G	-44.31	2.4842G	-43.52	24.71904G	-45.18	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	9.17	-20.83	2.10302G	-53.03	2.39992G	-35.00	2.4G	-35.54	2.50138G	-50.45	17.53706G	-45.26	1
2422MHz	Pass	2.43198G	9.17	-20.83	2.18346G	-52.56	2.39972G	-36.97	2.4G	-34.85	2.48722G	-49.36	24.73357G	-44.49	2
2437MHz	Pass	2.43198G	9.17	-20.83	2.30168G	-51.82	2.39816G	-41.36	2.4G	-41.52	2.48378G	-43.38	16.59473G	-45.09	1
2437MHz	Pass	2.43198G	9.17	-20.83	2.30998G	-53.06	2.39988G	-40.41	2.4G	-40.29	2.48362G	-44.67	17.59596G	-44.98	2
2452MHz	Pass	2.43198G	9.17	-20.83	943.42M	-53.29	2.39628G	-49.97	2.4835G	-47.77	2.48442G	-42.79	16.92006G	-44.48	1
2452MHz	Pass	2.43198G	9.17	-20.83	712.42M	-53.47	2.39948G	-49.00	2.4835G	-46.81	2.48446G	-43.16	16.54144G	-44.67	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43749G	15.43	-14.57	862.68M	-48.20	2.39972G	-27.28	2.4G	-28.60	2.5075G	-46.27	24.89886G	-40.73	1
2412MHz	Pass	2.43749G	15.43	-14.57	2.30088G	-48.79	2.39988G	-27.18	2.4G	-31.13	2.48578G	-46.13	16.40555G	-40.28	2
2437MHz	Pass	2.43749G	15.43	-14.57	32.04M	-45.62	2.39832G	-37.43	2.4G	-42.36	2.48408G	-40.95	24.89605G	-40.21	1
2437MHz	Pass	2.43749G	15.43	-14.57	31.75M	-47.56	2.39998G	-41.17	2.4G	-44.39	2.4853G	-42.24	16.42802G	-41.36	2
2462MHz	Pass	2.43749G	15.43	-14.57	860.94M	-49.33	2.3932G	-47.63	2.4835G	-48.04	2.48508G	-45.70	24.2667G	-41.01	1
2462MHz	Pass	2.43749G	15.43	-14.57	954.14M	-49.20	2.3985G	-48.18	2.4835G	-44.64	2.48392G	-42.78	16.6556G	-40.72	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42647G	13.00	-17.00	563.28M	-48.58	2.39608G	-31.50	2.4G	-32.92	2.5301G	-46.14	21.62611G	-40.94	1
2422MHz	Pass	2.42647G	13.00	-17.00	1.63529G	-49.17	2.39724G	-29.55	2.4G	-32.12	2.49242G	-45.67	16.55266G	-41.20	2
2437MHz	Pass	2.42647G	13.00	-17.00	2.30483G	-48.20	2.39124G	-41.09	2.4G	-44.01	2.48694G	-42.11	16.519G	-40.49	1
2437MHz	Pass	2.42647G	13.00	-17.00	1.83595G	-48.54	2.39104G	-41.66	2.4G	-42.14	2.48526G	-43.41	16.48815G	-40.70	2
2452MHz	Pass	2.42647G	13.00	-17.00	669.2M	-49.36	2.39736G	-48.42	2.4835G	-44.49	2.48354G	-41.78	24.78685G	-40.45	1
2452MHz	Pass	2.42647G	13.00	-17.00	906.21M	-48.64	2.39352G	-48.21	2.4835G	-44.34	2.48446G	-41.13	24.92428G	-40.91	2



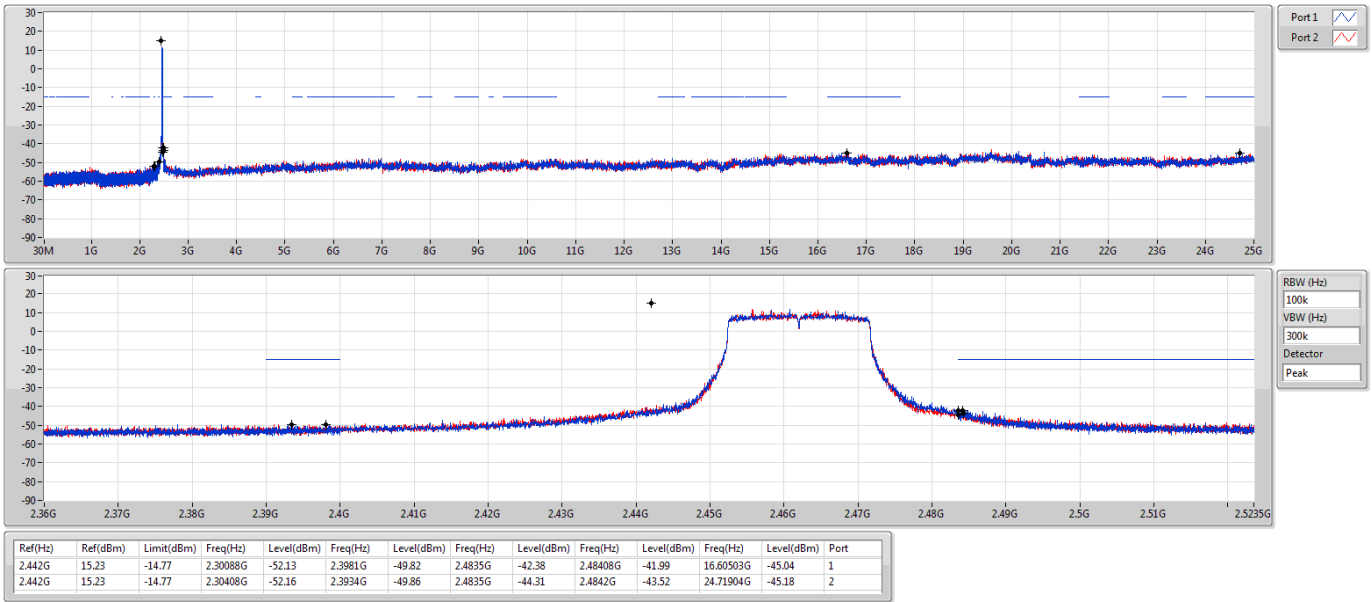






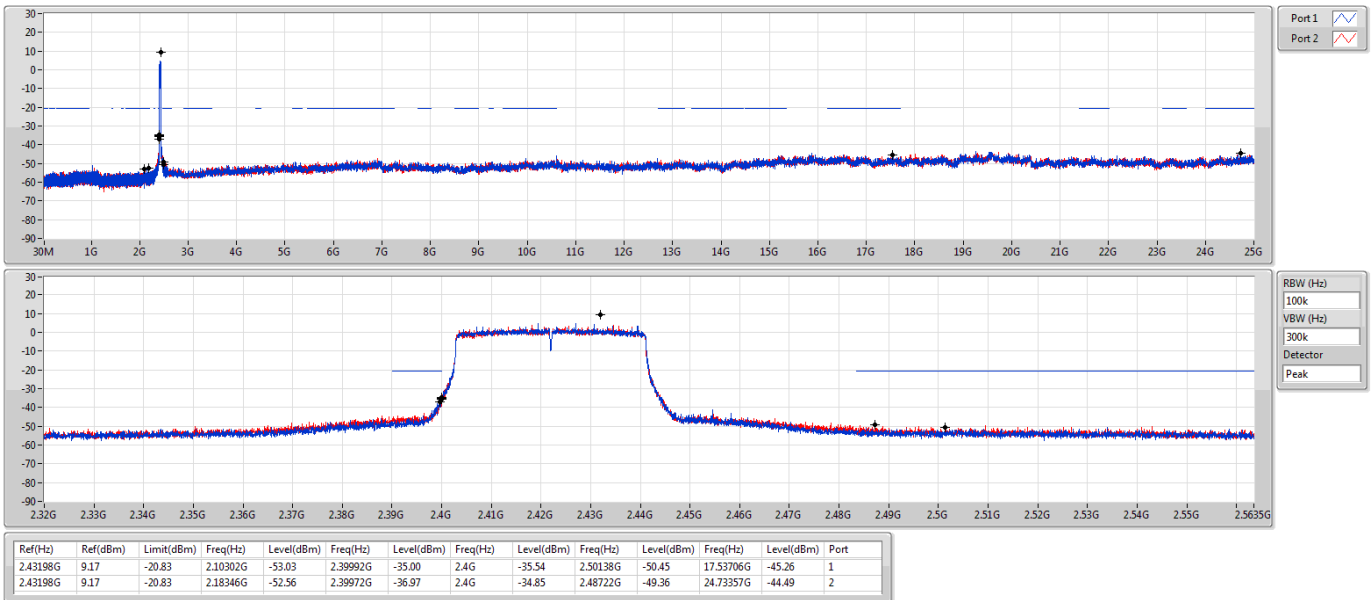
802.11ax HEW20_Nss1,(MCS0)_2TX
2462MHz

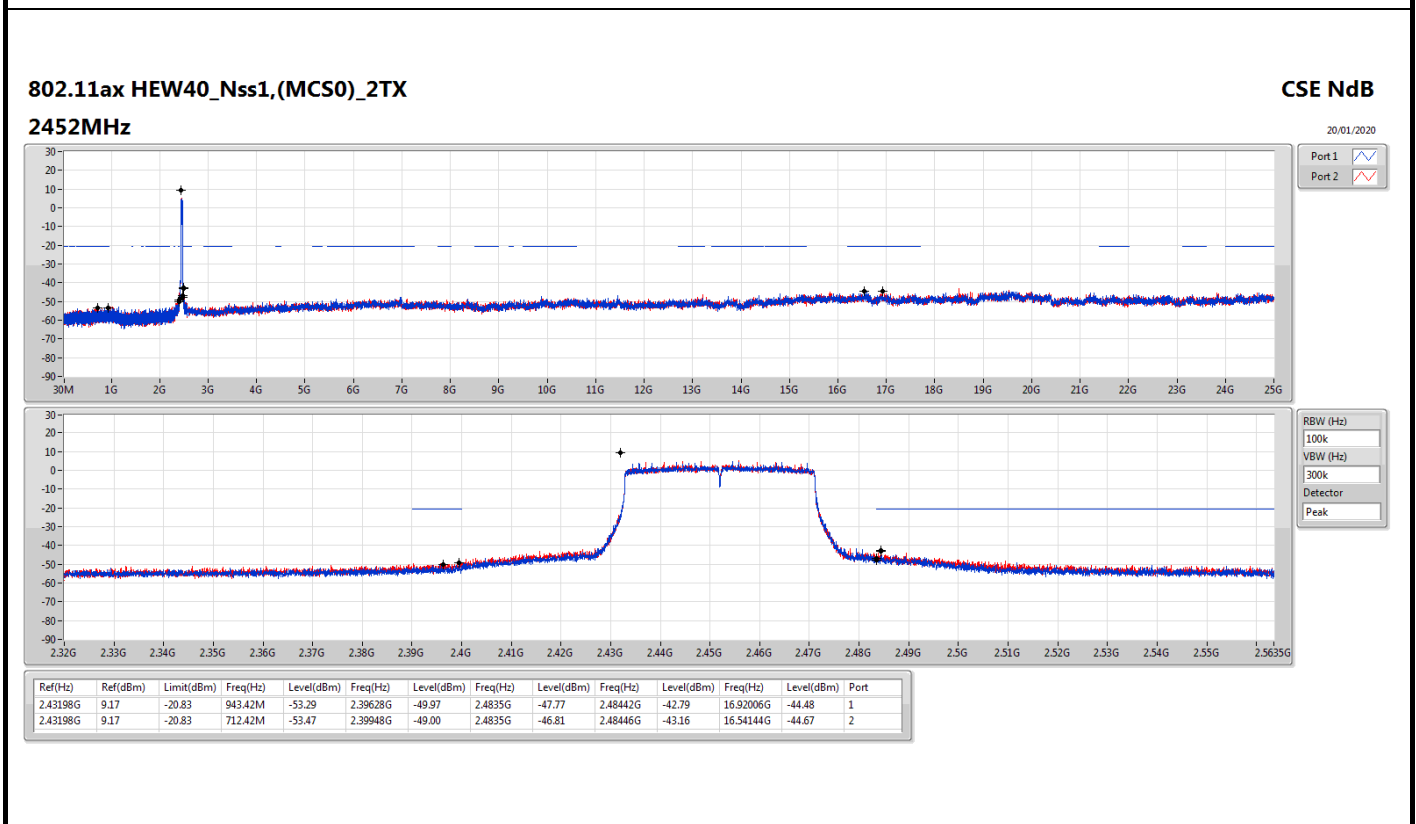
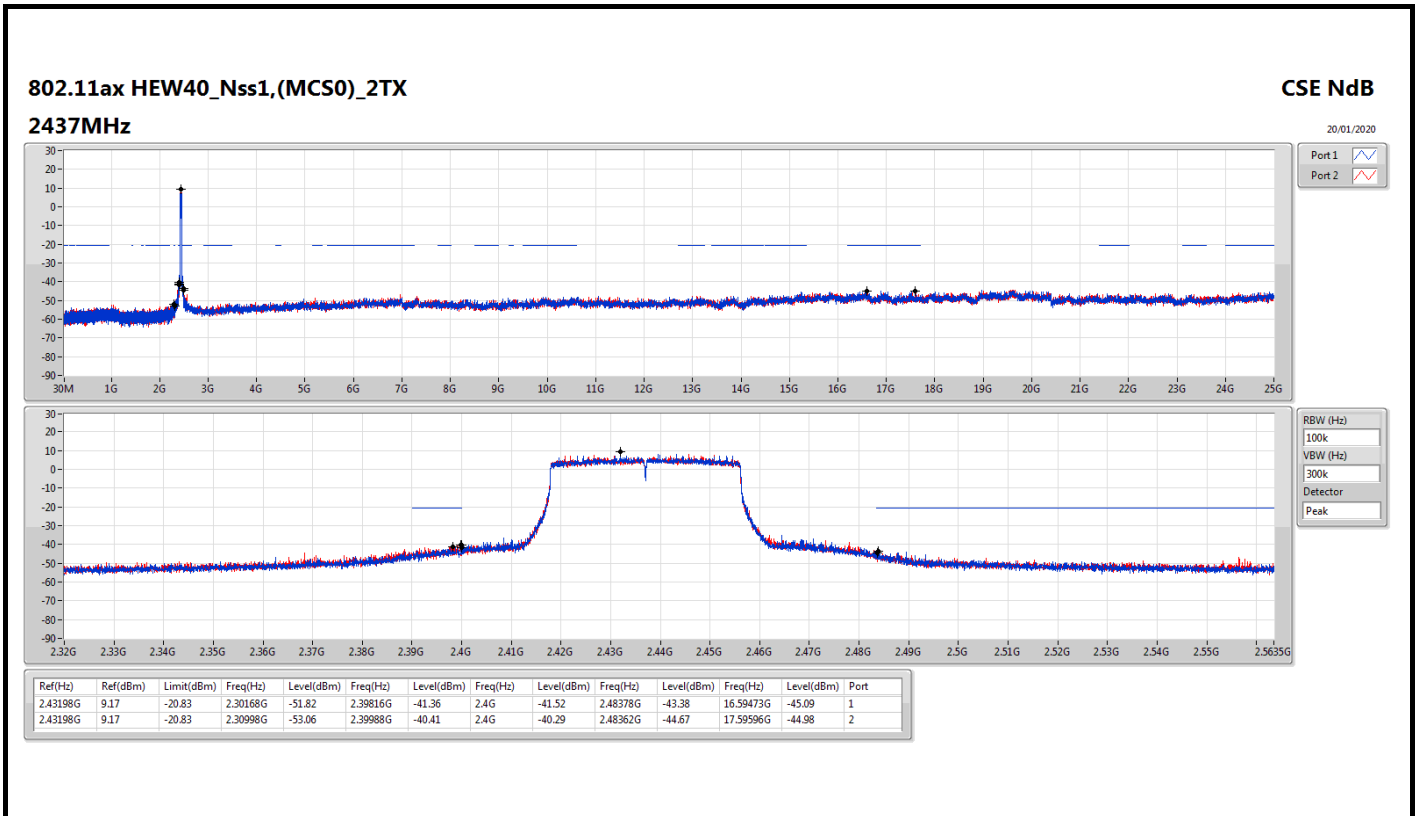
CSE NdB

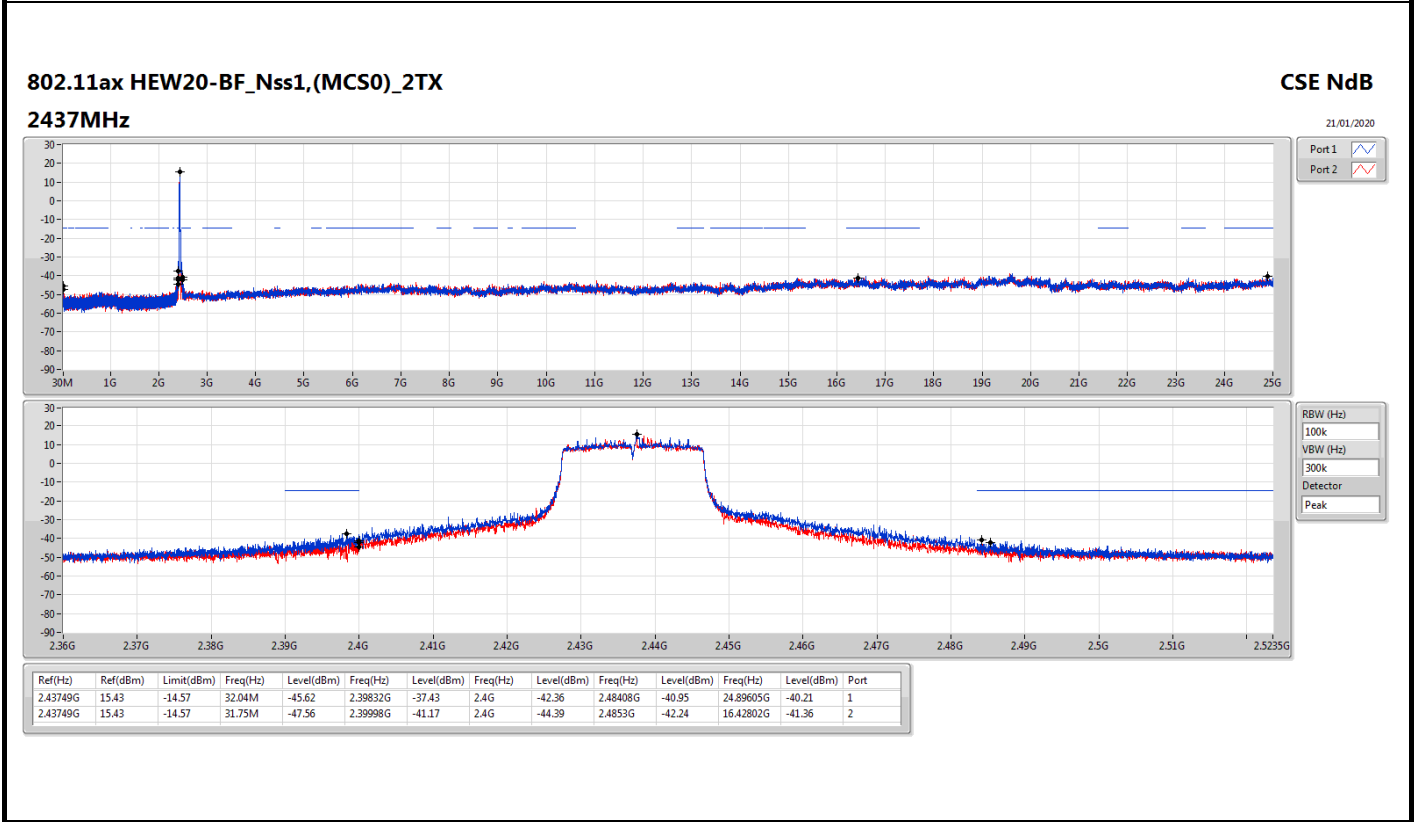
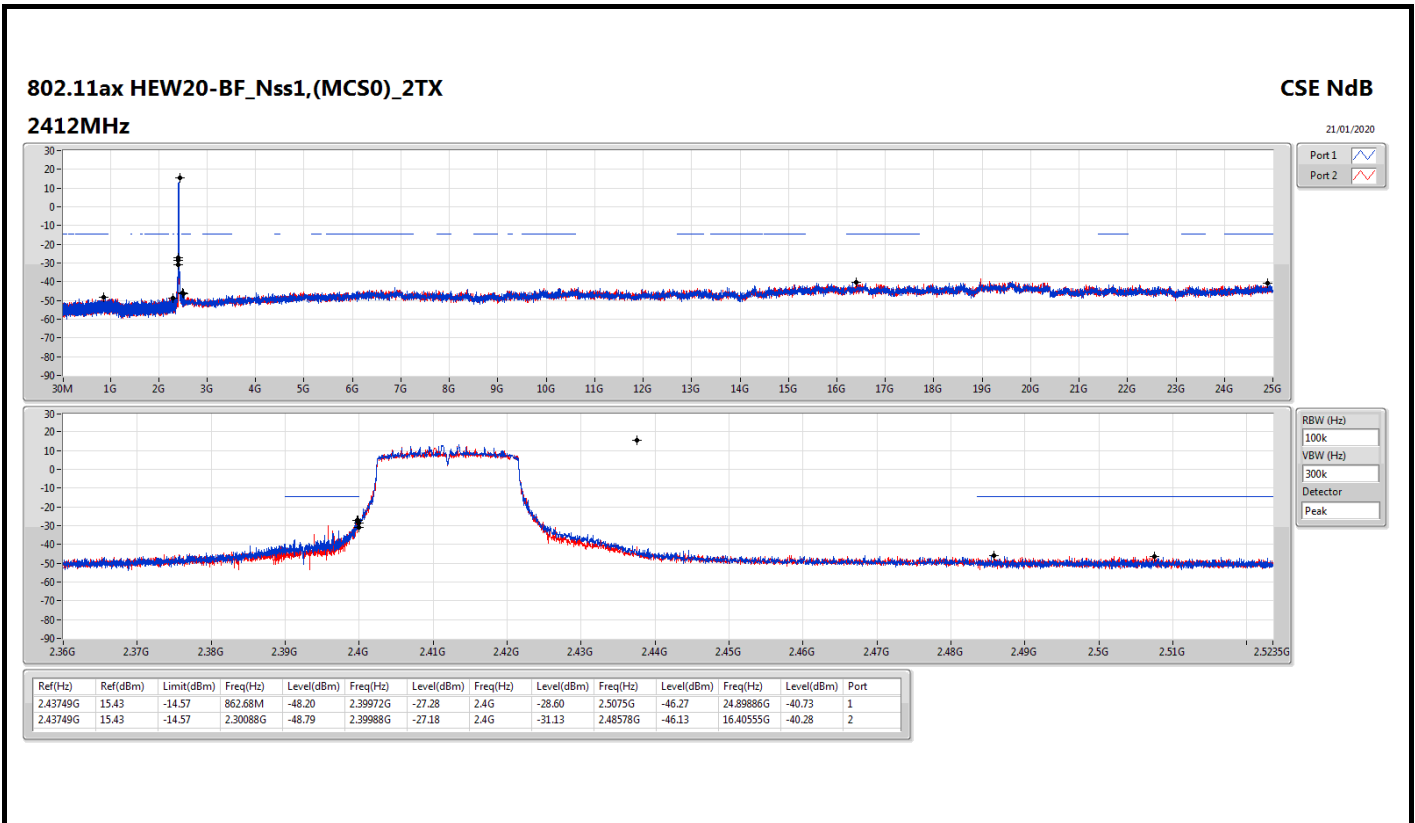


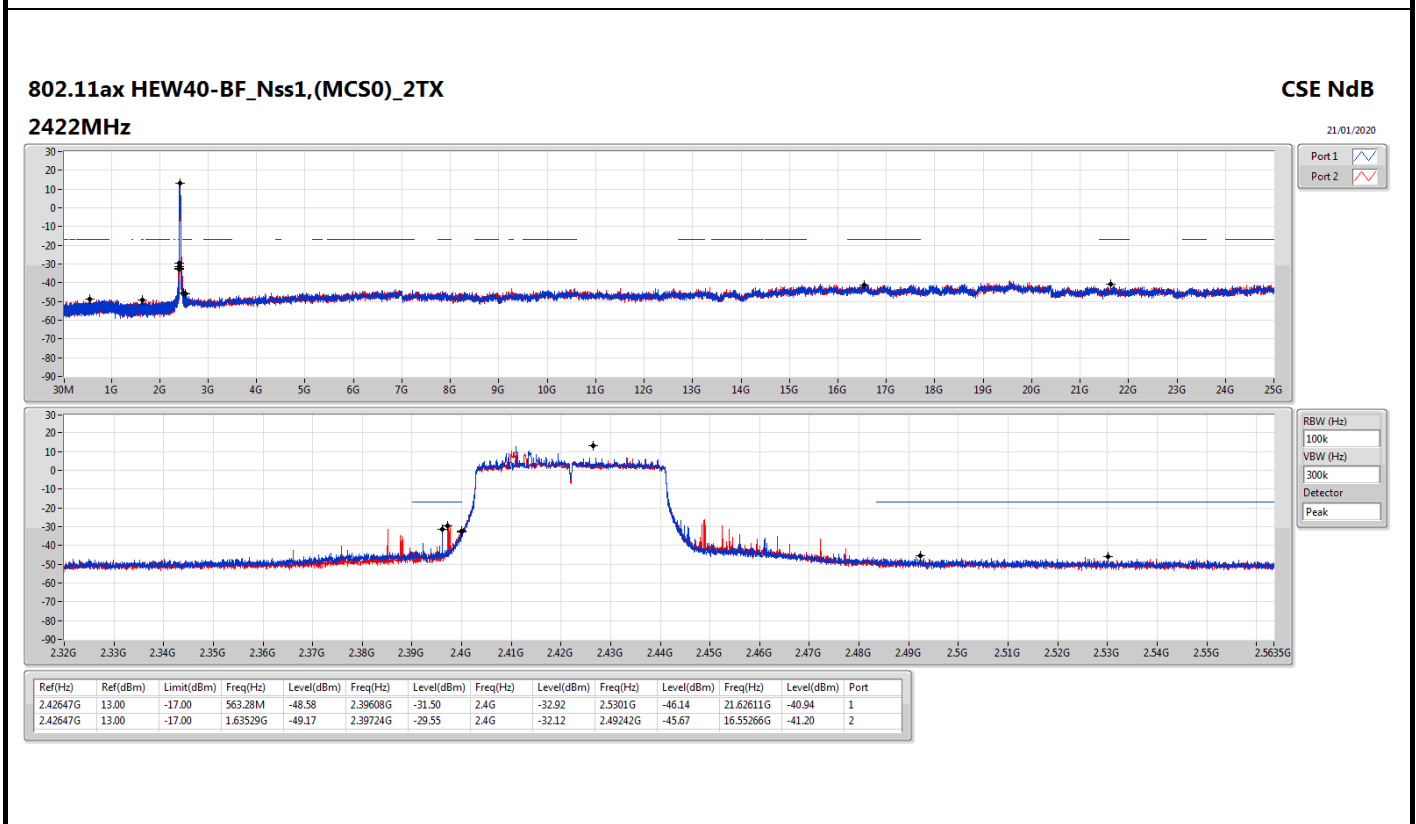
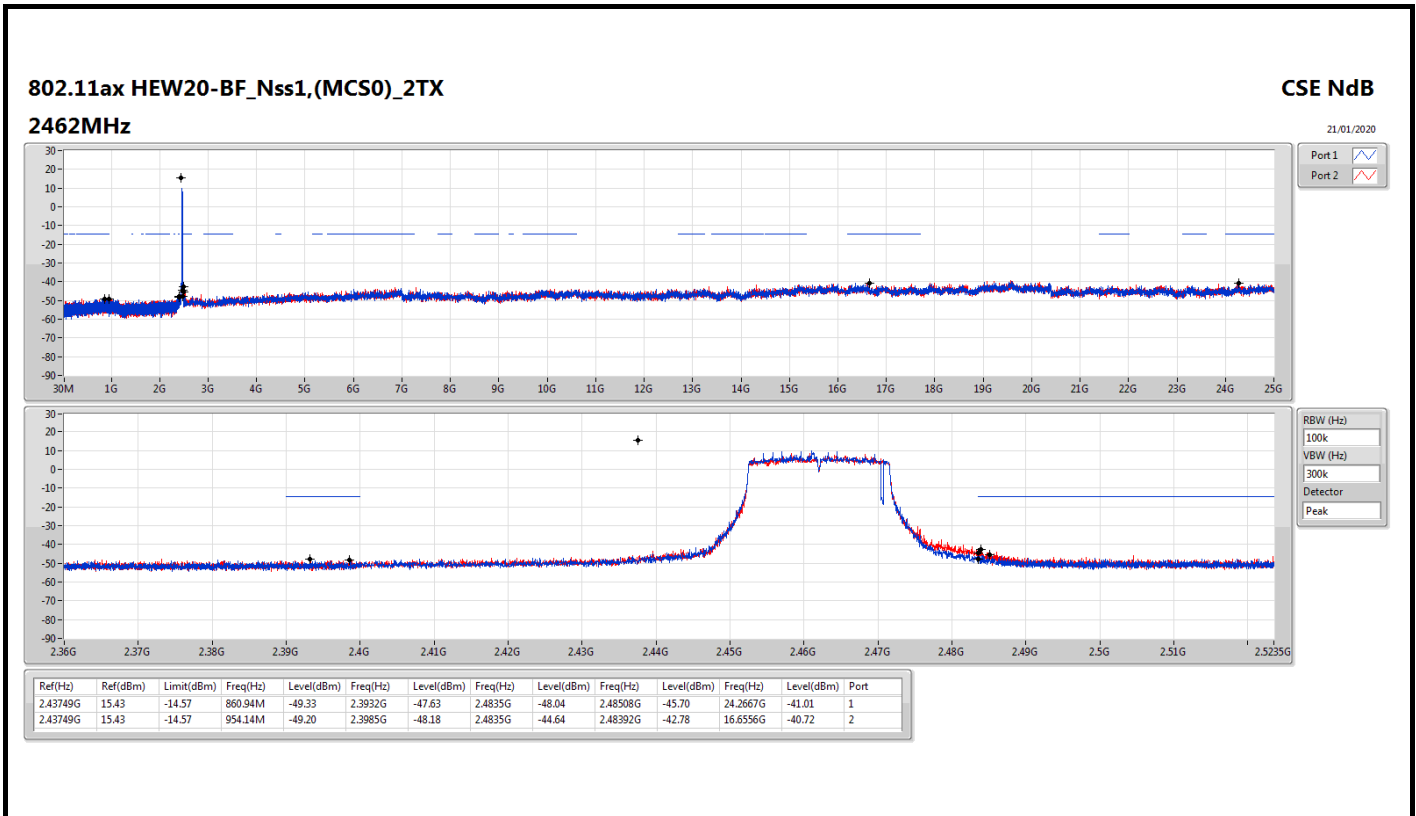
802.11ax HEW40_Nss1,(MCS0)_2TX
2422MHz

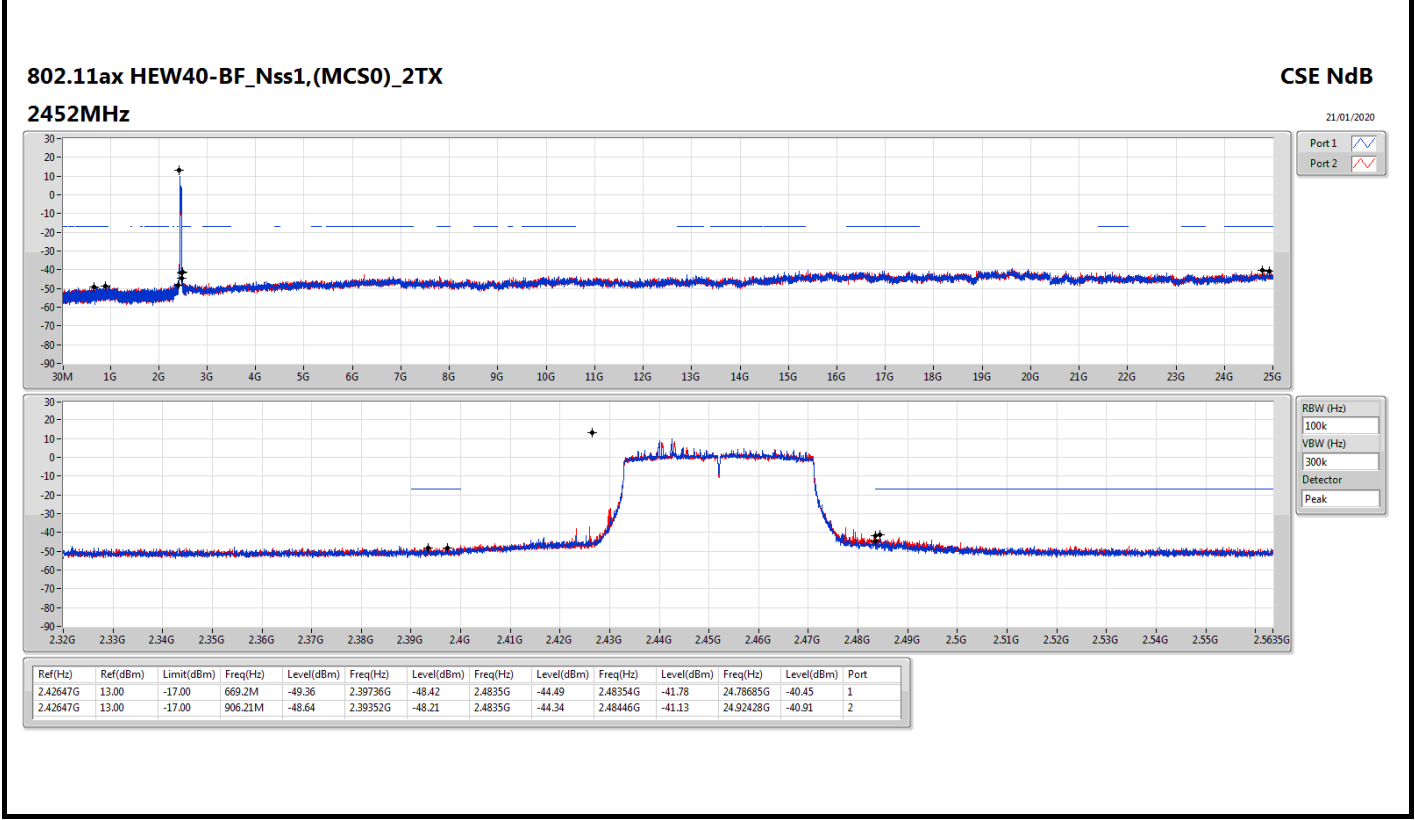
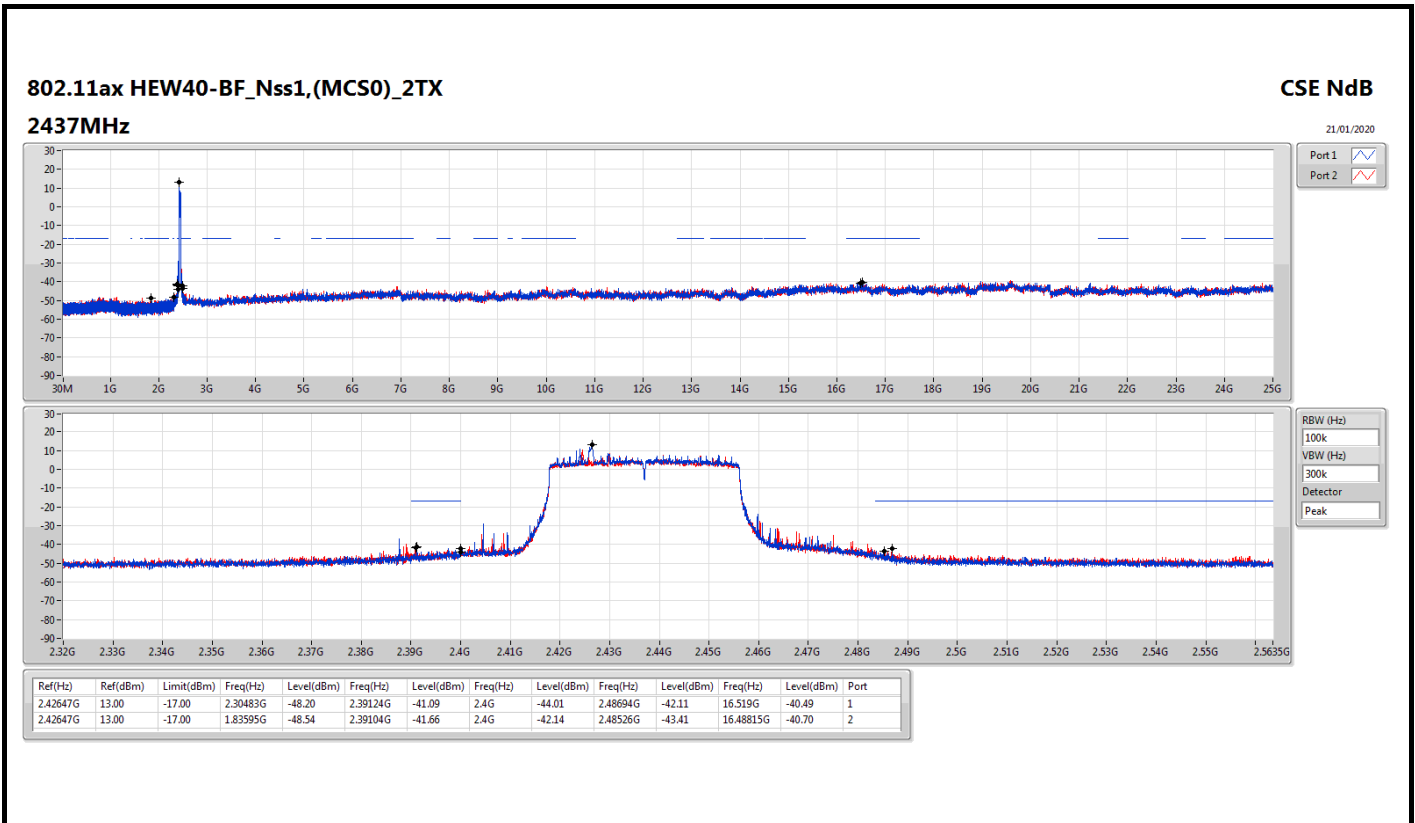
CSE NdB











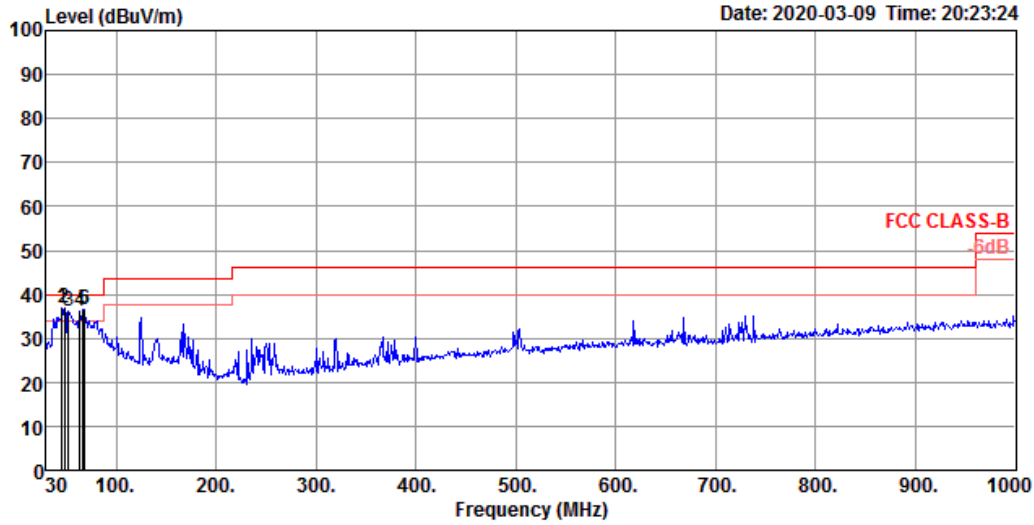


Radiated Emission below 1GHz Result

Appendix F.1

Test Mode	Mode 2	Frequency Range	30 MHz to 1,000 MHz
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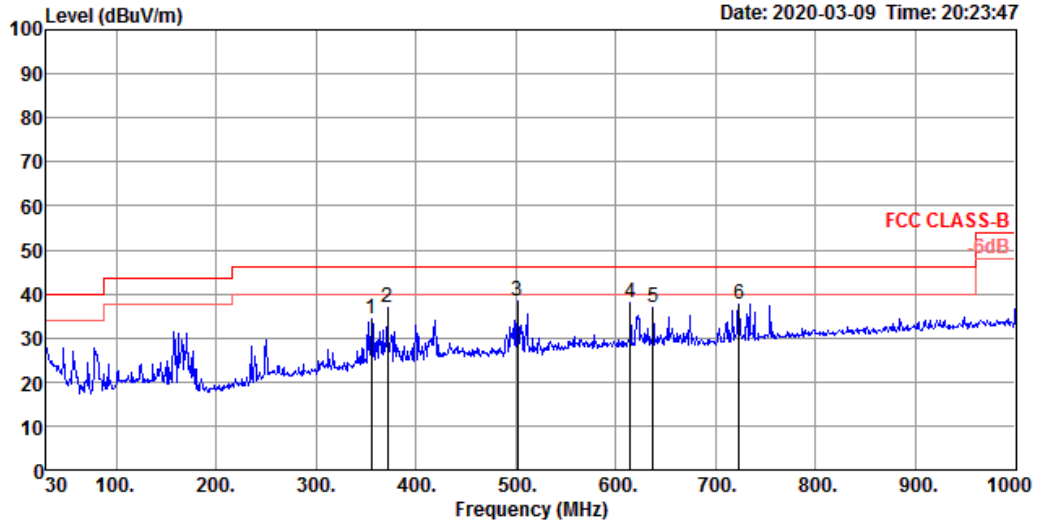
Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	45.52	36.80	40.00	-3.20	50.73	0.90	16.78	31.61	100	186	Peak	VERTICAL
2	48.43	36.85	40.00	-3.15	52.17	0.92	15.46	31.70	100	186	Peak	VERTICAL
3	52.31	36.21	40.00	-3.79	52.81	0.92	14.25	31.77	100	7	Peak	VERTICAL
4	63.95	36.35	40.00	-3.65	54.62	1.00	12.60	31.87	100	354	Peak	VERTICAL
5	66.86	36.50	40.00	-3.50	54.76	1.01	12.60	31.87	150	68	Peak	VERTICAL
6	68.80	36.47	40.00	-3.53	54.73	1.02	12.60	31.88	200	30	Peak	VERTICAL



Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	354.95	34.35	46.00	-11.65	42.69	2.47	21.34	32.15	100	3	Peak	HORIZONTAL
2	371.44	36.77	46.00	-9.23	44.64	2.51	21.78	32.16	100	347	Peak	HORIZONTAL
3	501.42	38.40	46.00	-7.60	44.11	2.94	23.83	32.48	200	169	Peak	HORIZONTAL
4	614.91	38.09	46.00	-7.91	42.09	3.29	25.08	32.37	100	304	Peak	HORIZONTAL
5	637.22	36.93	46.00	-9.07	40.81	3.26	25.34	32.48	200	197	Peak	HORIZONTAL
6	723.55	37.82	46.00	-8.18	40.78	3.55	25.90	32.41	150	359	Peak	HORIZONTAL



Summary

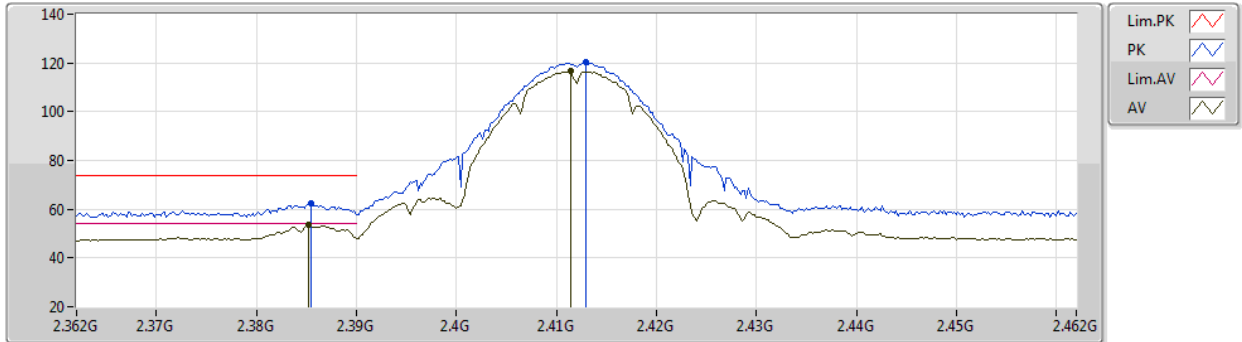
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.484G	53.98	54.00	-0.02	3	Vertical	348	1.44	-



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2412MHz_TX



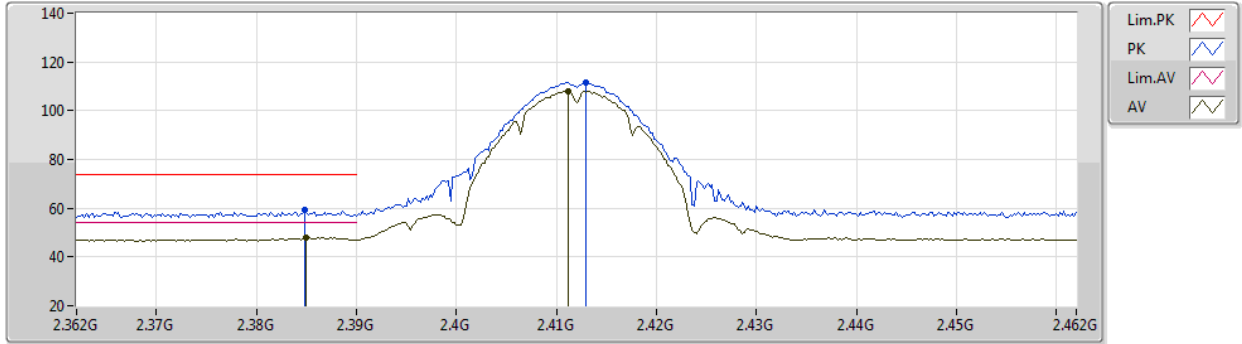
EUT Y_2TX
Setting 25.5
03-B-A-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	62.42	74.00	-11.58	31.02	3	Vertical	289	1.45	-	27.81	3.59	-
AV	2.3852G	53.78	54.00	-0.22	22.38	3	Vertical	289	1.45	-	27.81	3.59	-
PK	2.413G	120.20	Inf	-Inf	88.82	3	Vertical	289	1.45	-	27.77	3.61	-
AV	2.4114G	116.63	Inf	-Inf	85.24	3	Vertical	289	1.45	-	27.78	3.61	-

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 25.5
03-B-A-3

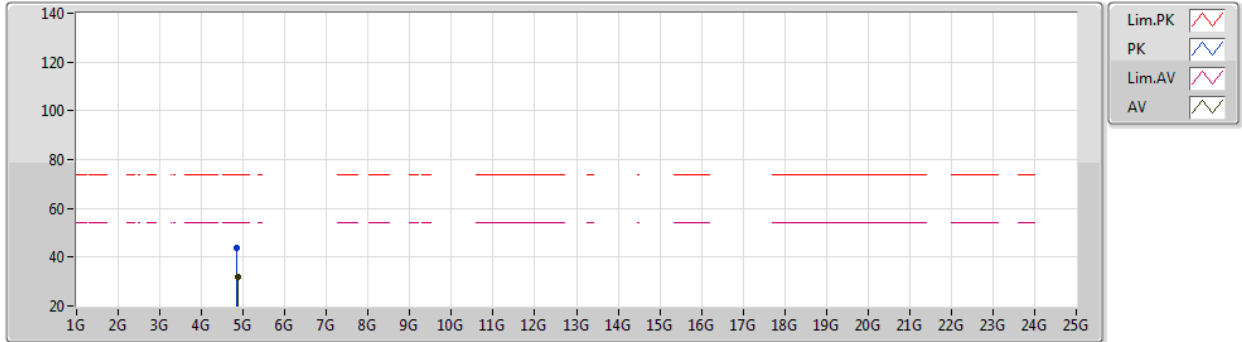
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3848G	59.14	74.00	-14.86	27.73	3	Horizontal	352	1.84	-	27.82	3.59	-
AV	2.385G	47.89	54.00	-6.11	16.48	3	Horizontal	352	1.84	-	27.82	3.59	-
PK	2.413G	111.55	Inf	-Inf	80.17	3	Horizontal	352	1.84	-	27.77	3.61	-
AV	2.4112G	107.98	Inf	-Inf	76.59	3	Horizontal	352	1.84	-	27.78	3.61	-



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 25.5
03-B-A-3

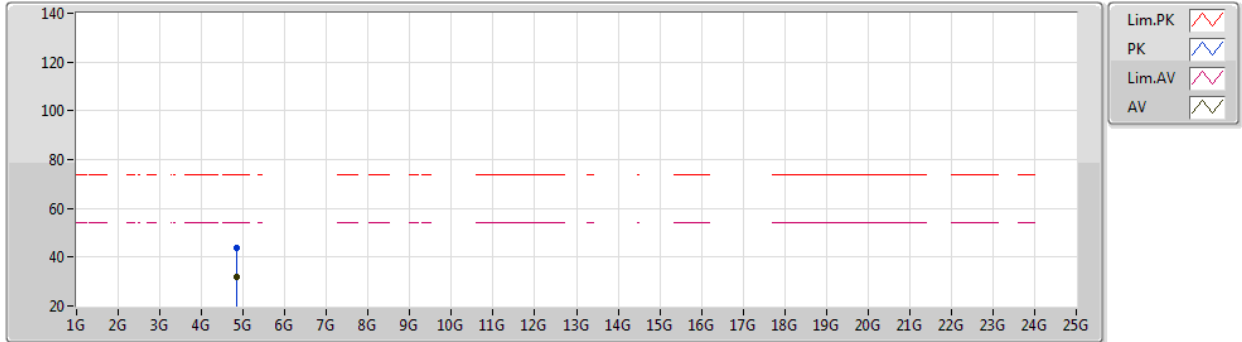
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8358G	44.02	74.00	-29.98	41.15	3	Vertical	64	1.75	-	31.30	6.38	34.81
AV	4.8614G	32.08	54.00	-21.92	29.20	3	Vertical	64	1.75	-	31.30	6.37	34.79



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2412MHz_TX



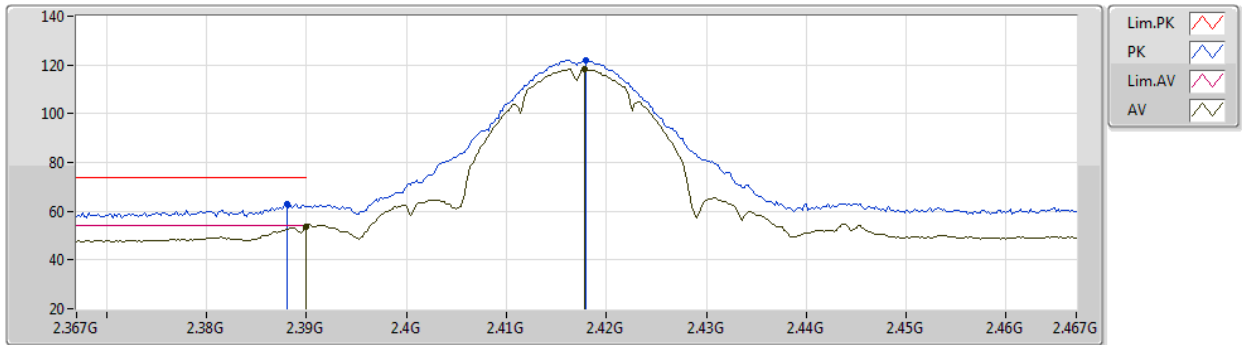
EUT Y_2TX
Setting 25.5
03-B-A-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.832G	43.63	74.00	-30.37	40.76	3	Horizontal	228	2.63	-	31.30	6.38	34.81
AV	4.849G	31.85	54.00	-22.15	28.97	3	Horizontal	228	2.63	-	31.30	6.38	34.80

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2417MHz_TX



EUT Y_2TX
Setting 26
03-B-M-1

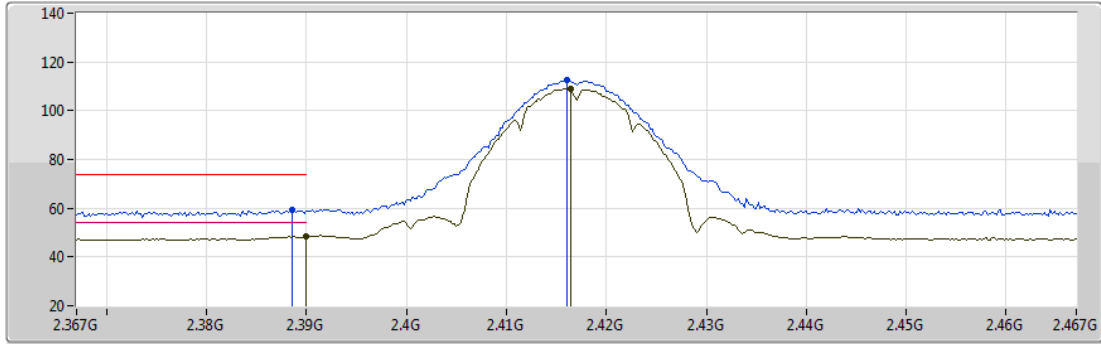
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	62.94	74.00	-11.06	31.54	3	Vertical	171	1.29	-	27.81	3.59	-
AV	2.39G	53.77	54.00	-0.23	22.36	3	Vertical	171	1.29	-	27.81	3.60	-
PK	2.418G	121.93	Inf	-Inf	90.55	3	Vertical	171	1.29	-	27.76	3.62	-
AV	2.4178G	118.36	Inf	-Inf	86.98	3	Vertical	171	1.29	-	27.76	3.62	-



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2417MHz_TX



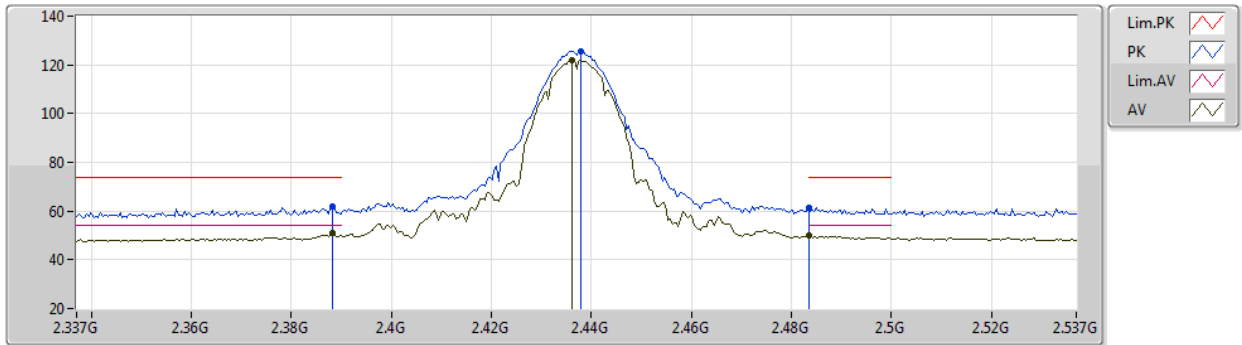
EUT Y_2TX
Setting 26
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	59.10	74.00	-14.90	27.70	3	Horizontal	3	1.27	-	27.81	3.59	-
AV	2.39G	48.59	54.00	-5.41	17.18	3	Horizontal	3	1.27	-	27.81	3.60	-
PK	2.416G	112.59	Inf	-Inf	81.20	3	Horizontal	3	1.27	-	27.77	3.62	-
AV	2.4164G	109.15	Inf	-Inf	77.76	3	Horizontal	3	1.27	-	27.77	3.62	-

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2437MHz_TX



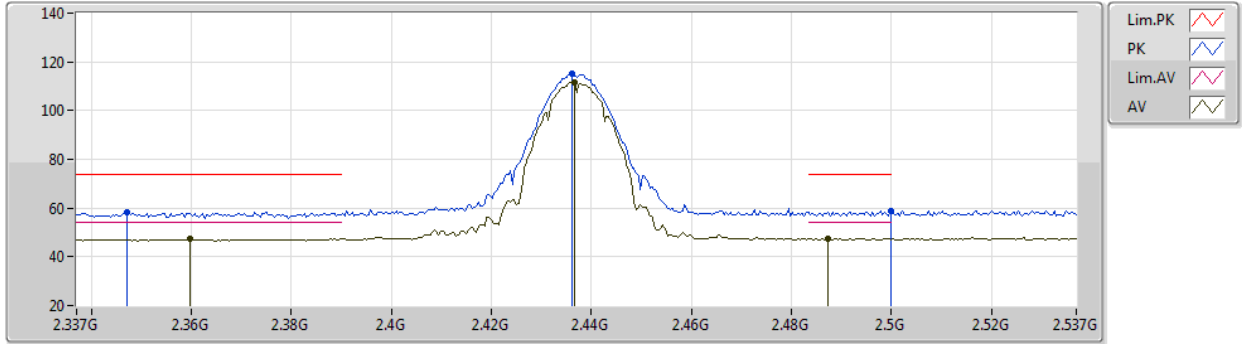
EUT Y_2TX
Setting 29.5
03-B-A-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	61.72	74.00	-12.28	30.32	3	Vertical	321	1.21	-	27.81	3.59	-
AV	2.3882G	50.79	54.00	-3.21	19.39	3	Vertical	321	1.21	-	27.81	3.59	-
PK	2.4378G	125.58	Inf	-Inf	94.22	3	Vertical	321	1.21	-	27.72	3.64	-
AV	2.4362G	122.06	Inf	-Inf	90.69	3	Vertical	321	1.21	-	27.73	3.64	-
PK	2.4835G	61.53	74.00	-12.47	30.22	3	Vertical	321	1.21	-	27.63	3.68	-
AV	2.4835G	49.90	54.00	-4.10	18.59	3	Vertical	321	1.21	-	27.63	3.68	-

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2437MHz_TX



EUT Y_2TX
Setting 29.5
03-B-A-3

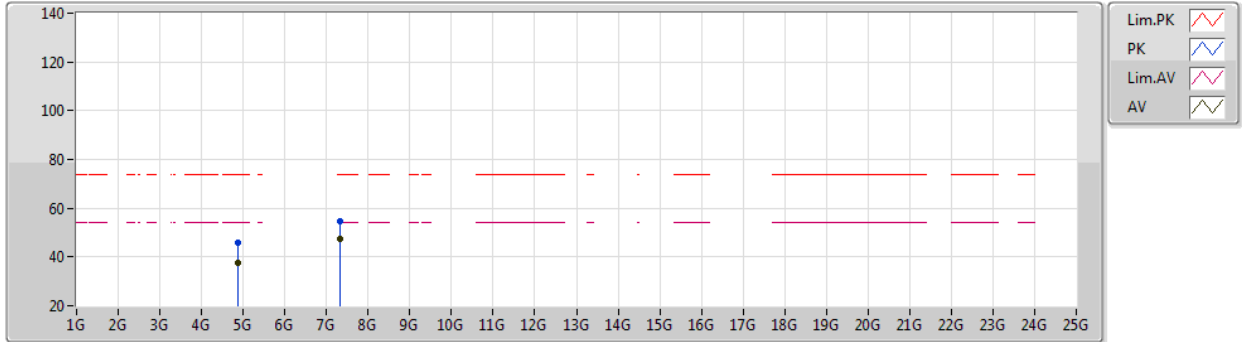
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.347G	58.29	74.00	-15.71	26.87	3	Horizontal	347	2.29	-	27.85	3.57	-
AV	2.3598G	47.23	54.00	-6.77	15.81	3	Horizontal	347	2.29	-	27.84	3.58	-
PK	2.4362G	115.10	Inf	-Inf	83.73	3	Horizontal	347	2.29	-	27.73	3.64	-
AV	2.4366G	111.77	Inf	-Inf	80.40	3	Horizontal	347	2.29	-	27.73	3.64	-
PK	2.4998G	58.68	74.00	-15.32	27.38	3	Horizontal	347	2.29	-	27.60	3.70	-
AV	2.4874G	47.58	54.00	-6.42	16.26	3	Horizontal	347	2.29	-	27.63	3.69	-



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2437MHz_TX



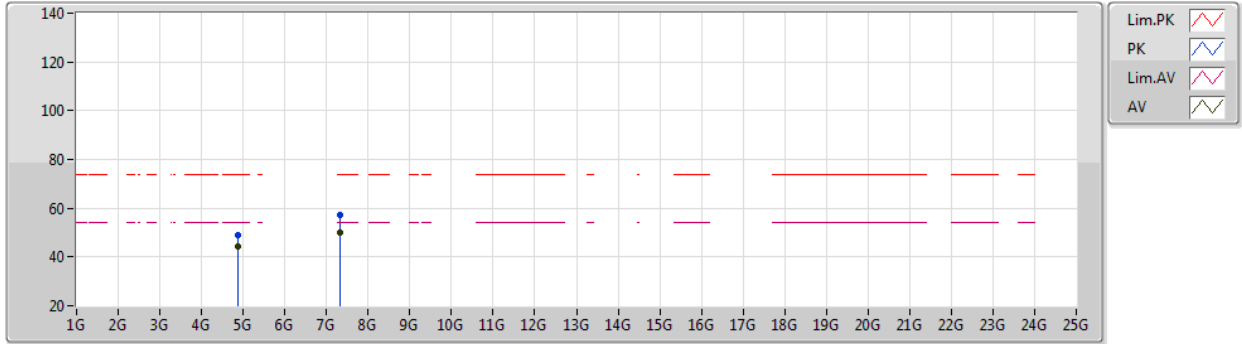
EUT Y_2TX
Setting 29.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87418G	46.07	74.00	-27.93	43.19	3	Vertical	321	1.90	-	31.30	6.36	34.78
AV	4.87394G	37.54	54.00	-16.46	34.66	3	Vertical	321	1.90	-	31.30	6.36	34.78
PK	7.31212G	54.82	74.00	-19.18	45.64	3	Vertical	202	2.97	-	36.52	7.72	35.06
AV	7.31278G	47.19	54.00	-6.81	38.00	3	Vertical	202	2.97	-	36.53	7.72	35.06

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2437MHz_TX



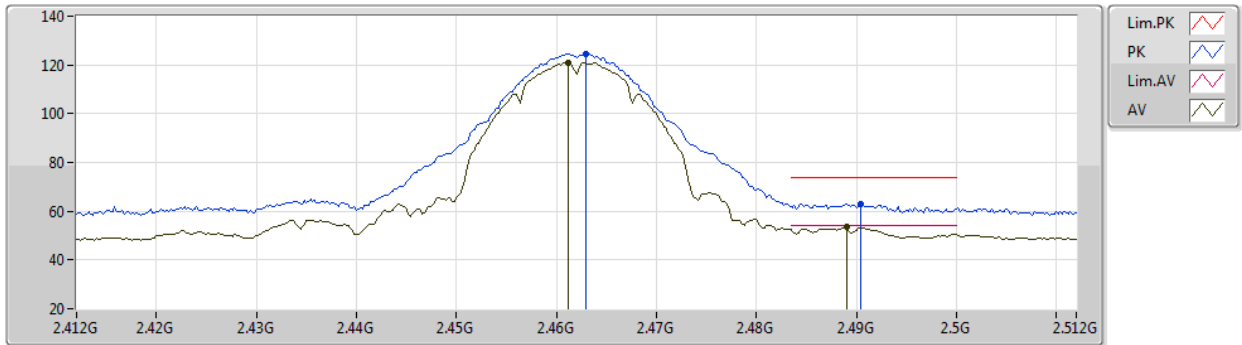
EUT Y_2TX
Setting 29.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	49.22	74.00	-24.78	46.34	3	Horizontal	267	1.80	-	31.30	6.36	34.78
AV	4.87394G	44.49	54.00	-9.51	41.61	3	Horizontal	267	1.80	-	31.30	6.36	34.78
PK	7.31196G	57.00	74.00	-17.00	47.82	3	Horizontal	258	2.51	-	36.52	7.72	35.06
AV	7.31228G	50.24	54.00	-3.76	41.06	3	Horizontal	258	2.51	-	36.52	7.72	35.06

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2462MHz_TX



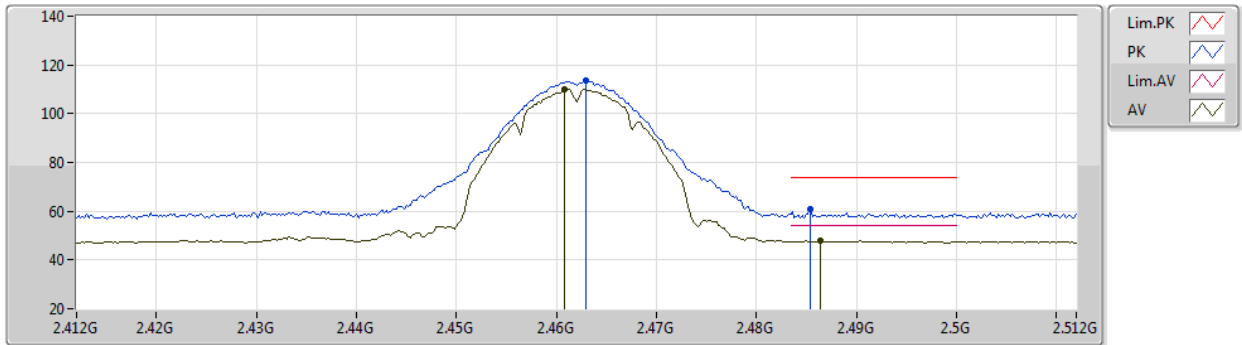
EUT Y_2TX
Setting 28.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	124.58	Inf	-Inf	93.25	3	Vertical	167	1.43	-	27.67	3.66	-
AV	2.4612G	121.07	Inf	-Inf	89.73	3	Vertical	167	1.43	-	27.68	3.66	-
PK	2.4904G	62.93	74.00	-11.07	31.62	3	Vertical	167	1.43	-	27.62	3.69	-
AV	2.489G	53.78	54.00	-0.22	22.47	3	Vertical	167	1.43	-	27.62	3.69	-

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2462MHz_TX



EUT Y_2TX
Setting 28.5
03-B-M-1

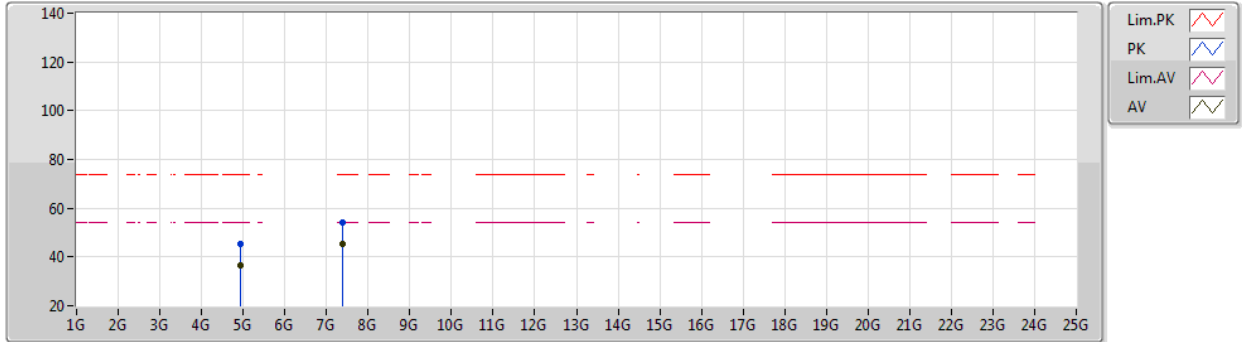
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	113.39	Inf	-Inf	82.06	3	Horizontal	349	1.77	-	27.67	3.66	-
AV	2.4608G	109.84	Inf	-Inf	78.50	3	Horizontal	349	1.77	-	27.68	3.66	-
PK	2.4854G	60.78	74.00	-13.22	29.46	3	Horizontal	349	1.77	-	27.63	3.69	-
AV	2.4864G	48.02	54.00	-5.98	16.70	3	Horizontal	349	1.77	-	27.63	3.69	-



802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2462MHz_TX



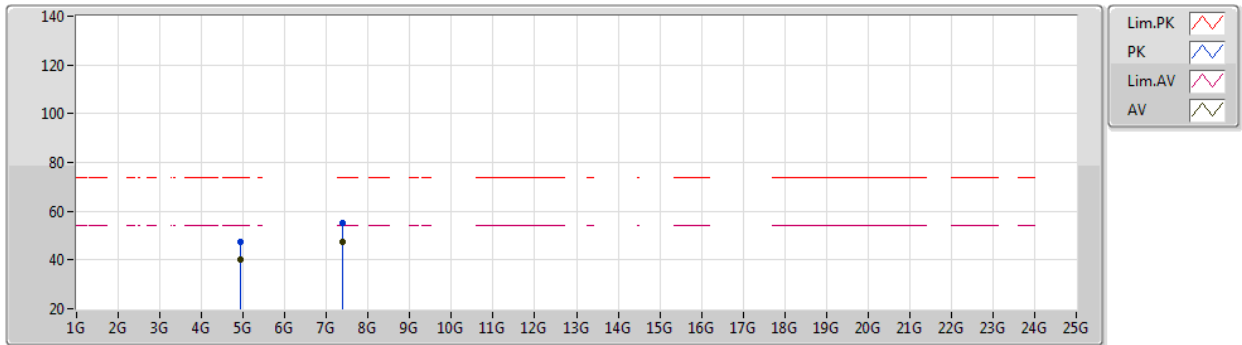
EUT Y_2TX
Setting 28.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92404G	45.21	74.00	-28.79	42.19	3	Vertical	43	2.37	-	31.42	6.34	34.74
AV	4.924G	36.59	54.00	-17.41	33.57	3	Vertical	43	2.37	-	31.42	6.34	34.74
PK	7.38716G	54.22	74.00	-19.78	44.81	3	Vertical	199	3.00	-	36.67	7.79	35.05
AV	7.3878G	45.37	54.00	-8.63	35.95	3	Vertical	199	3.00	-	36.68	7.79	35.05

802.11b_Nss1,(1Mbps)_2TX

15/01/2020

2462MHz_TX



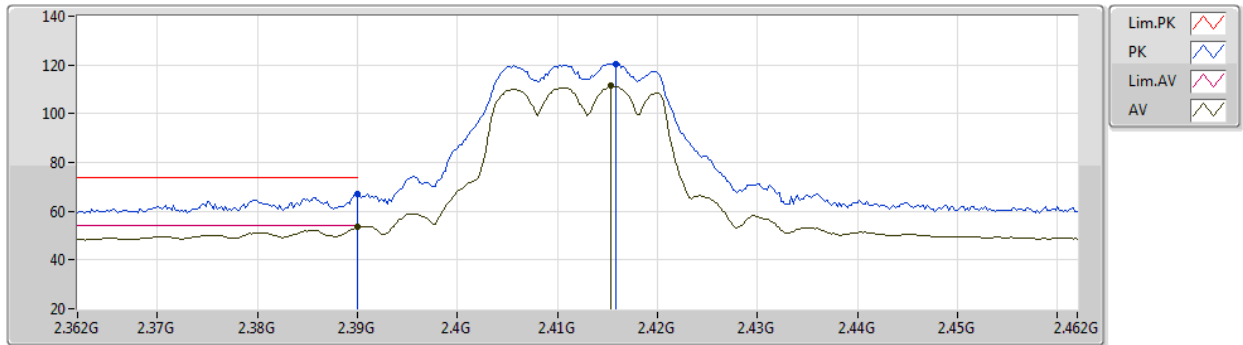
EUT Y_2TX
Setting 28.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	47.36	74.00	-26.64	44.34	3	Horizontal	260	1.61	-	31.42	6.34	34.74
AV	4.92404G	40.15	54.00	-13.85	37.13	3	Horizontal	260	1.61	-	31.42	6.34	34.74
PK	7.38736G	54.97	74.00	-19.03	45.56	3	Horizontal	254	1.95	-	36.67	7.79	35.05
AV	7.38468G	47.20	54.00	-6.80	37.79	3	Horizontal	254	1.95	-	36.67	7.79	35.05

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2412MHz_TX



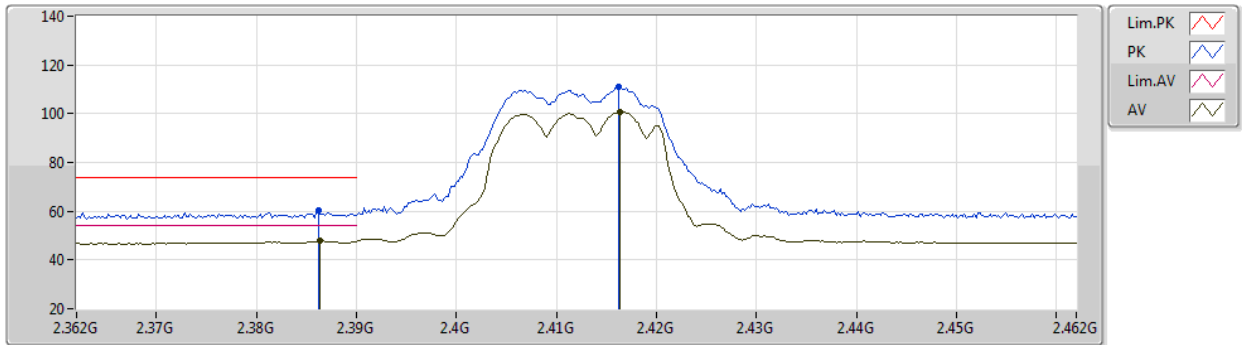
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	67.24	74.00	-6.76	35.83	3	Vertical	334	1.33	-	27.81	3.60	-
AV	2.39G	53.65	54.00	-0.35	22.24	3	Vertical	334	1.33	-	27.81	3.60	-
PK	2.4158G	120.53	Inf	-Inf	89.14	3	Vertical	334	1.33	-	27.77	3.62	-
AV	2.4154G	111.30	Inf	-Inf	79.91	3	Vertical	334	1.33	-	27.77	3.62	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 23.5
03-B-M-1

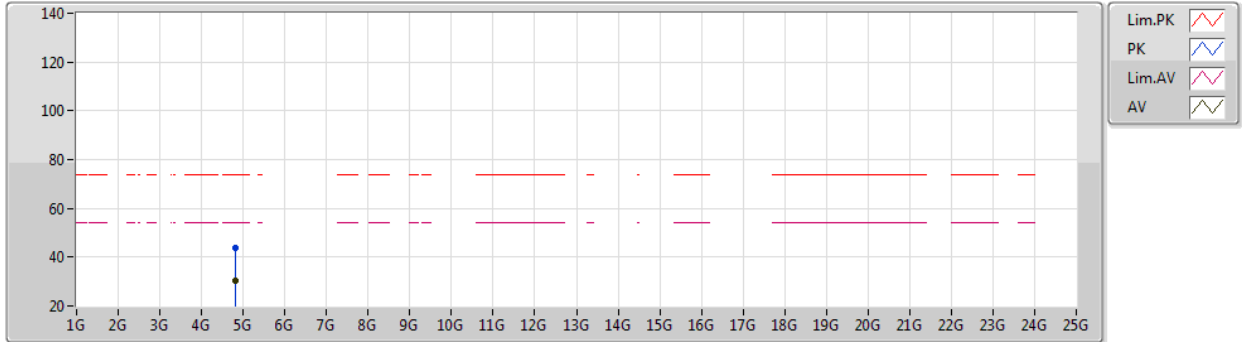
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	60.10	74.00	-13.90	28.70	3	Horizontal	11	1.04	-	27.81	3.59	-
AV	2.3864G	47.74	54.00	-6.26	16.34	3	Horizontal	11	1.04	-	27.81	3.59	-
PK	2.4162G	111.22	Inf	-Inf	79.83	3	Horizontal	11	1.04	-	27.77	3.62	-
AV	2.4164G	100.70	Inf	-Inf	69.31	3	Horizontal	11	1.04	-	27.77	3.62	-



802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 23.5
03-B-M-1

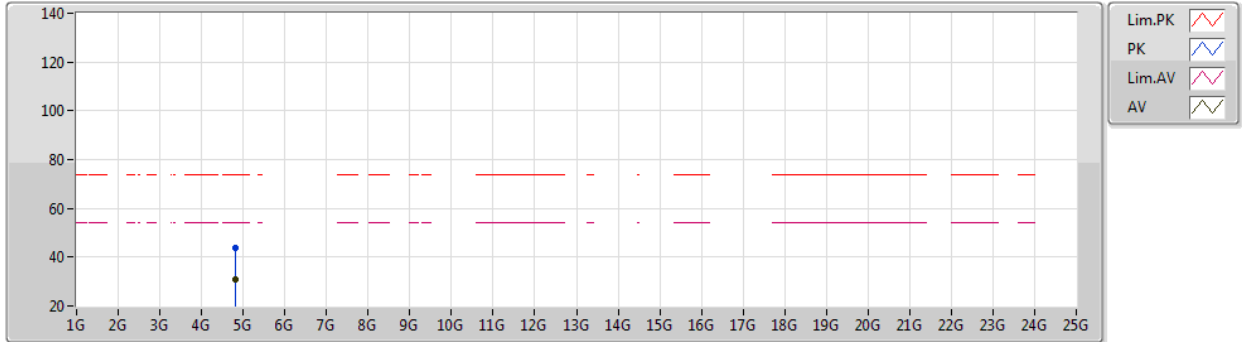
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82157G	43.69	74.00	-30.31	40.82	3	Vertical	71	1.36	-	31.30	6.39	34.82
AV	4.82538G	30.55	54.00	-23.45	27.68	3	Vertical	71	1.36	-	31.30	6.39	34.82



802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2412MHz_TX



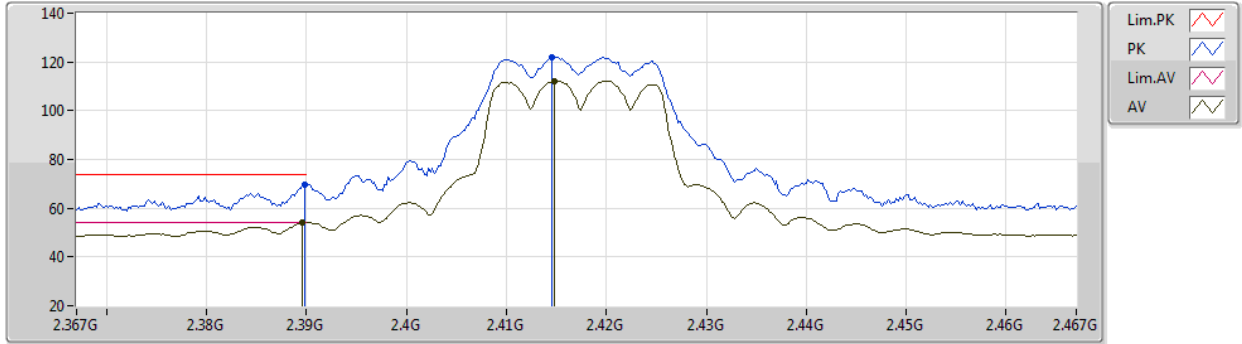
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8239G	43.89	74.00	-30.11	41.02	3	Horizontal	6	2.17	-	31.30	6.39	34.82
AV	4.82192G	30.68	54.00	-23.32	27.81	3	Horizontal	6	2.17	-	31.30	6.39	34.82

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2417MHz_TX



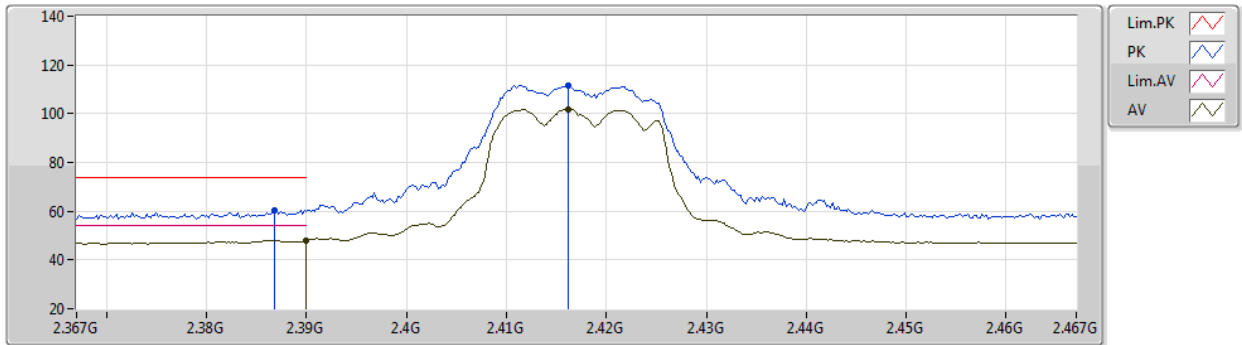
EUT Y_2TX
Setting 24.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.81	74.00	-4.19	38.41	3	Vertical	344	1.30	-	27.81	3.59	-
AV	2.3896G	53.97	54.00	-0.03	22.57	3	Vertical	344	1.30	-	27.81	3.59	-
PK	2.4146G	121.83	Inf	-Inf	90.45	3	Vertical	344	1.30	-	27.77	3.61	-
AV	2.4148G	112.26	Inf	-Inf	80.88	3	Vertical	344	1.30	-	27.77	3.61	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2417MHz_TX



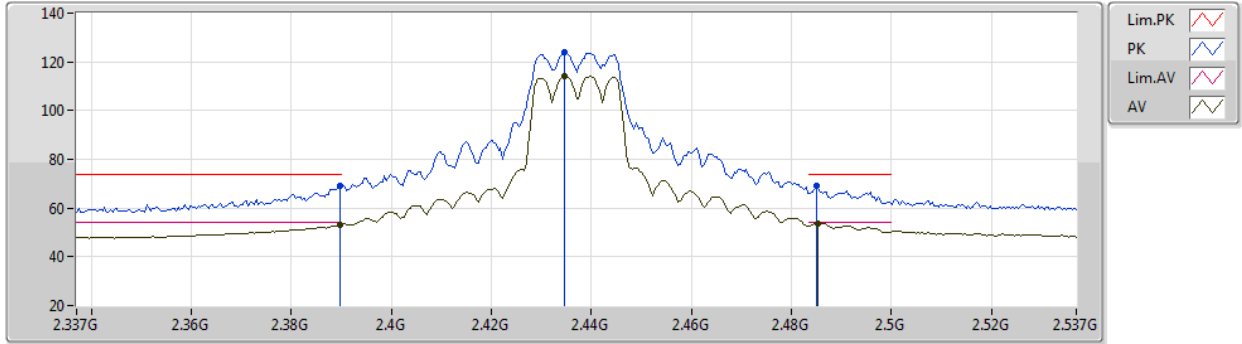
EUT Y_2TX
Setting 24.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	60.47	74.00	-13.53	29.07	3	Horizontal	17	1.01	-	27.81	3.59	-
AV	2.39G	48.04	54.00	-5.96	16.63	3	Horizontal	17	1.01	-	27.81	3.60	-
PK	2.4162G	111.61	Inf	-Inf	80.22	3	Horizontal	17	1.01	-	27.77	3.62	-
AV	2.4162G	101.93	Inf	-Inf	70.54	3	Horizontal	17	1.01	-	27.77	3.62	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2437MHz_TX



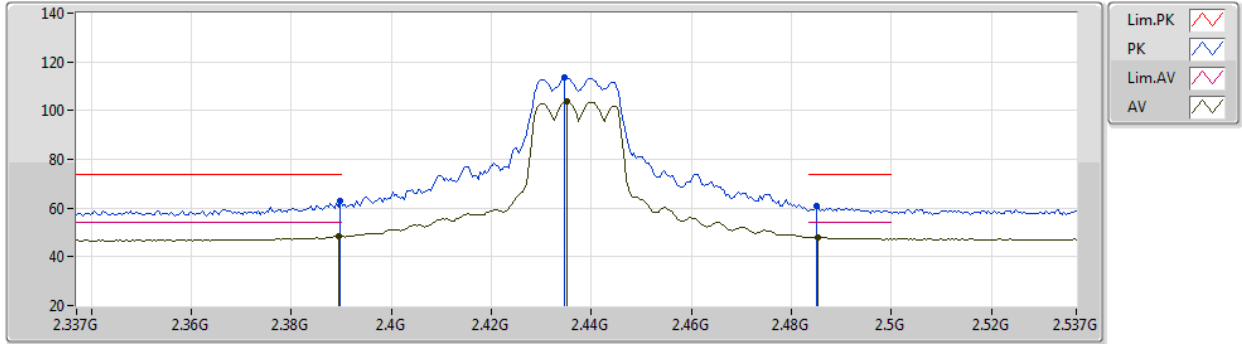
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.14	74.00	-4.86	37.74	3	Vertical	343	1.64	-	27.81	3.59	-
AV	2.3898G	53.23	54.00	-0.77	21.83	3	Vertical	343	1.64	-	27.81	3.59	-
PK	2.4346G	123.90	Inf	-Inf	92.54	3	Vertical	343	1.64	-	27.73	3.63	-
AV	2.4346G	114.10	Inf	-Inf	82.74	3	Vertical	343	1.64	-	27.73	3.63	-
PK	2.485G	69.25	74.00	-4.75	37.93	3	Vertical	343	1.64	-	27.63	3.69	-
AV	2.4854G	53.85	54.00	-0.15	22.53	3	Vertical	343	1.64	-	27.63	3.69	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2437MHz_TX



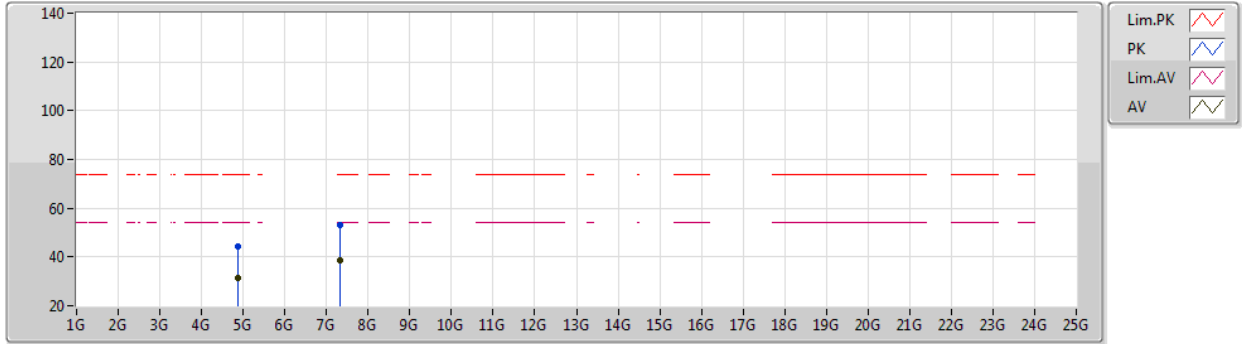
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	62.71	74.00	-11.29	31.31	3	Horizontal	23	1.77	-	27.81	3.59	-
AV	2.3894G	48.32	54.00	-5.68	16.92	3	Horizontal	23	1.77	-	27.81	3.59	-
PK	2.4346G	113.64	Inf	-Inf	82.28	3	Horizontal	23	1.77	-	27.73	3.63	-
AV	2.435G	103.70	Inf	-Inf	72.33	3	Horizontal	23	1.77	-	27.73	3.64	-
PK	2.485G	60.74	74.00	-13.26	29.42	3	Horizontal	23	1.77	-	27.63	3.69	-
AV	2.4854G	47.95	54.00	-6.05	16.63	3	Horizontal	23	1.77	-	27.63	3.69	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2437MHz_TX



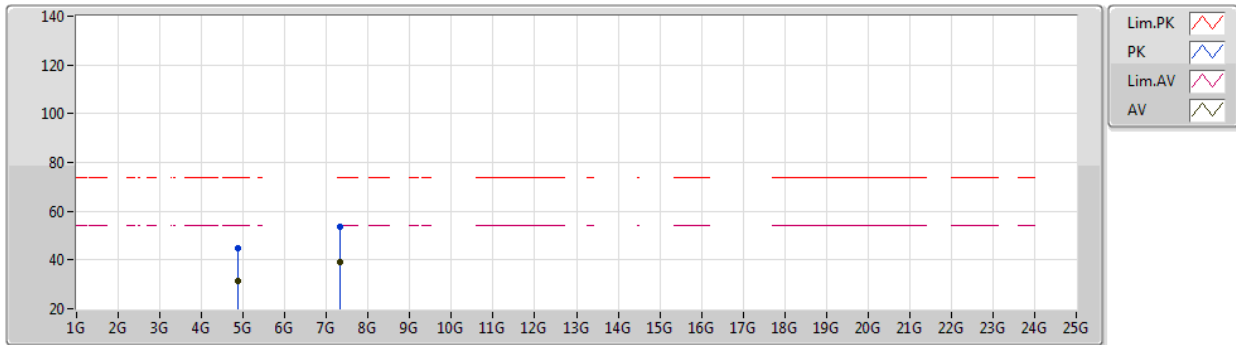
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87423G	44.47	74.00	-29.53	41.59	3	Vertical	0	1.80	-	31.30	6.36	34.78
AV	4.87211G	31.18	54.00	-22.82	28.30	3	Vertical	0	1.80	-	31.30	6.36	34.78
PK	7.3108G	52.87	74.00	-21.13	43.69	3	Vertical	198	2.97	-	36.52	7.72	35.06
AV	7.31163G	38.49	54.00	-15.51	29.31	3	Vertical	198	2.97	-	36.52	7.72	35.06

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2437MHz_TX



EUT Y_2TX
Setting 26.5
03-B-M-1

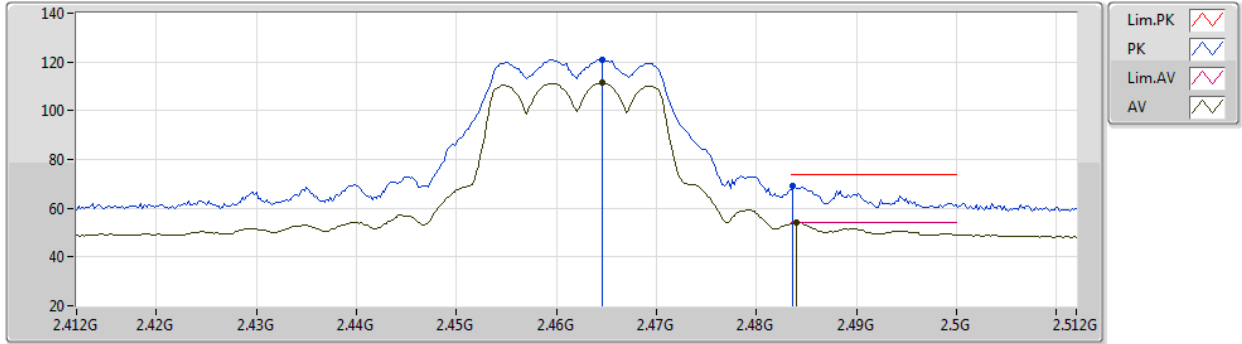
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87414G	44.98	74.00	-29.02	42.10	3	Horizontal	265	1.80	-	31.30	6.36	34.78
AV	4.87396G	31.45	54.00	-22.55	28.57	3	Horizontal	265	1.80	-	31.30	6.36	34.78
PK	7.31129G	53.59	74.00	-20.41	44.41	3	Horizontal	352	1.80	-	36.52	7.72	35.06
AV	7.31048G	38.96	54.00	-15.04	29.78	3	Horizontal	352	1.80	-	36.52	7.72	35.06



802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2462MHz_TX



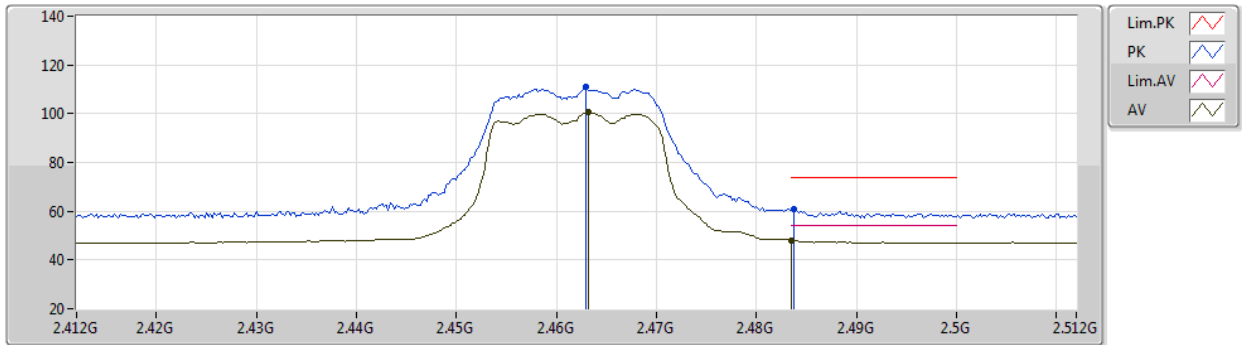
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4646G	121.07	Inf	-Inf	89.74	3	Vertical	348	1.44	-	27.67	3.66	-
AV	2.4646G	111.60	Inf	-Inf	80.27	3	Vertical	348	1.44	-	27.67	3.66	-
PK	2.4836G	69.14	74.00	-4.86	37.83	3	Vertical	348	1.44	-	27.63	3.68	-
AV	2.484G	53.98	54.00	-0.02	22.67	3	Vertical	348	1.44	-	27.63	3.68	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2462MHz_TX



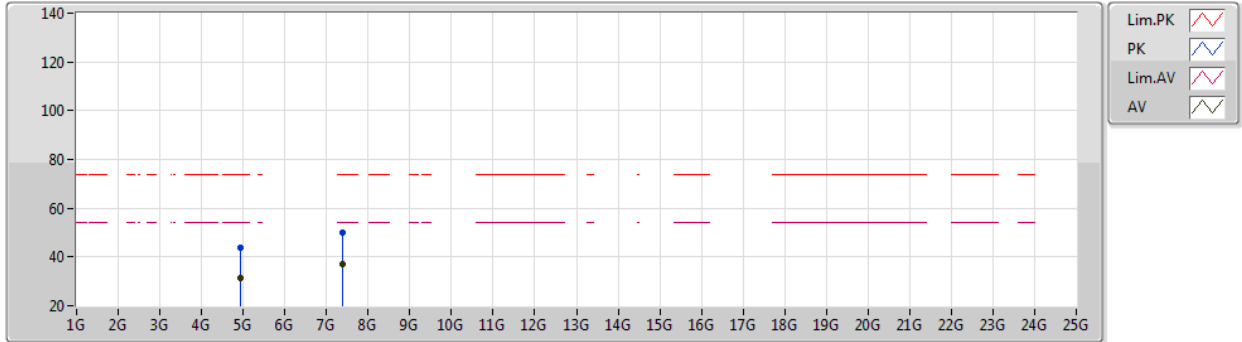
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	110.78	Inf	-Inf	79.45	3	Horizontal	342	1.76	-	27.67	3.66	-
AV	2.4632G	100.45	Inf	-Inf	69.12	3	Horizontal	342	1.76	-	27.67	3.66	-
PK	2.4838G	61.04	74.00	-12.96	29.73	3	Horizontal	342	1.76	-	27.63	3.68	-
AV	2.4835G	48.15	54.00	-5.85	16.84	3	Horizontal	342	1.76	-	27.63	3.68	-

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2462MHz_TX



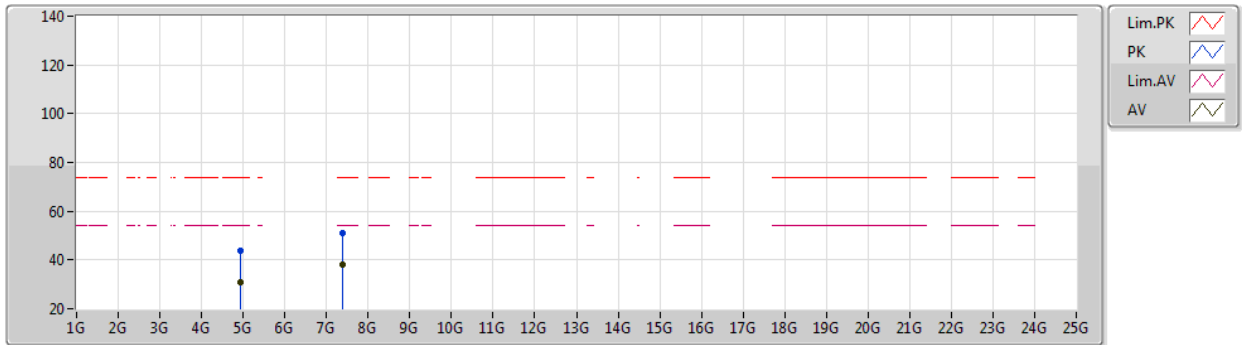
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92643G	43.83	74.00	-30.17	40.80	3	Vertical	23	2.65	-	31.43	6.34	34.74
AV	4.92647G	31.61	54.00	-22.39	28.58	3	Vertical	23	2.65	-	31.43	6.34	34.74
PK	7.38504G	50.22	74.00	-23.78	40.81	3	Vertical	141	1.77	-	36.67	7.79	35.05
AV	7.3835G	37.17	54.00	-16.83	27.76	3	Vertical	141	1.77	-	36.67	7.79	35.05

802.11g_Nss1,(6Mbps)_2TX

15/01/2020

2462MHz_TX



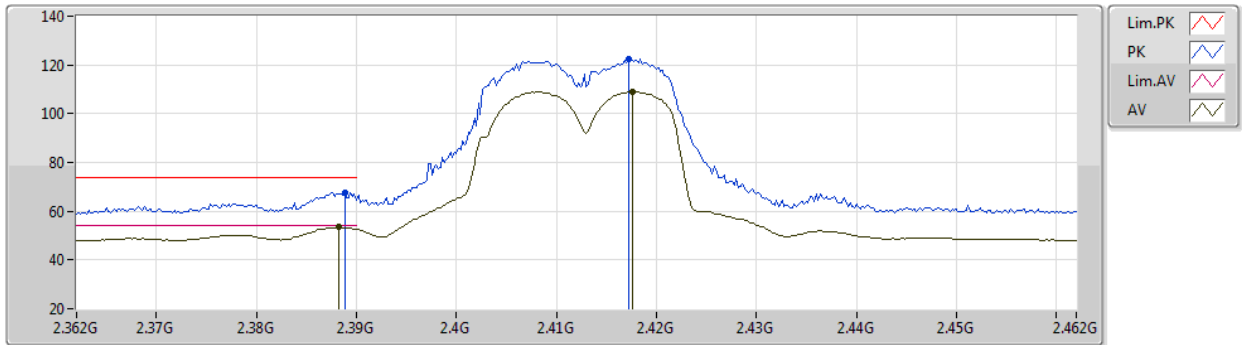
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92247G	44.03	74.00	-29.97	41.02	3	Horizontal	171	1.99	-	31.41	6.34	34.74
AV	4.92604G	30.63	54.00	-23.37	27.60	3	Horizontal	171	1.99	-	31.43	6.34	34.74
PK	7.38568G	50.88	74.00	-23.12	41.47	3	Horizontal	59	1.20	-	36.67	7.79	35.05
AV	7.38826G	38.24	54.00	-15.76	28.82	3	Horizontal	59	1.20	-	36.68	7.79	35.05

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 22.5
03-B-M-1

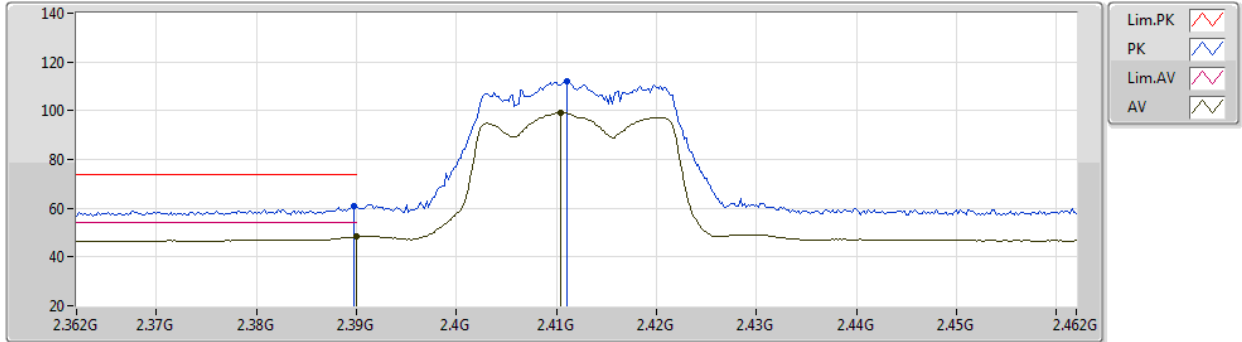
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PK	2.3888G	67.63	74.00	-6.37	36.23	3	Vertical	342	1.34	-	27.81	3.59	-
AV	2.3882G	53.57	54.00	-0.43	22.17	3	Vertical	342	1.34	-	27.81	3.59	-
PK	2.4172G	122.36	Inf	-Inf	90.97	3	Vertical	342	1.34	-	27.77	3.62	-
AV	2.4176G	108.90	Inf	-Inf	77.52	3	Vertical	342	1.34	-	27.76	3.62	-



802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



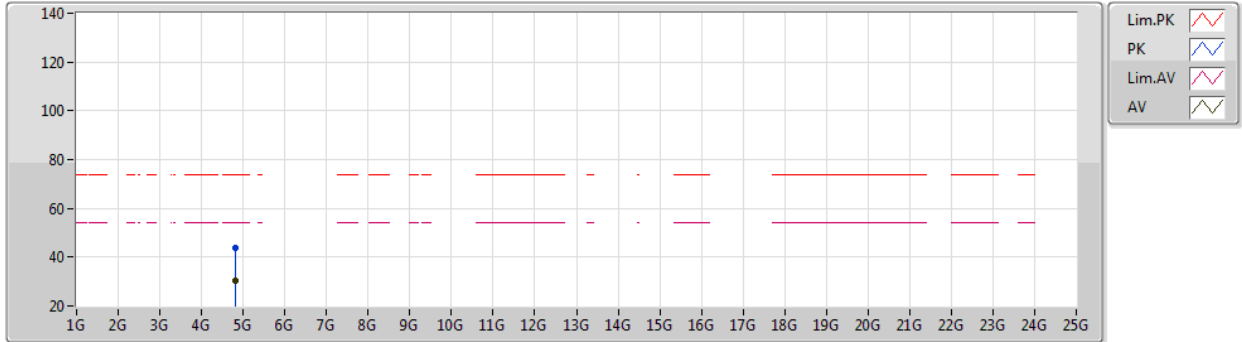
EUT Y_2TX
Setting 22.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	60.80	74.00	-13.20	29.40	3	Horizontal	6	1.28	-	27.81	3.59	-
AV	2.39G	48.31	54.00	-5.69	16.90	3	Horizontal	6	1.28	-	27.81	3.60	-
PK	2.411G	112.21	Inf	-Inf	80.82	3	Horizontal	6	1.28	-	27.78	3.61	-
AV	2.4104G	99.06	Inf	-Inf	67.67	3	Horizontal	6	1.28	-	27.78	3.61	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



EUT Y_2TX
Setting 22.5
03-B-M-1

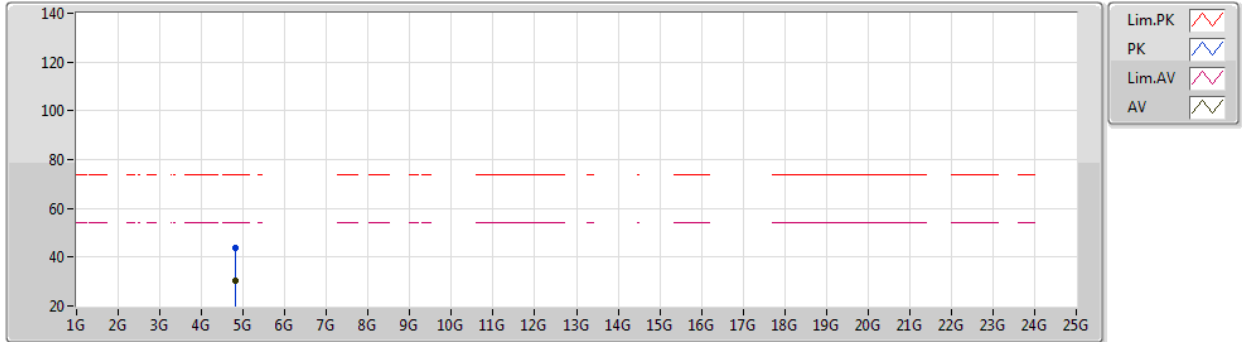
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82329G	43.80	74.00	-30.20	40.93	3	Vertical	198	1.80	-	31.30	6.39	34.82
AV	4.82154G	30.41	54.00	-23.59	27.54	3	Vertical	198	1.80	-	31.30	6.39	34.82



802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



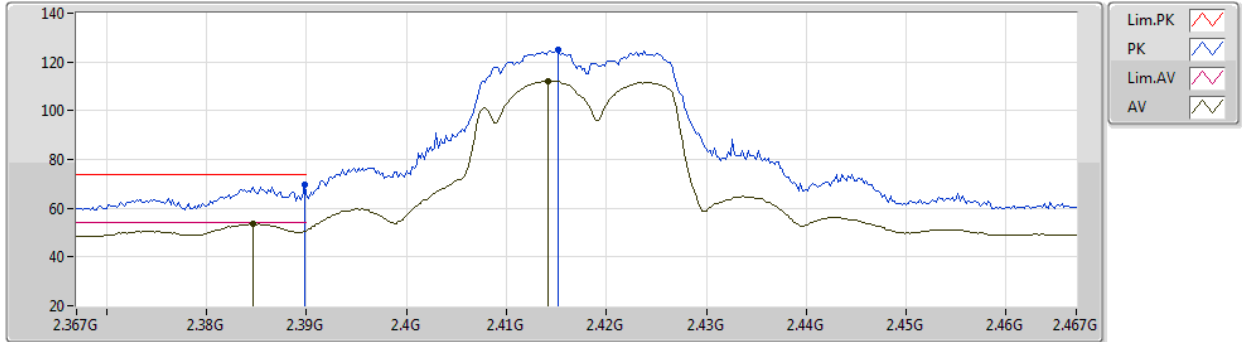
EUT Y_2TX
Setting 22.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82297G	43.82	74.00	-30.18	40.95	3	Horizontal	271	2.82	-	31.30	6.39	34.82
AV	4.82302G	30.12	54.00	-23.88	27.25	3	Horizontal	271	2.82	-	31.30	6.39	34.82

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2417MHz_TX



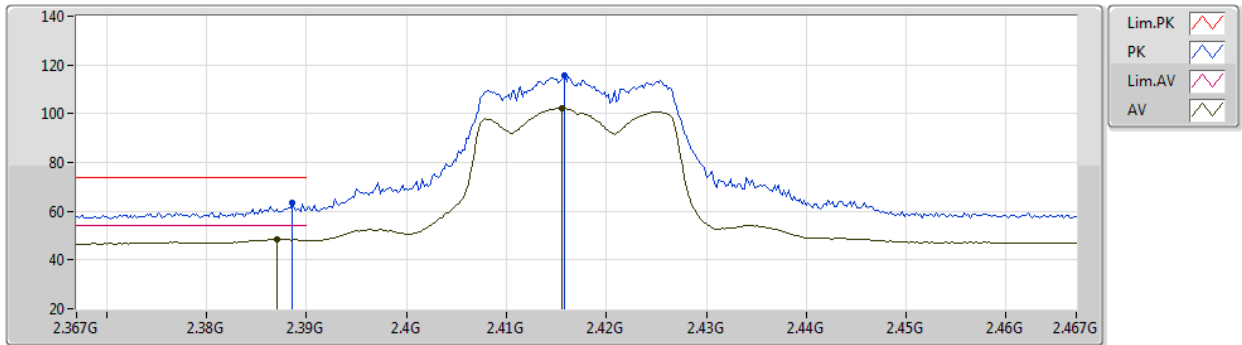
EUT Y_2TX
Setting 24.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.57	74.00	-4.43	38.17	3	Vertical	335	1.33	-	27.81	3.59	-
AV	2.3846G	53.60	54.00	-0.40	22.19	3	Vertical	335	1.33	-	27.82	3.59	-
PK	2.4152G	124.92	Inf	-Inf	93.53	3	Vertical	335	1.33	-	27.77	3.62	-
AV	2.4142G	112.25	Inf	-Inf	80.87	3	Vertical	335	1.33	-	27.77	3.61	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2417MHz_TX



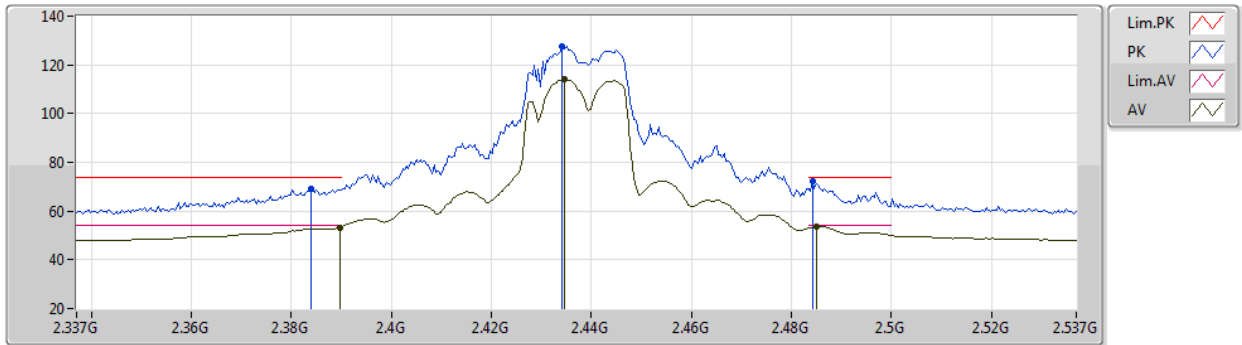
EUT Y_2TX
Setting 24.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	63.35	74.00	-10.65	31.95	3	Horizontal	16	1.00	-	27.81	3.59	-
AV	2.387G	48.56	54.00	-5.44	17.16	3	Horizontal	16	1.00	-	27.81	3.59	-
PK	2.4158G	115.58	Inf	-Inf	84.19	3	Horizontal	16	1.00	-	27.77	3.62	-
AV	2.4156G	102.19	Inf	-Inf	70.80	3	Horizontal	16	1.00	-	27.77	3.62	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



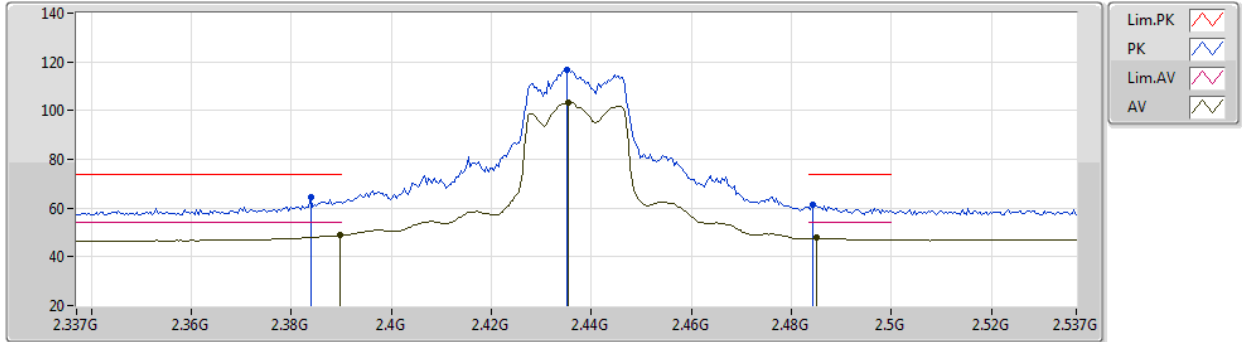
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3838G	69.26	74.00	-4.74	37.85	3	Vertical	334	1.27	-	27.82	3.59	-
AV	2.3898G	53.26	54.00	-0.74	21.86	3	Vertical	334	1.27	-	27.81	3.59	-
PK	2.4342G	127.54	Inf	-Inf	96.18	3	Vertical	334	1.27	-	27.73	3.63	-
AV	2.4346G	114.05	Inf	-Inf	82.69	3	Vertical	334	1.27	-	27.73	3.63	-
PK	2.4842G	72.42	74.00	-1.58	41.11	3	Vertical	334	1.27	-	27.63	3.68	-
AV	2.485G	53.74	54.00	-0.26	22.42	3	Vertical	334	1.27	-	27.63	3.69	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



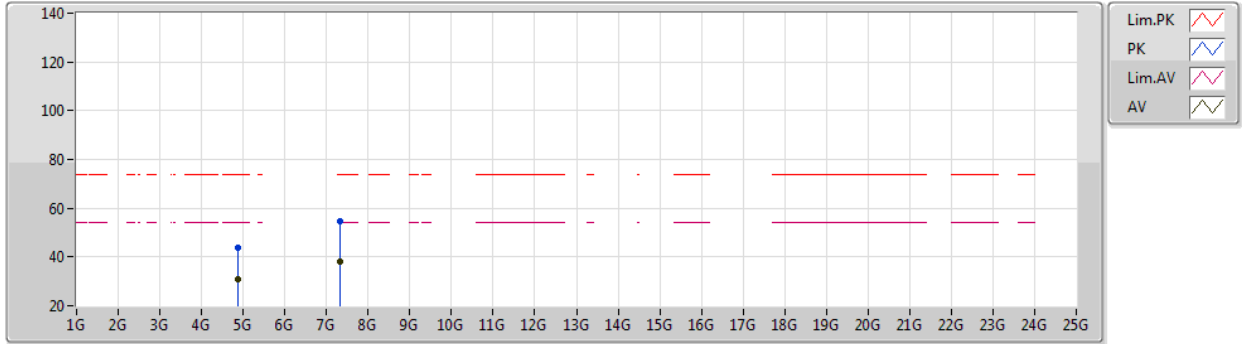
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3838G	64.33	74.00	-9.67	32.92	3	Horizontal	7	1.20	-	27.82	3.59	-
AV	2.3898G	48.81	54.00	-5.19	17.41	3	Horizontal	7	1.20	-	27.81	3.59	-
PK	2.435G	116.82	Inf	-Inf	85.45	3	Horizontal	7	1.20	-	27.73	3.64	-
AV	2.4354G	103.16	Inf	-Inf	71.79	3	Horizontal	7	1.20	-	27.73	3.64	-
PK	2.4842G	61.15	74.00	-12.85	29.84	3	Horizontal	7	1.20	-	27.63	3.68	-
AV	2.485G	47.70	54.00	-6.30	16.38	3	Horizontal	7	1.20	-	27.63	3.69	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



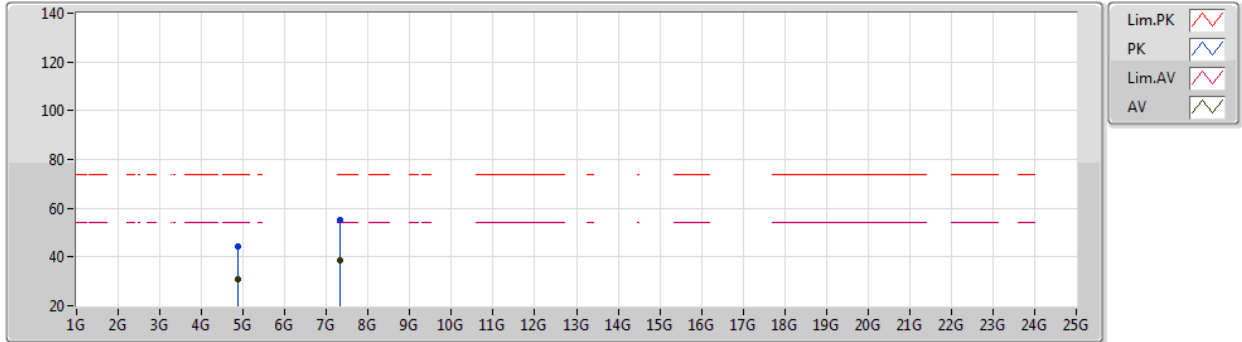
EUT Y_2TX
Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87389G	43.74	74.00	-30.26	40.86	3	Vertical	17	2.40	-	31.30	6.36	34.78
AV	4.87636G	30.62	54.00	-23.38	27.74	3	Vertical	17	2.40	-	31.30	6.36	34.78
PK	7.31081G	54.68	74.00	-19.32	45.50	3	Vertical	199	2.61	-	36.52	7.72	35.06
AV	7.31137G	38.25	54.00	-15.75	29.07	3	Vertical	199	2.61	-	36.52	7.72	35.06

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



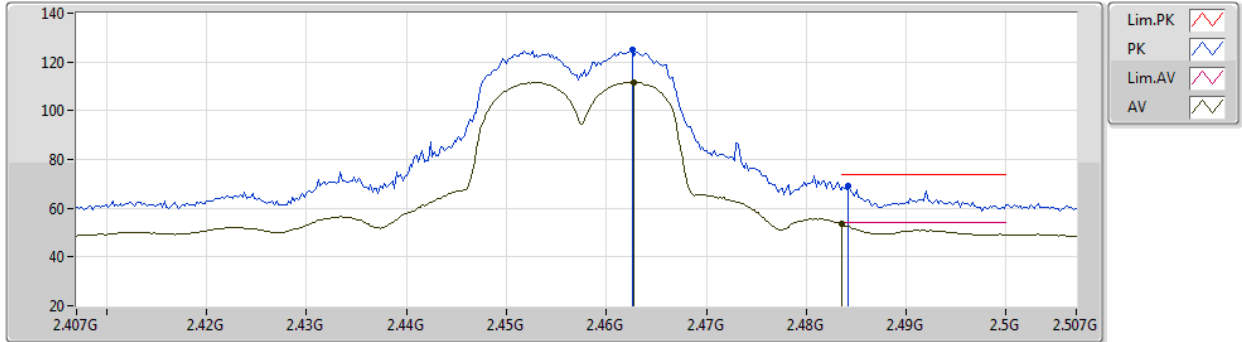
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Setting 26.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8742G	44.53	74.00	-29.47	41.65	3	Horizontal	275	2.09	-	31.30	6.36	34.78
AV	4.87259G	30.69	54.00	-23.31	27.81	3	Horizontal	275	2.09	-	31.30	6.36	34.78
PK	7.31044G	55.22	74.00	-18.78	46.04	3	Horizontal	353	1.62	-	36.52	7.72	35.06
AV	7.31108G	38.82	54.00	-15.18	29.64	3	Horizontal	353	1.62	-	36.52	7.72	35.06

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2457MHz_TX



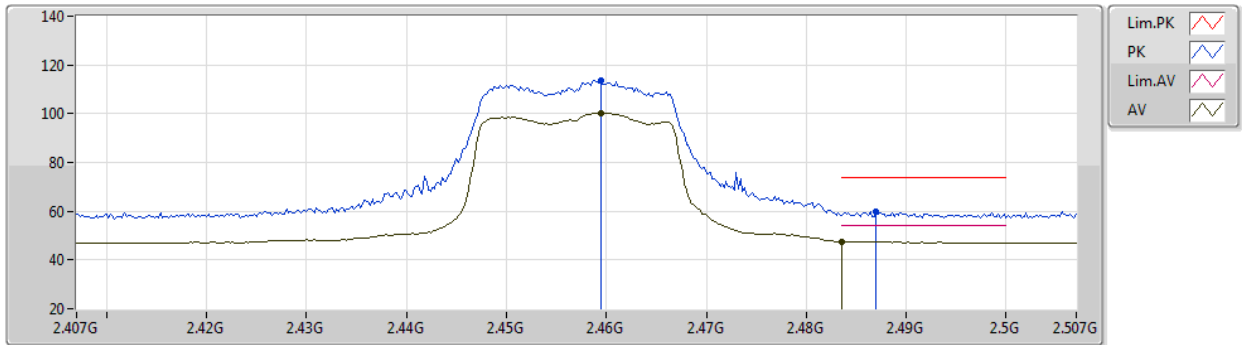
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4626G	124.99	Inf	-Inf	93.66	3	Vertical	345	1.46	-	27.67	3.66	-
AV	2.4628G	111.68	Inf	-Inf	80.35	3	Vertical	345	1.46	-	27.67	3.66	-
PK	2.4842G	69.04	74.00	-4.96	37.73	3	Vertical	345	1.46	-	27.63	3.68	-
AV	2.4835G	53.48	54.00	-0.52	22.17	3	Vertical	345	1.46	-	27.63	3.68	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2457MHz_TX



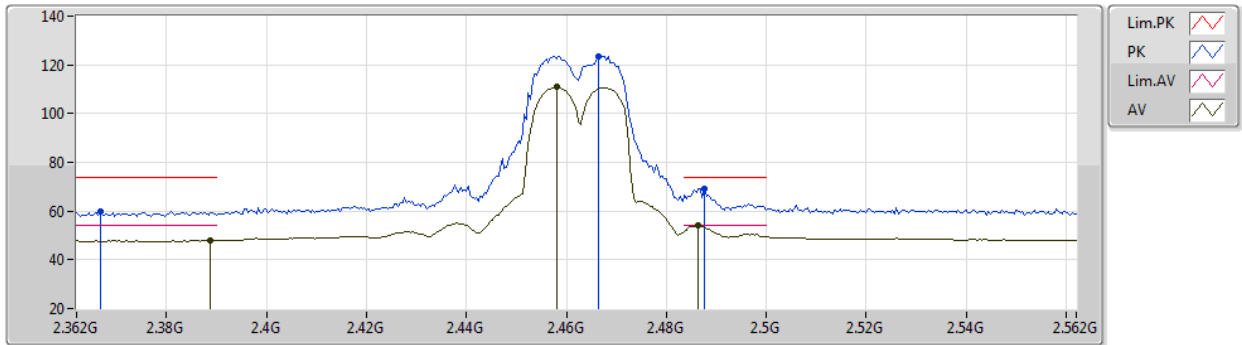
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Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4594G	113.48	Inf	-Inf	82.14	3	Horizontal	340	1.77	-	27.68	3.66	-
AV	2.4594G	100.21	Inf	-Inf	68.87	3	Horizontal	340	1.77	-	27.68	3.66	-
PK	2.487G	59.74	74.00	-14.26	28.42	3	Horizontal	340	1.77	-	27.63	3.69	-
AV	2.4836G	47.49	54.00	-6.51	16.18	3	Horizontal	340	1.77	-	27.63	3.68	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



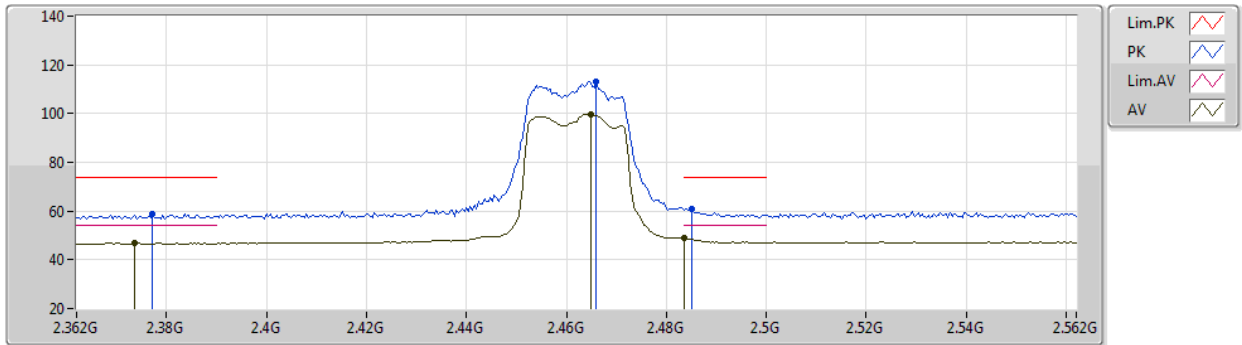
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3668G	59.84	74.00	-14.16	28.43	3	Vertical	344	1.45	-	27.83	3.58	-
AV	2.3888G	47.97	54.00	-6.03	16.57	3	Vertical	344	1.45	-	27.81	3.59	-
PK	2.4664G	123.44	Inf	-Inf	92.10	3	Vertical	344	1.45	-	27.67	3.67	-
AV	2.458G	110.83	Inf	-Inf	79.49	3	Vertical	344	1.45	-	27.68	3.66	-
PK	2.4876G	68.98	74.00	-5.02	37.67	3	Vertical	344	1.45	-	27.62	3.69	-
AV	2.4864G	53.92	54.00	-0.08	22.60	3	Vertical	344	1.45	-	27.63	3.69	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



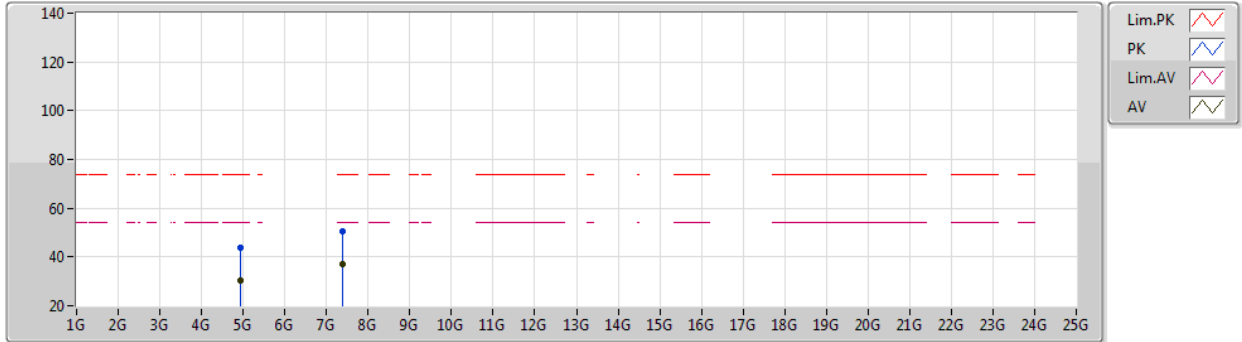
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3772G	58.78	74.00	-15.22	27.37	3	Horizontal	340	1.79	-	27.82	3.59	-
AV	2.3736G	46.95	54.00	-7.05	15.53	3	Horizontal	340	1.79	-	27.83	3.59	-
PK	2.466G	113.25	Inf	-Inf	81.91	3	Horizontal	340	1.79	-	27.67	3.67	-
AV	2.4648G	99.83	Inf	-Inf	68.50	3	Horizontal	340	1.79	-	27.67	3.66	-
PK	2.4852G	61.11	74.00	-12.89	29.79	3	Horizontal	340	1.79	-	27.63	3.69	-
AV	2.4835G	48.96	54.00	-5.04	17.65	3	Horizontal	340	1.79	-	27.63	3.68	-

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



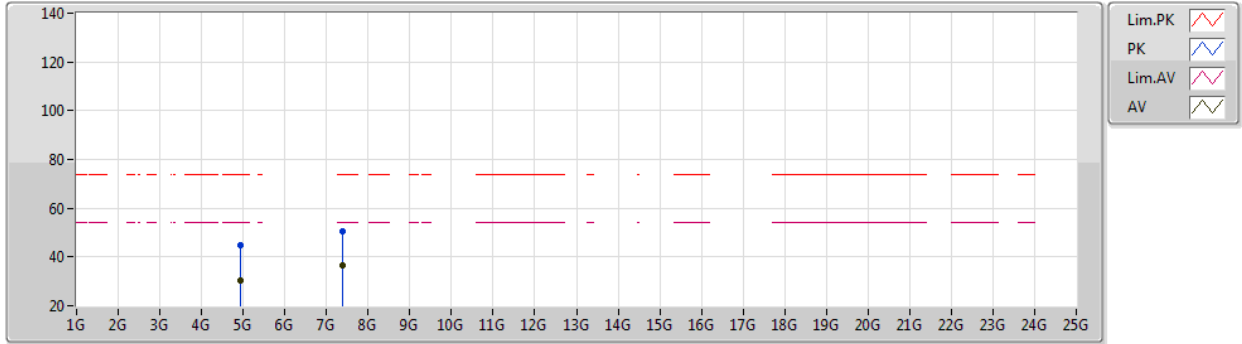
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92541G	43.64	74.00	-30.36	40.61	3	Vertical	226	1.96	-	31.43	6.34	34.74
AV	4.92616G	30.59	54.00	-23.41	27.56	3	Vertical	226	1.96	-	31.43	6.34	34.74
PK	7.38627G	50.39	74.00	-23.61	40.98	3	Vertical	314	1.36	-	36.67	7.79	35.05
AV	7.38468G	37.12	54.00	-16.88	27.71	3	Vertical	314	1.36	-	36.67	7.79	35.05

802.11ax HEW20_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



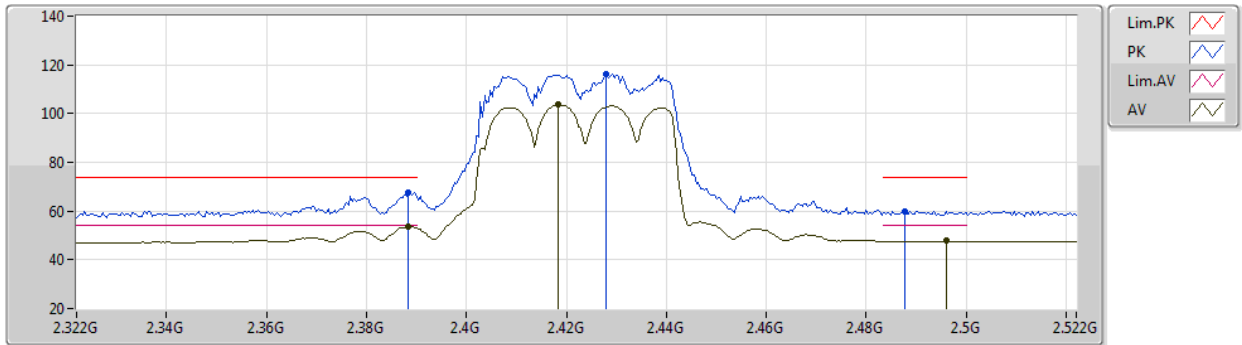
EUT Y_2TX
Setting 23.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92642G	45.05	74.00	-28.95	42.02	3	Horizontal	308	2.58	-	31.43	6.34	34.74
AV	4.92488G	30.09	54.00	-23.91	27.07	3	Horizontal	308	2.58	-	31.42	6.34	34.74
PK	7.3851G	50.44	74.00	-23.56	41.03	3	Horizontal	111	1.92	-	36.67	7.79	35.05
AV	7.38491G	36.68	54.00	-17.32	27.27	3	Horizontal	111	1.92	-	36.67	7.79	35.05

802.11ax HEW40_Nss1,(MCS0)_2TX

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2422MHz_TX



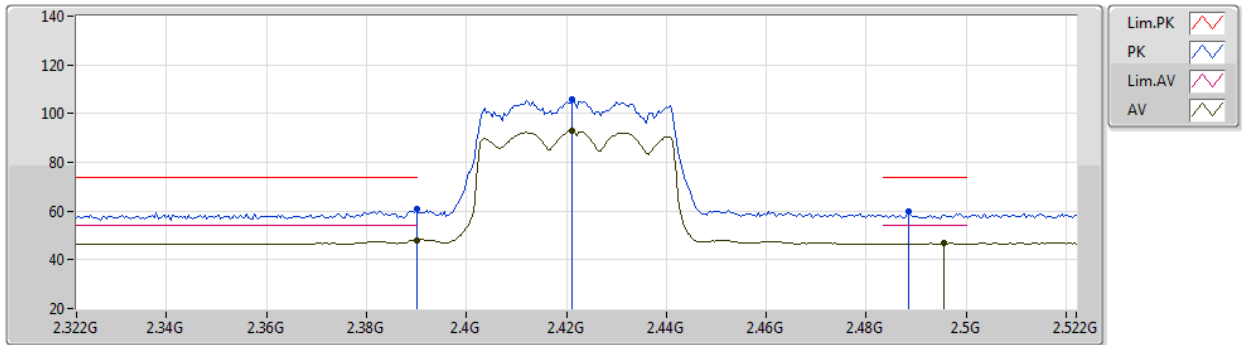
EUT Y_2TX
Setting 19
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	67.54	74.00	-6.46	36.14	3	Vertical	337	1.33	-	27.81	3.59	-
AV	2.3884G	53.66	54.00	-0.34	22.26	3	Vertical	337	1.33	-	27.81	3.59	-
PK	2.428G	116.33	Inf	-Inf	84.96	3	Vertical	337	1.33	-	27.74	3.63	-
AV	2.4184G	103.73	Inf	-Inf	72.35	3	Vertical	337	1.33	-	27.76	3.62	-
PK	2.4876G	59.83	74.00	-14.17	28.52	3	Vertical	337	1.33	-	27.62	3.69	-
AV	2.496G	47.77	54.00	-6.23	16.46	3	Vertical	337	1.33	-	27.61	3.70	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2422MHz_TX



EUT Y_2TX
Setting 19
03-B-M-1

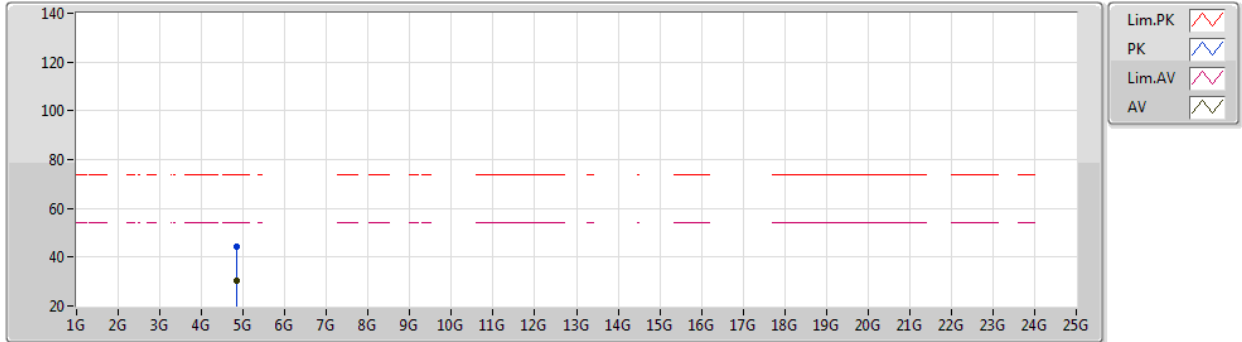
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	61.05	74.00	-12.95	29.64	3	Horizontal	4	1.06	-	27.81	3.60	-
AV	2.39G	48.00	54.00	-6.00	16.59	3	Horizontal	4	1.06	-	27.81	3.60	-
PK	2.4212G	105.89	Inf	-Inf	74.51	3	Horizontal	4	1.06	-	27.76	3.62	-
AV	2.4212G	93.04	Inf	-Inf	61.66	3	Horizontal	4	1.06	-	27.76	3.62	-
PK	2.4884G	59.83	74.00	-14.17	28.52	3	Horizontal	4	1.06	-	27.62	3.69	-
AV	2.4956G	46.66	54.00	-7.34	15.35	3	Horizontal	4	1.06	-	27.61	3.70	-



802.11ax HEW40_Nss1,(MCS0)_2TX

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2422MHz_TX



EUT Y_2TX
Setting 19
03-B-M-1

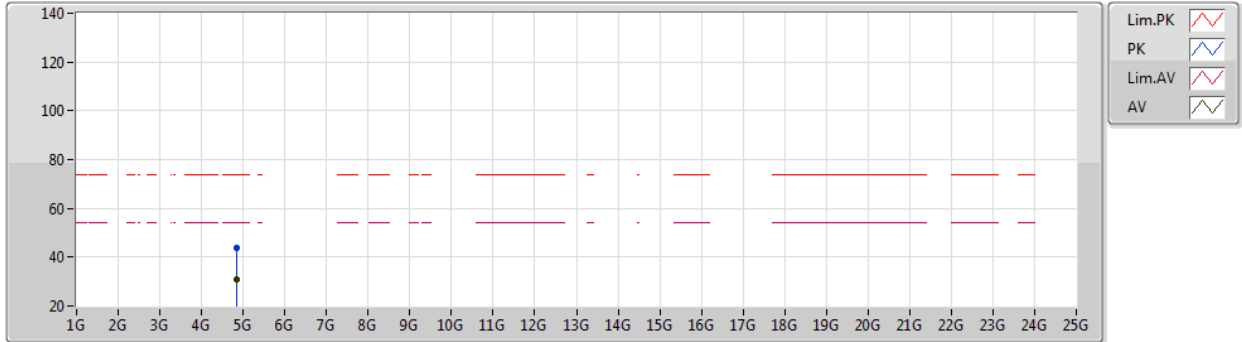
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PK	4.84548G	44.16	74.00	-29.84	41.28	3	Vertical	118	1.16	-	31.30	6.38	34.80
AV	4.84231G	30.55	54.00	-23.45	27.68	3	Vertical	118	1.16	-	31.30	6.38	34.81



802.11ax HEW40_Nss1,(MCS0)_2TX

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2422MHz_TX



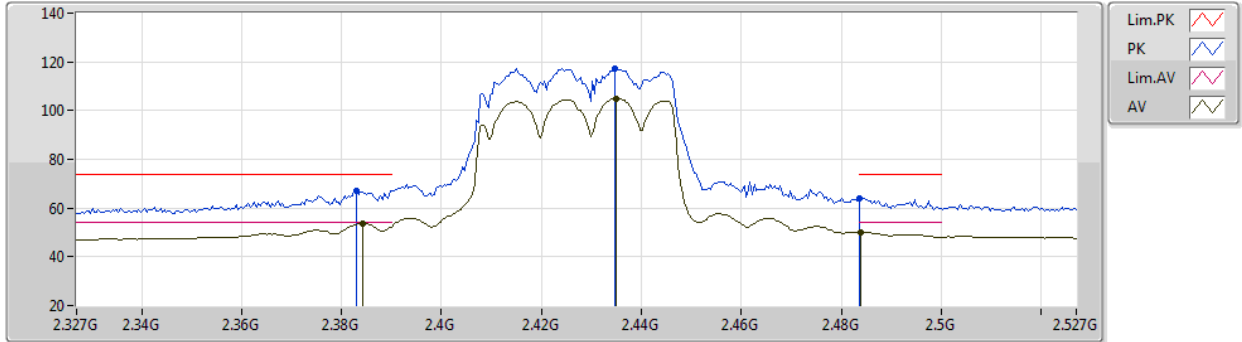
EUT Y_2TX
Setting 19
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84402G	43.81	74.00	-30.19	40.93	3	Horizontal	29	2.81	-	31.30	6.38	34.80
AV	4.84224G	30.91	54.00	-23.09	28.04	3	Horizontal	29	2.81	-	31.30	6.38	34.81

802.11ax HEW40_Nss1,(MCS0)_2TX

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2427MHz_TX



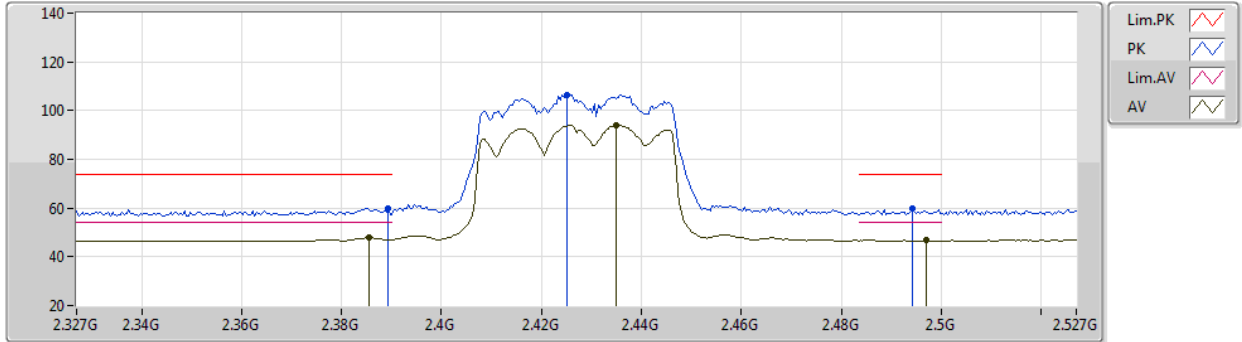
EUT Y_2TX
Setting 20
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.383G	67.13	74.00	-6.87	35.72	3	Vertical	331	1.27	-	27.82	3.59	-
AV	2.3842G	53.66	54.00	-0.34	22.25	3	Vertical	331	1.27	-	27.82	3.59	-
PK	2.4346G	117.18	Inf	-Inf	85.82	3	Vertical	331	1.27	-	27.73	3.63	-
AV	2.435G	104.90	Inf	-Inf	73.53	3	Vertical	331	1.27	-	27.73	3.64	-
PK	2.4835G	63.93	74.00	-10.07	32.62	3	Vertical	331	1.27	-	27.63	3.68	-
AV	2.4838G	50.24	54.00	-3.76	18.93	3	Vertical	331	1.27	-	27.63	3.68	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2427MHz_TX



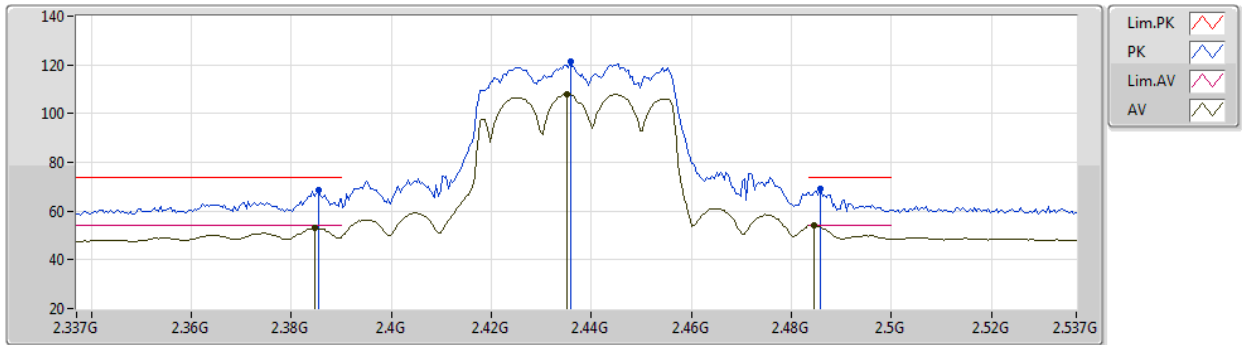
EUT Y_2TX
Setting 20
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	59.76	74.00	-14.24	28.36	3	Horizontal	7	1.18	-	27.81	3.59	-
AV	2.3854G	47.83	54.00	-6.17	16.43	3	Horizontal	7	1.18	-	27.81	3.59	-
PK	2.425G	106.56	Inf	-Inf	75.19	3	Horizontal	7	1.18	-	27.75	3.62	-
AV	2.435G	93.87	Inf	-Inf	62.50	3	Horizontal	7	1.18	-	27.73	3.64	-
PK	2.4942G	59.72	74.00	-14.28	28.42	3	Horizontal	7	1.18	-	27.61	3.69	-
AV	2.497G	46.71	54.00	-7.29	15.40	3	Horizontal	7	1.18	-	27.61	3.70	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



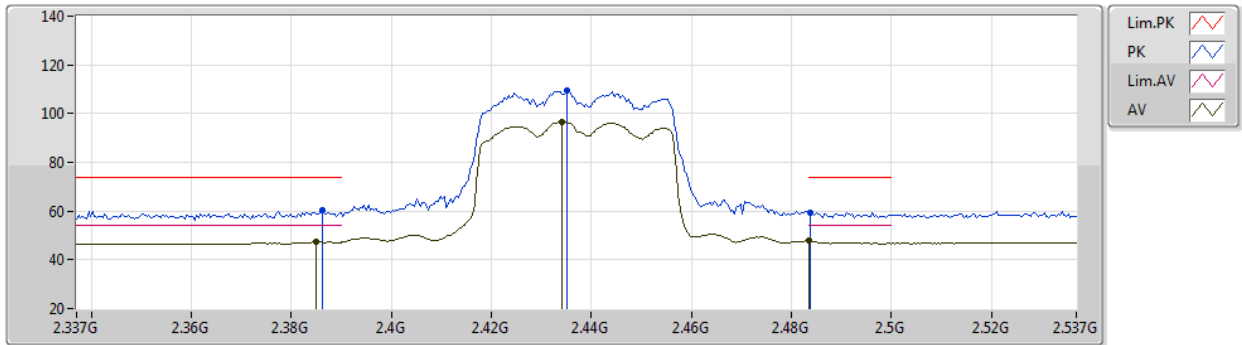
EUT Y_2TX
Setting 23
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	68.57	74.00	-5.43	37.17	3	Vertical	330	1.27	-	27.81	3.59	-
AV	2.3846G	52.97	54.00	-1.03	21.56	3	Vertical	330	1.27	-	27.82	3.59	-
PK	2.4358G	121.50	Inf	-Inf	90.13	3	Vertical	330	1.27	-	27.73	3.64	-
AV	2.435G	108.00	Inf	-Inf	76.63	3	Vertical	330	1.27	-	27.73	3.64	-
PK	2.4858G	68.90	74.00	-5.10	37.58	3	Vertical	330	1.27	-	27.63	3.69	-
AV	2.4846G	53.98	54.00	-0.02	22.67	3	Vertical	330	1.27	-	27.63	3.68	-

802.11ax HEW40_Nss1,(MCS0)_2TX

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2437MHz_TX



EUT Y_2TX
Setting 23
03-B-M-1

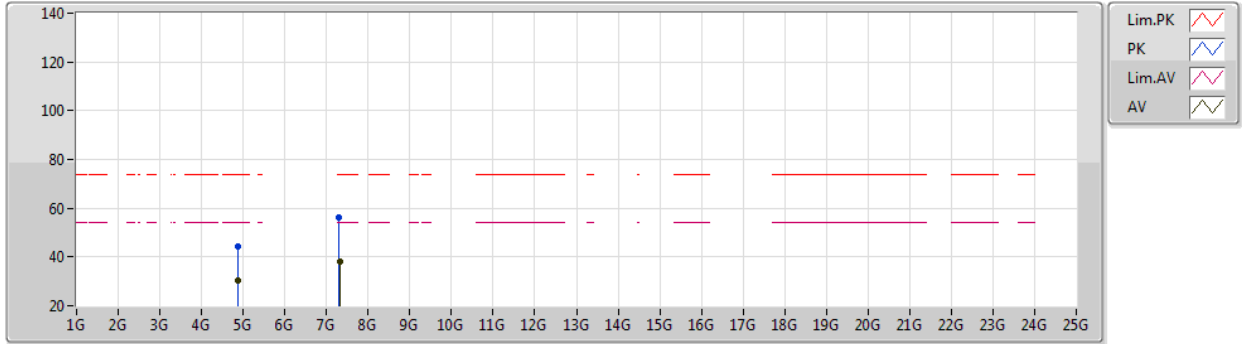
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	60.09	74.00	-13.91	28.69	3	Horizontal	7	1.80	-	27.81	3.59	-
AV	2.385G	47.35	54.00	-6.65	15.94	3	Horizontal	7	1.80	-	27.82	3.59	-
PK	2.435G	109.43	Inf	-Inf	78.06	3	Horizontal	7	1.80	-	27.73	3.64	-
AV	2.4342G	96.68	Inf	-Inf	65.32	3	Horizontal	7	1.80	-	27.73	3.63	-
PK	2.4838G	59.29	74.00	-14.71	27.98	3	Horizontal	7	1.80	-	27.63	3.68	-
AV	2.4835G	47.76	54.00	-6.24	16.45	3	Horizontal	7	1.80	-	27.63	3.68	-



802.11ax HEW40_Nss1,(MCS0)_2TX

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2437MHz_TX



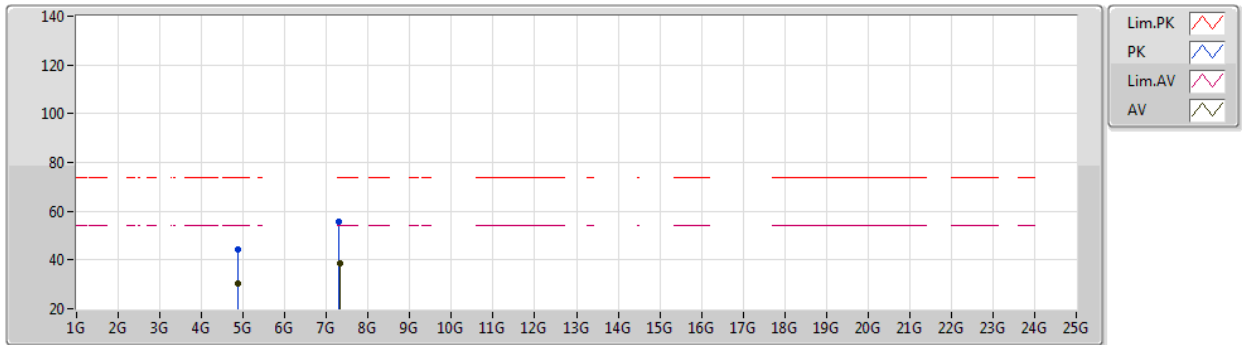
EUT Y_2TX
Setting 23
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87179G	44.11	74.00	-29.89	41.23	3	Vertical	349	2.04	-	31.30	6.36	34.78
AV	4.87404G	30.27	54.00	-23.73	27.39	3	Vertical	349	2.04	-	31.30	6.36	34.78
PK	7.30973G	56.03	74.00	-17.97	46.85	3	Vertical	13	2.44	-	36.52	7.72	35.06
AV	7.31036G	38.25	54.00	-15.75	29.07	3	Vertical	13	2.44	-	36.52	7.72	35.06

802.11ax HEW40_Nss1,(MCS0)_2TX

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2437MHz_TX



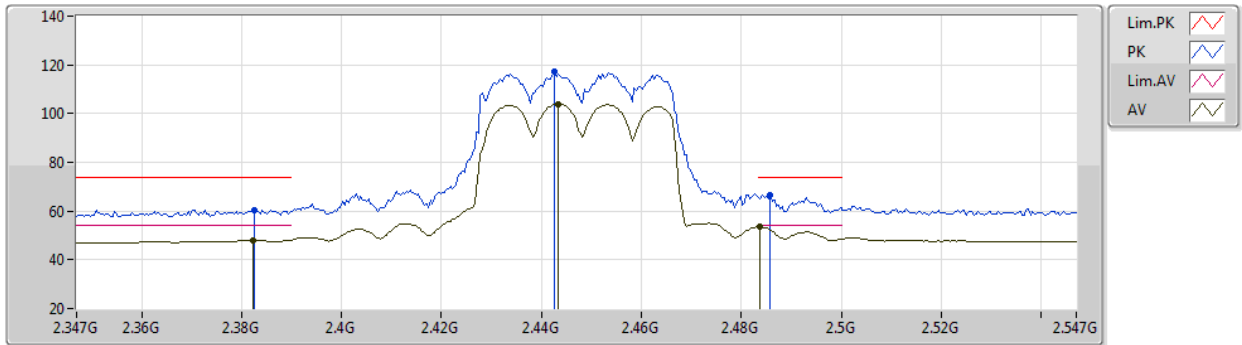
EUT Y_2TX
Setting 23
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87367G	44.56	74.00	-29.44	41.68	3	Horizontal	163	2.49	-	31.30	6.36	34.78
AV	4.87263G	30.59	54.00	-23.41	27.71	3	Horizontal	163	2.49	-	31.30	6.36	34.78
PK	7.31004G	55.46	74.00	-18.54	46.28	3	Horizontal	156	1.83	-	36.52	7.72	35.06
AV	7.31073G	38.64	54.00	-15.36	29.46	3	Horizontal	156	1.83	-	36.52	7.72	35.06

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2447MHz_TX



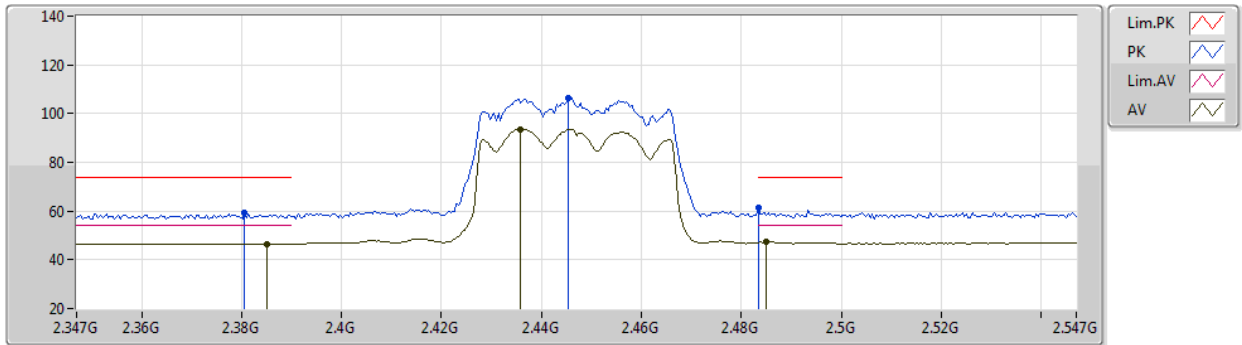
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3826G	60.60	74.00	-13.40	29.19	3	Vertical	342	1.23	-	27.82	3.59	-
AV	2.3822G	48.12	54.00	-5.88	16.71	3	Vertical	342	1.23	-	27.82	3.59	-
PK	2.4426G	117.28	Inf	-Inf	85.93	3	Vertical	342	1.23	-	27.71	3.64	-
AV	2.4434G	103.99	Inf	-Inf	72.64	3	Vertical	342	1.23	-	27.71	3.64	-
PK	2.4858G	66.55	74.00	-7.45	35.23	3	Vertical	342	1.23	-	27.63	3.69	-
AV	2.4838G	53.51	54.00	-0.49	22.20	3	Vertical	342	1.23	-	27.63	3.68	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2447MHz_TX



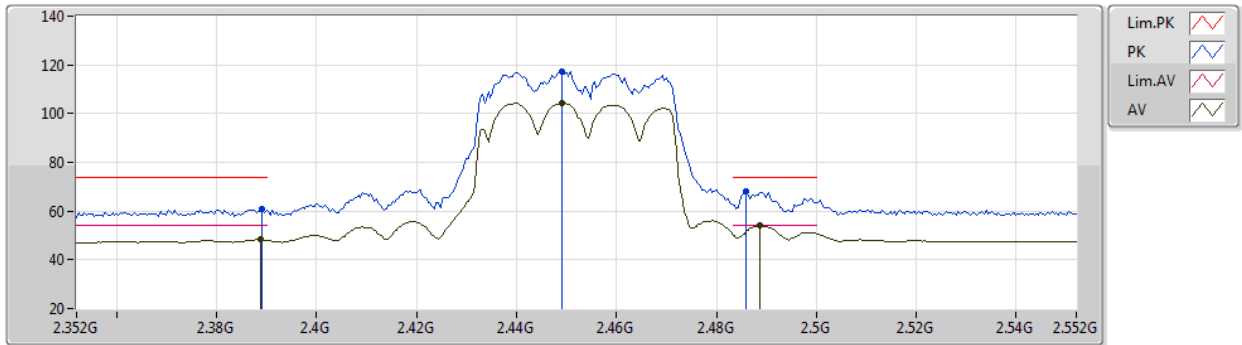
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3806G	59.08	74.00	-14.92	27.67	3	Horizontal	4	1.23	-	27.82	3.59	-
AV	2.385G	46.63	54.00	-7.37	15.22	3	Horizontal	4	1.23	-	27.82	3.59	-
PK	2.4454G	106.19	Inf	-Inf	74.83	3	Horizontal	4	1.23	-	27.71	3.65	-
AV	2.4358G	93.65	Inf	-Inf	62.28	3	Horizontal	4	1.23	-	27.73	3.64	-
PK	2.4835G	61.27	74.00	-12.73	29.96	3	Horizontal	4	1.23	-	27.63	3.68	-
AV	2.485G	47.34	54.00	-6.66	16.02	3	Horizontal	4	1.23	-	27.63	3.69	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



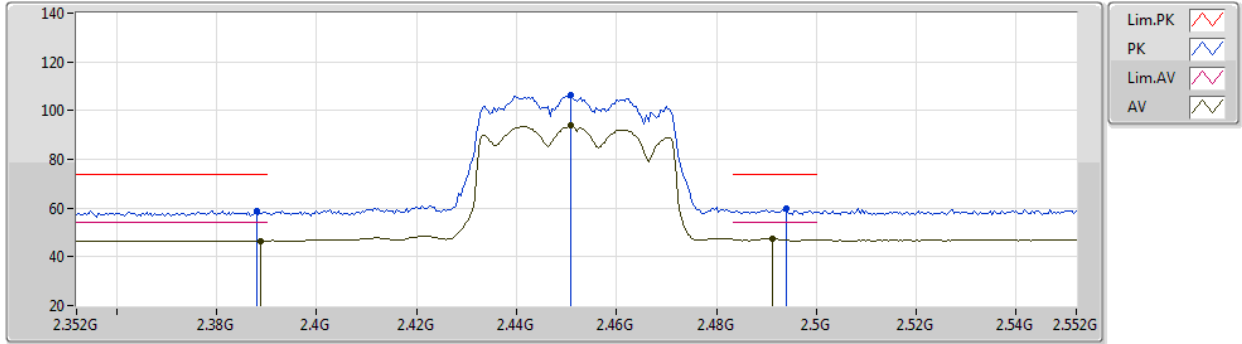
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	60.66	74.00	-13.34	29.26	3	Vertical	335	1.29	-	27.81	3.59	-
AV	2.3888G	48.21	54.00	-5.79	16.81	3	Vertical	335	1.29	-	27.81	3.59	-
PK	2.4492G	117.08	Inf	-Inf	85.73	3	Vertical	335	1.29	-	27.70	3.65	-
AV	2.4492G	104.38	Inf	-Inf	73.03	3	Vertical	335	1.29	-	27.70	3.65	-
PK	2.486G	67.86	74.00	-6.14	36.54	3	Vertical	335	1.29	-	27.63	3.69	-
AV	2.4888G	53.98	54.00	-0.02	22.67	3	Vertical	335	1.29	-	27.62	3.69	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



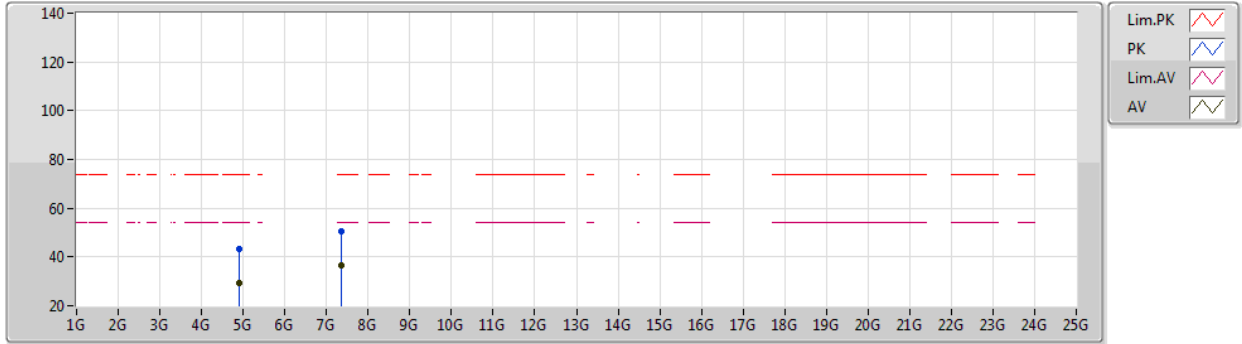
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	59.05	74.00	-14.95	27.65	3	Horizontal	5	1.20	-	27.81	3.59	-
AV	2.3888G	46.59	54.00	-7.41	15.19	3	Horizontal	5	1.20	-	27.81	3.59	-
PK	2.4508G	106.23	Inf	-Inf	74.88	3	Horizontal	5	1.20	-	27.70	3.65	-
AV	2.4508G	93.73	Inf	-Inf	62.38	3	Horizontal	5	1.20	-	27.70	3.65	-
PK	2.494G	59.73	74.00	-14.27	28.43	3	Horizontal	5	1.20	-	27.61	3.69	-
AV	2.4912G	47.35	54.00	-6.65	16.04	3	Horizontal	5	1.20	-	27.62	3.69	-

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



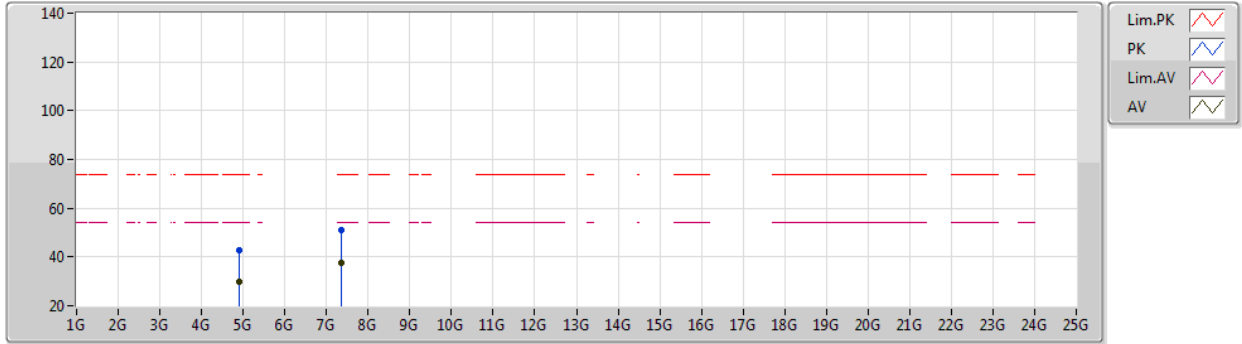
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90193G	43.38	74.00	-30.62	40.48	3	Vertical	108	1.35	-	31.31	6.35	34.76
AV	4.90157G	29.46	54.00	-24.54	26.56	3	Vertical	108	1.35	-	31.31	6.35	34.76
PK	7.35394G	50.41	74.00	-23.59	41.09	3	Vertical	23	1.40	-	36.61	7.76	35.05
AV	7.35734G	36.81	54.00	-17.19	27.49	3	Vertical	23	1.40	-	36.61	7.76	35.05

802.11ax HEW40_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



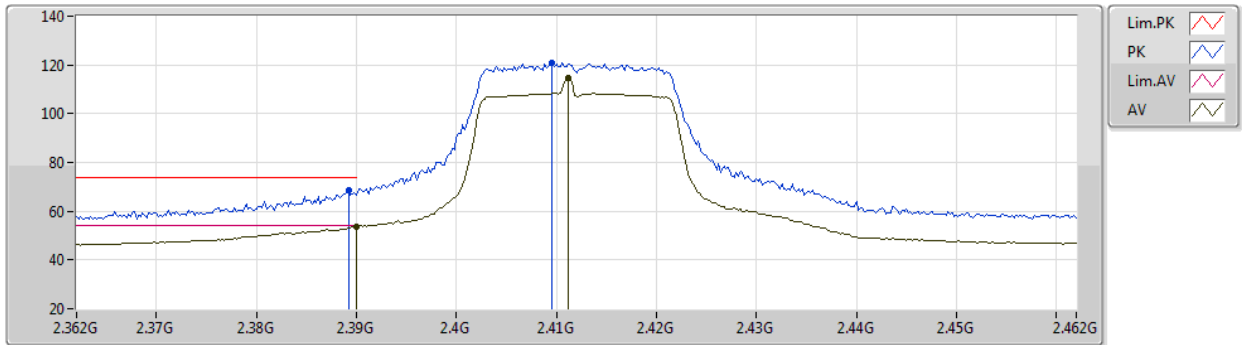
EUT Y_2TX
Setting 19.5
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9046G	42.69	74.00	-31.31	39.78	3	Horizontal	222	2.44	-	31.32	6.35	34.76
AV	4.90561G	29.96	54.00	-24.04	27.03	3	Horizontal	222	2.44	-	31.33	6.35	34.75
PK	7.35505G	51.05	74.00	-22.95	41.73	3	Horizontal	93	1.08	-	36.61	7.76	35.05
AV	7.35484G	37.35	54.00	-16.65	28.03	3	Horizontal	93	1.08	-	36.61	7.76	35.05

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



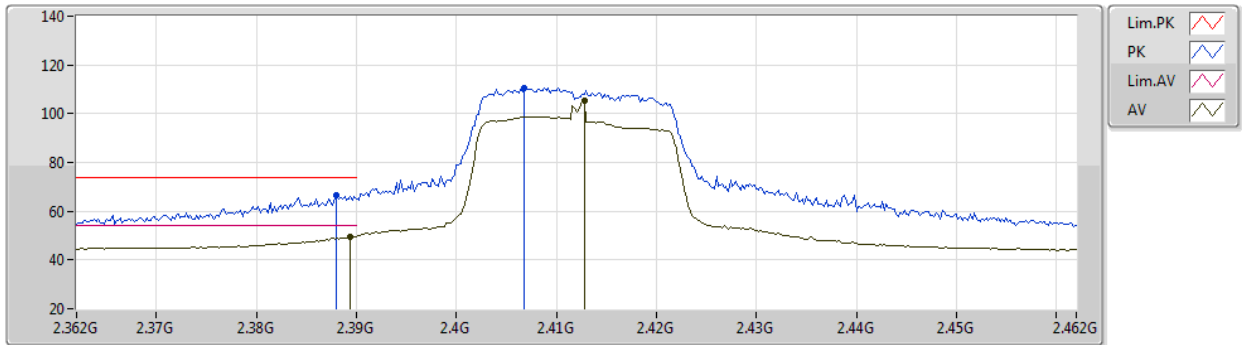
EUT Y_2TX
Setting 27
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	68.46	74.00	-5.54	37.06	3	Vertical	290	1.43	-	27.81	3.59	-
AV	2.39G	53.71	54.00	-0.29	22.30	3	Vertical	290	1.43	-	27.81	3.60	-
PK	2.4096G	121.01	Inf	-Inf	89.62	3	Vertical	290	1.43	-	27.78	3.61	-
AV	2.4112G	114.44	Inf	-Inf	83.05	3	Vertical	290	1.43	-	27.78	3.61	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



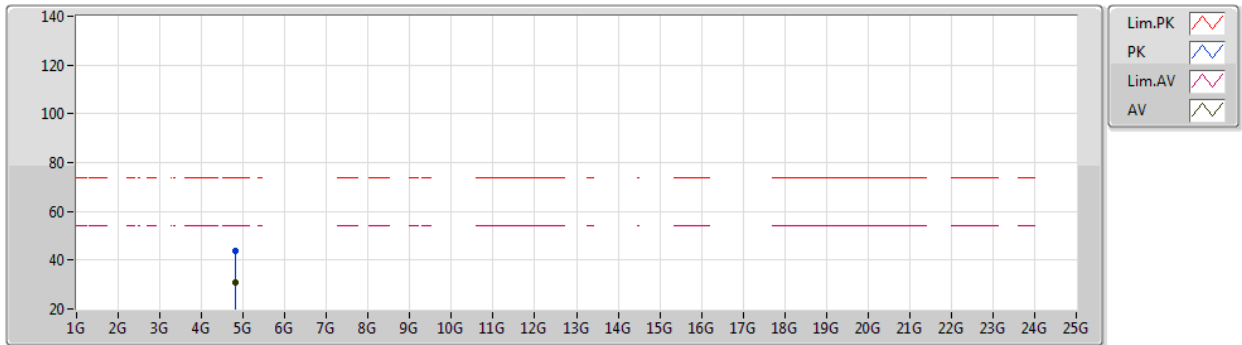
EUT Y_2TX
Setting 27
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	66.53	74.00	-7.47	35.13	3	Horizontal	359	1.46	-	27.81	3.59	-
AV	2.3894G	49.74	54.00	-4.26	18.34	3	Horizontal	359	1.46	-	27.81	3.59	-
PK	2.4068G	110.64	Inf	-Inf	79.24	3	Horizontal	359	1.46	-	27.79	3.61	-
AV	2.4128G	105.41	Inf	-Inf	74.03	3	Horizontal	359	1.46	-	27.77	3.61	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



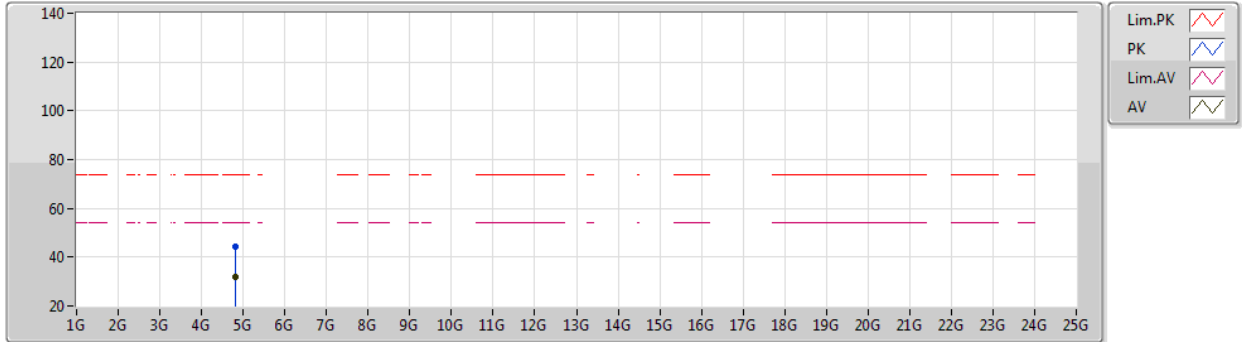
EUT Y_2TX
Setting 27
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82167G	43.59	74.00	-30.41	40.72	3	Vertical	149	1.77	-	31.30	6.39	34.82
AV	4.82294G	30.84	54.00	-23.16	27.97	3	Vertical	149	1.77	-	31.30	6.39	34.82

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2412MHz_TX



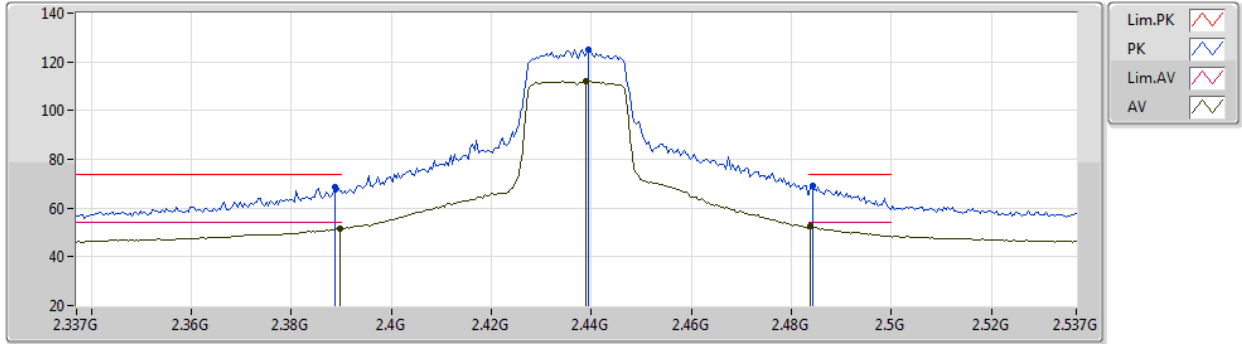
EUT Y_2TX
Setting 27
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82558G	44.09	74.00	-29.91	41.22	3	Horizontal	151	1.75	-	31.30	6.39	34.82
AV	4.82212G	31.95	54.00	-22.05	29.08	3	Horizontal	151	1.75	-	31.30	6.39	34.82

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



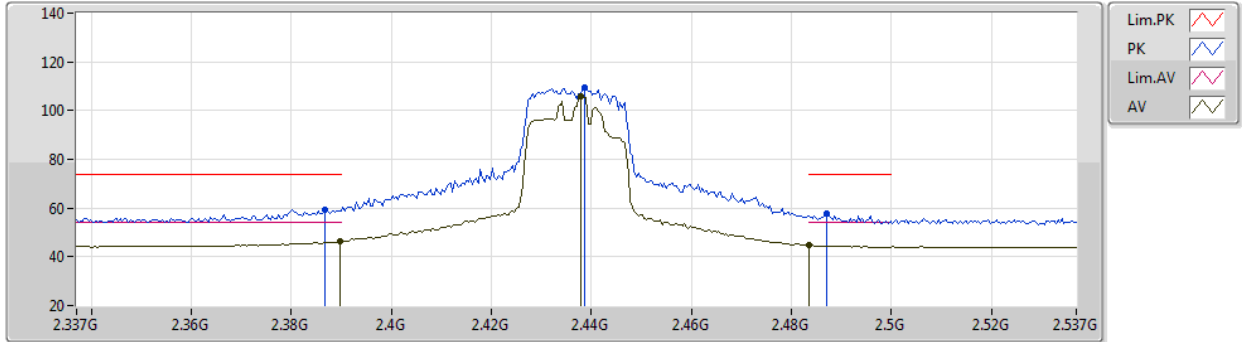
EUT Y_2TX
Setting 28
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	68.45	74.00	-5.55	37.05	3	Vertical	168	1.04	-	27.81	3.59	-
AV	2.3898G	51.51	54.00	-2.49	20.11	3	Vertical	168	1.04	-	27.81	3.59	-
PK	2.4394G	125.18	Inf	-Inf	93.82	3	Vertical	168	1.04	-	27.72	3.64	-
AV	2.439G	111.92	Inf	-Inf	80.56	3	Vertical	168	1.04	-	27.72	3.64	-
PK	2.4842G	69.15	74.00	-4.85	37.84	3	Vertical	168	1.04	-	27.63	3.68	-
AV	2.4838G	52.34	54.00	-1.66	21.03	3	Vertical	168	1.04	-	27.63	3.68	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



EUT Y_2TX
Setting 28
03-B-M-1

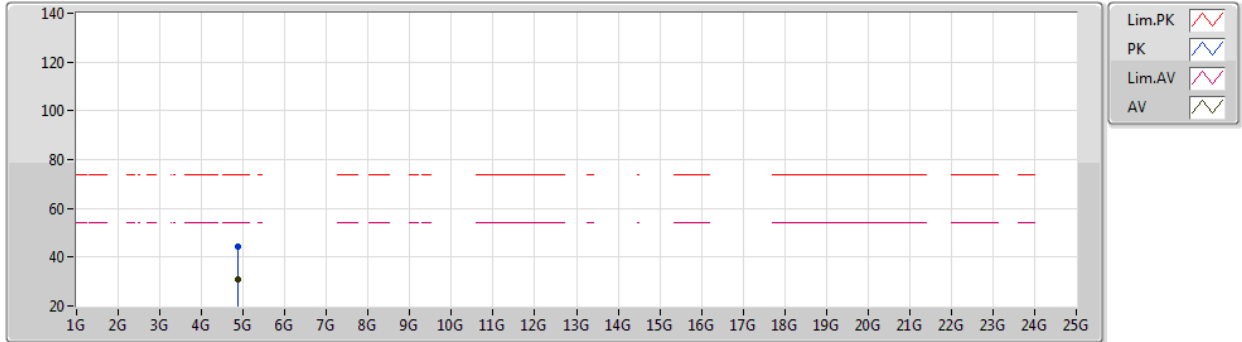
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	59.47	74.00	-14.53	28.07	3	Horizontal	0	1.90	-	27.81	3.59	-
AV	2.3898G	46.45	54.00	-7.55	15.05	3	Horizontal	0	1.90	-	27.81	3.59	-
PK	2.4386G	109.37	Inf	-Inf	78.01	3	Horizontal	0	1.90	-	27.72	3.64	-
AV	2.4378G	106.11	Inf	-Inf	74.75	3	Horizontal	0	1.90	-	27.72	3.64	-
PK	2.487G	58.00	74.00	-16.00	26.68	3	Horizontal	0	1.90	-	27.63	3.69	-
AV	2.4835G	44.65	54.00	-9.35	13.34	3	Horizontal	0	1.90	-	27.63	3.68	-



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



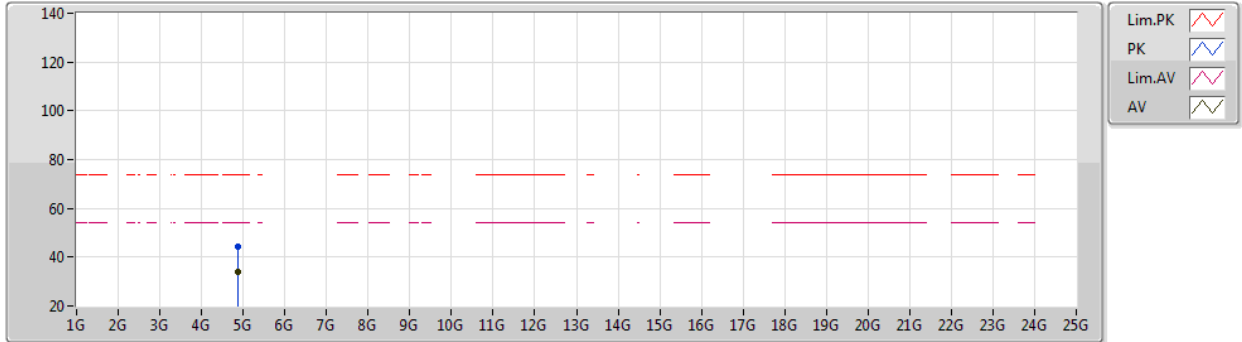
EUT Y_2TX
Setting 28
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87884G	44.46	74.00	-29.54	41.58	3	Vertical	22	2.07	-	31.30	6.36	34.78
AV	4.87634G	31.06	54.00	-22.94	28.18	3	Vertical	22	2.07	-	31.30	6.36	34.78

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



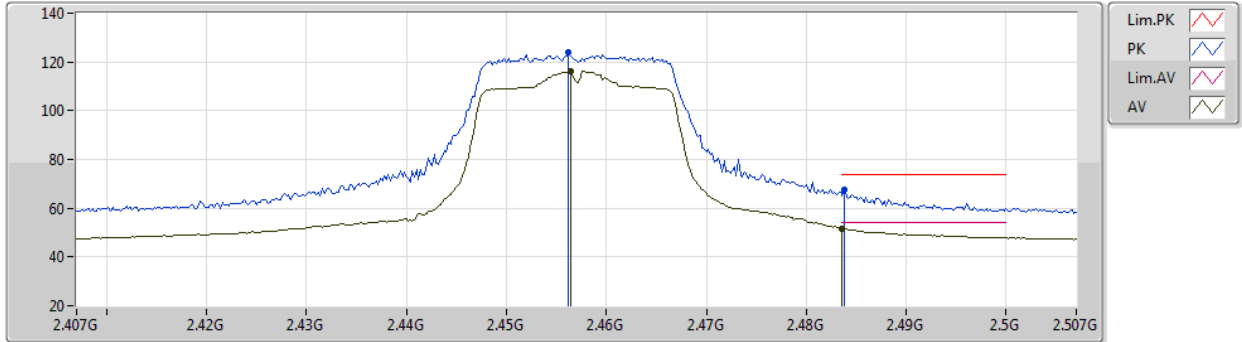
EUT Y_2TX
Setting 28
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87736G	44.35	74.00	-29.65	41.47	3	Horizontal	255	2.34	-	31.30	6.36	34.78
AV	4.87396G	34.00	54.00	-20.00	31.12	3	Horizontal	255	2.34	-	31.30	6.36	34.78

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2457MHz_TX



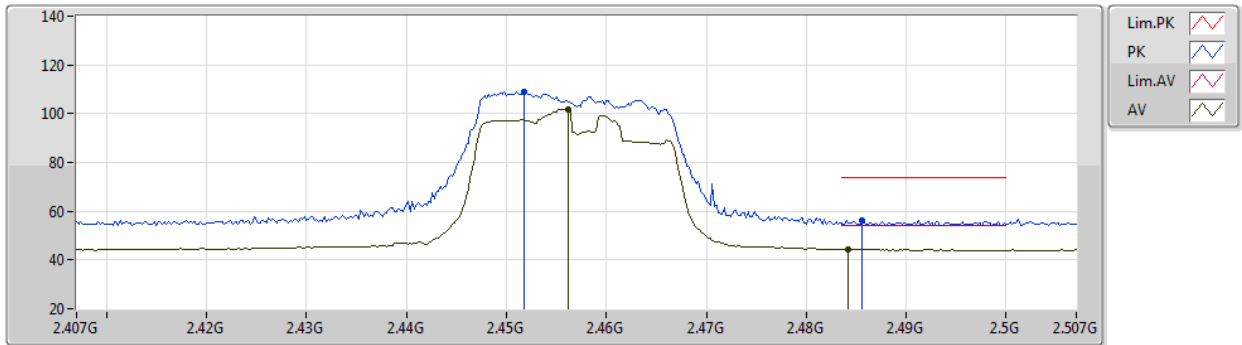
EUT Y_2TX
Setting 26
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4562G	123.78	Inf	-Inf	92.43	3	Vertical	165	1.38	-	27.69	3.66	-
AV	2.4564G	116.14	Inf	-Inf	84.79	3	Vertical	165	1.38	-	27.69	3.66	-
PK	2.4838G	67.60	74.00	-6.40	36.29	3	Vertical	165	1.38	-	27.63	3.68	-
AV	2.4835G	51.73	54.00	-2.27	20.42	3	Vertical	165	1.38	-	27.63	3.68	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2457MHz_TX



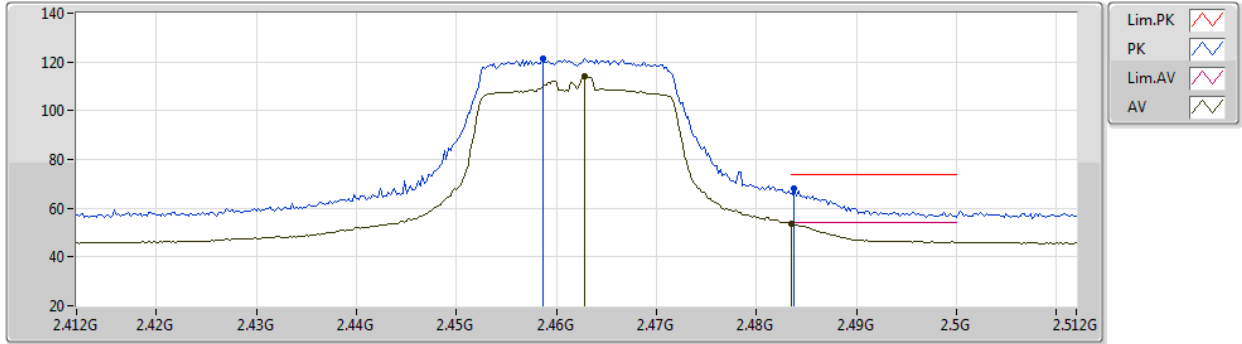
EUT Y_2TX
Setting 26
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4518G	109.21	Inf	-Inf	77.86	3	Horizontal	339	1.79	-	27.70	3.65	-
AV	2.4562G	101.93	Inf	-Inf	70.58	3	Horizontal	339	1.79	-	27.69	3.66	-
PK	2.4856G	56.12	74.00	-17.88	24.80	3	Horizontal	339	1.79	-	27.63	3.69	-
AV	2.4842G	44.44	54.00	-9.56	13.13	3	Horizontal	339	1.79	-	27.63	3.68	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



EUT Y_2TX
Setting 24
03-B-M-1

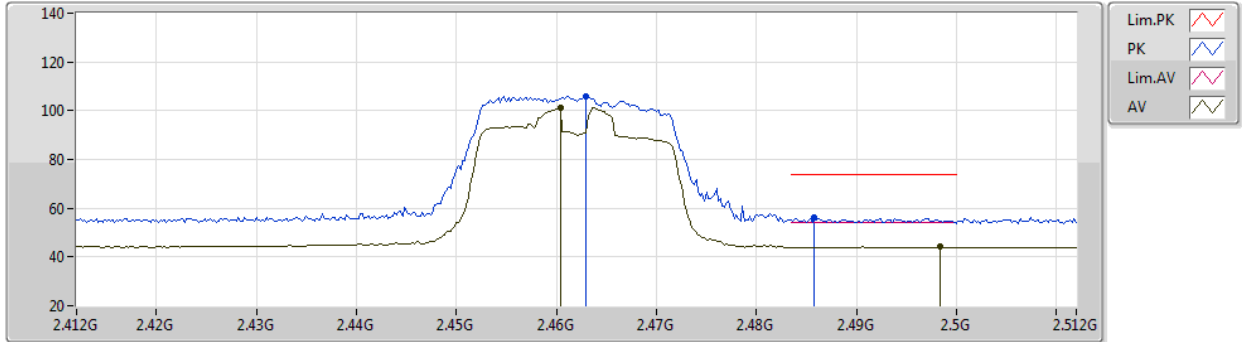
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4586G	121.31	Inf	-Inf	89.97	3	Vertical	167	1.40	-	27.68	3.66	-
AV	2.4628G	113.94	Inf	-Inf	82.61	3	Vertical	167	1.40	-	27.67	3.66	-
PK	2.4838G	68.24	74.00	-5.76	36.93	3	Vertical	167	1.40	-	27.63	3.68	-
AV	2.4835G	53.77	54.00	-0.23	22.46	3	Vertical	167	1.40	-	27.63	3.68	-



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



EUT Y_2TX
Setting 24
03-B-M-1

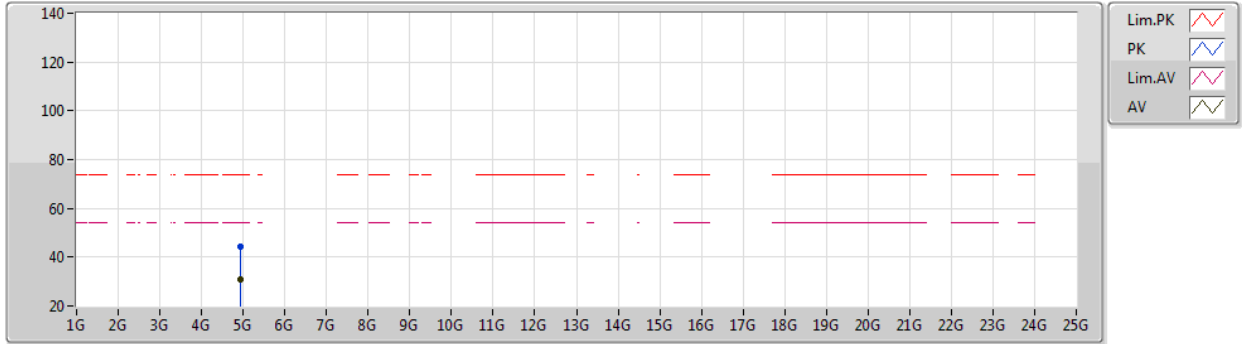
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	105.78	Inf	-Inf	74.45	3	Horizontal	4	1.57	-	27.67	3.66	-
AV	2.4604G	101.29	Inf	-Inf	69.95	3	Horizontal	4	1.57	-	27.68	3.66	-
PK	2.4858G	56.03	74.00	-17.97	24.71	3	Horizontal	4	1.57	-	27.63	3.69	-
AV	2.4984G	44.16	54.00	-9.84	12.86	3	Horizontal	4	1.57	-	27.60	3.70	-



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



EUT Y_2TX
Setting 24
03-B-M-1

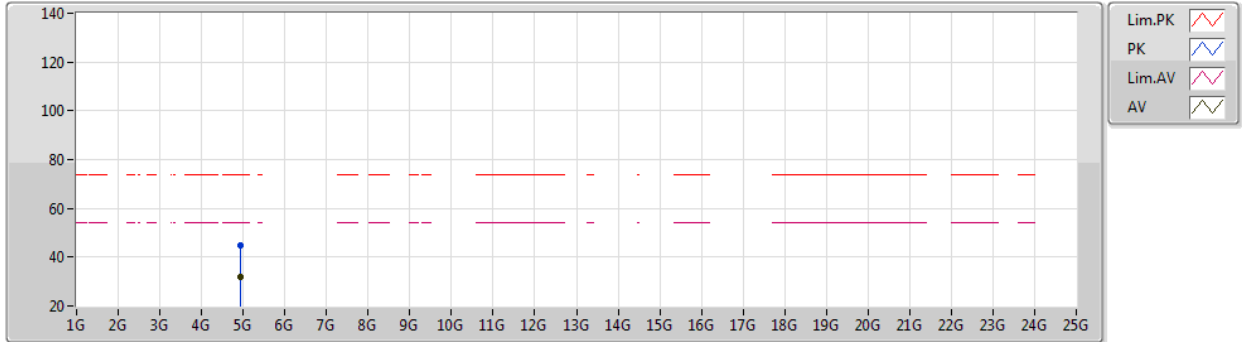
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92587G	44.10	74.00	-29.90	41.07	3	Vertical	104	1.68	-	31.43	6.34	34.74
AV	4.92621G	30.94	54.00	-23.06	27.91	3	Vertical	104	1.68	-	31.43	6.34	34.74



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

15/01/2020

2462MHz_TX



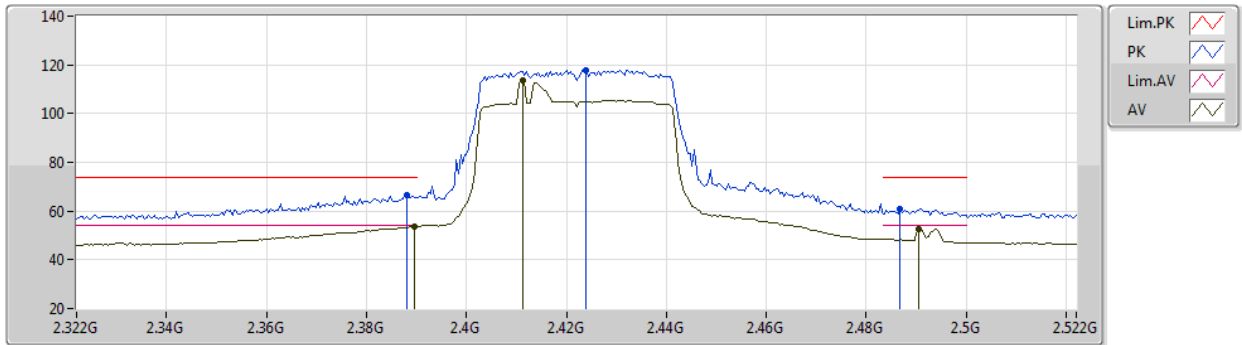
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92243G	44.72	74.00	-29.28	41.71	3	Horizontal	0	2.38	-	31.41	6.34	34.74
AV	4.92482G	31.78	54.00	-22.22	28.76	3	Horizontal	0	2.38	-	31.42	6.34	34.74

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2422MHz_TX



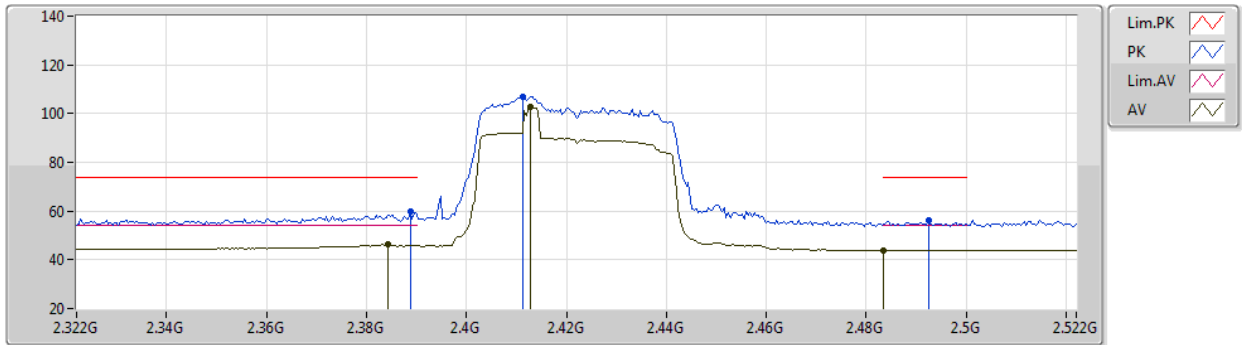
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	66.59	74.00	-7.41	35.19	3	Vertical	167	1.22	-	27.81	3.59	-
AV	2.3896G	53.70	54.00	-0.30	22.30	3	Vertical	167	1.22	-	27.81	3.59	-
PK	2.424G	117.88	Inf	-Inf	86.51	3	Vertical	167	1.22	-	27.75	3.62	-
AV	2.4112G	113.71	Inf	-Inf	82.32	3	Vertical	167	1.22	-	27.78	3.61	-
PK	2.4868G	60.81	74.00	-13.19	29.49	3	Vertical	167	1.22	-	27.63	3.69	-
AV	2.4904G	52.50	54.00	-1.50	21.19	3	Vertical	167	1.22	-	27.62	3.69	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2422MHz_TX



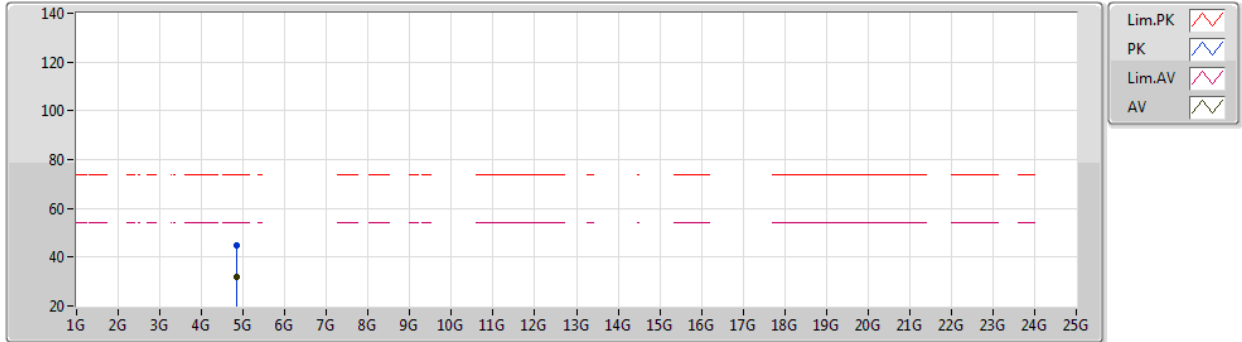
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	59.86	74.00	-14.14	28.46	3	Horizontal	360	1.31	-	27.81	3.59	-
AV	2.3844G	46.29	54.00	-7.71	14.88	3	Horizontal	360	1.31	-	27.82	3.59	-
PK	2.4112G	106.99	Inf	-Inf	75.60	3	Horizontal	360	1.31	-	27.78	3.61	-
AV	2.4128G	102.92	Inf	-Inf	71.54	3	Horizontal	360	1.31	-	27.77	3.61	-
PK	2.4924G	55.98	74.00	-18.02	24.67	3	Horizontal	360	1.31	-	27.62	3.69	-
AV	2.4835G	43.96	54.00	-10.04	12.65	3	Horizontal	360	1.31	-	27.63	3.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2422MHz_TX



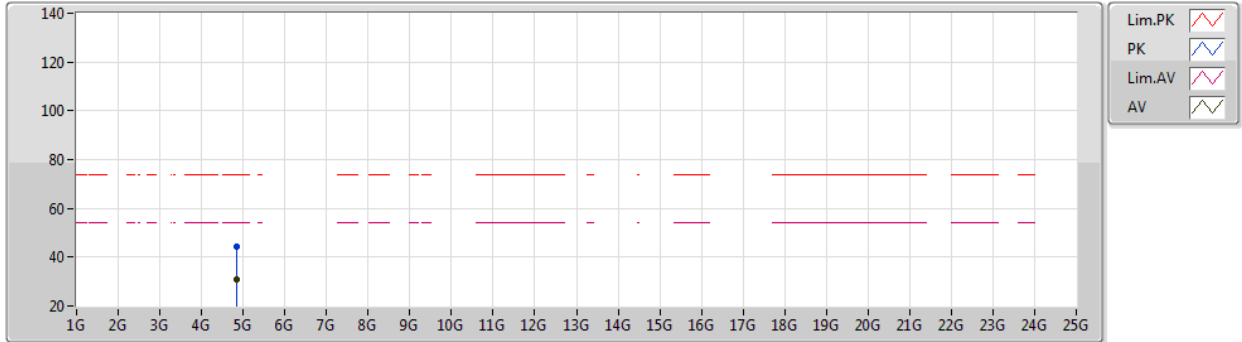
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84555G	44.97	74.00	-29.03	42.09	3	Vertical	319	1.24	-	31.30	6.38	34.80
AV	4.8431G	31.83	54.00	-22.17	28.96	3	Vertical	319	1.24	-	31.30	6.38	34.81

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2422MHz_TX



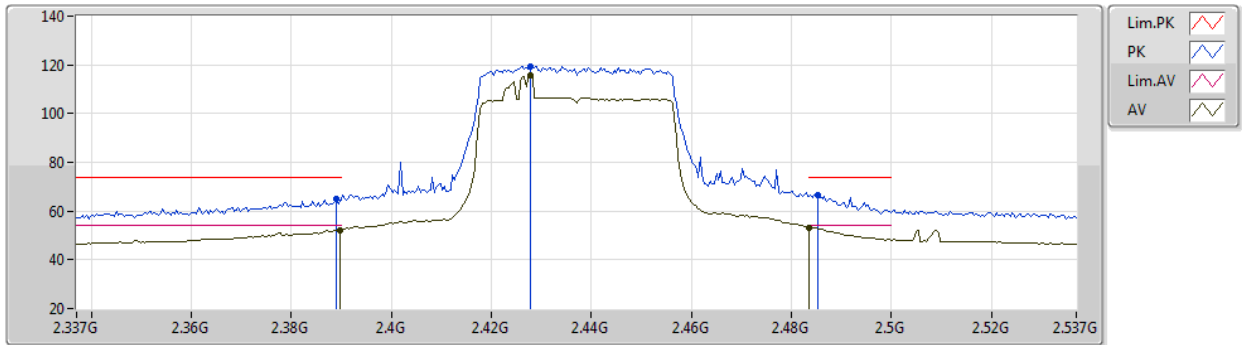
EUT Y_2TX
Setting 24
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84526G	44.35	74.00	-29.65	41.47	3	Horizontal	116	1.75	-	31.30	6.38	34.80
AV	4.84175G	31.05	54.00	-22.95	28.18	3	Horizontal	116	1.75	-	31.30	6.38	34.81

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



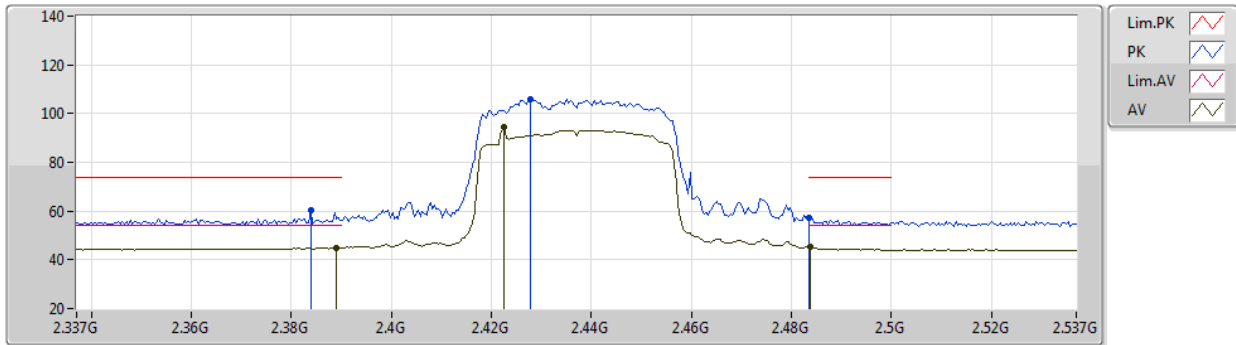
EUT Y_2TX
Setting 25
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	65.09	74.00	-8.91	33.69	3	Vertical	169	1.10	-	27.81	3.59	-
AV	2.3898G	52.10	54.00	-1.90	20.70	3	Vertical	169	1.10	-	27.81	3.59	-
PK	2.4278G	119.32	Inf	-Inf	87.95	3	Vertical	169	1.10	-	27.74	3.63	-
AV	2.4278G	115.45	Inf	-Inf	84.08	3	Vertical	169	1.10	-	27.74	3.63	-
PK	2.4854G	66.64	74.00	-7.36	35.32	3	Vertical	169	1.10	-	27.63	3.69	-
AV	2.4835G	53.28	54.00	-0.72	21.97	3	Vertical	169	1.10	-	27.63	3.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



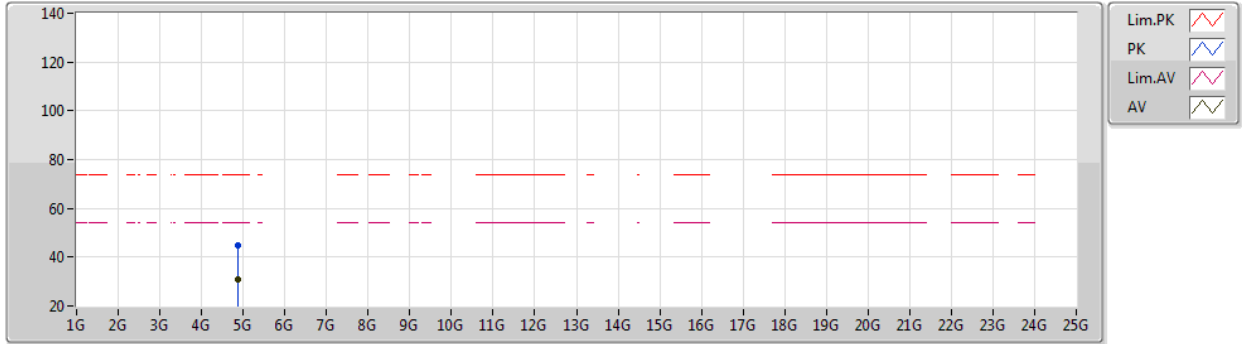
EUT Y_2TX
Setting 25
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3838G	60.56	74.00	-13.44	29.15	3	Horizontal	341	1.76	-	27.82	3.59	-
AV	2.389G	44.98	54.00	-9.02	13.58	3	Horizontal	341	1.76	-	27.81	3.59	-
PK	2.4278G	105.97	Inf	-Inf	74.60	3	Horizontal	341	1.76	-	27.74	3.63	-
AV	2.4226G	94.58	Inf	-Inf	63.21	3	Horizontal	341	1.76	-	27.75	3.62	-
PK	2.4835G	57.28	74.00	-16.72	25.97	3	Horizontal	341	1.76	-	27.63	3.68	-
AV	2.4838G	45.22	54.00	-8.78	13.91	3	Horizontal	341	1.76	-	27.63	3.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



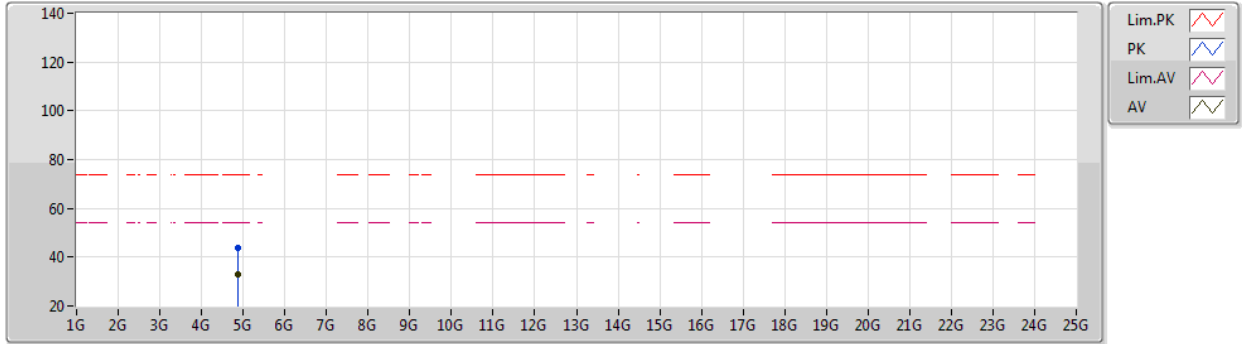
EUT Y_2TX
Setting 25
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8717G	44.99	74.00	-29.01	42.11	3	Vertical	78	1.67	-	31.30	6.36	34.78
AV	4.87551G	30.89	54.00	-23.11	28.01	3	Vertical	78	1.67	-	31.30	6.36	34.78

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2437MHz_TX



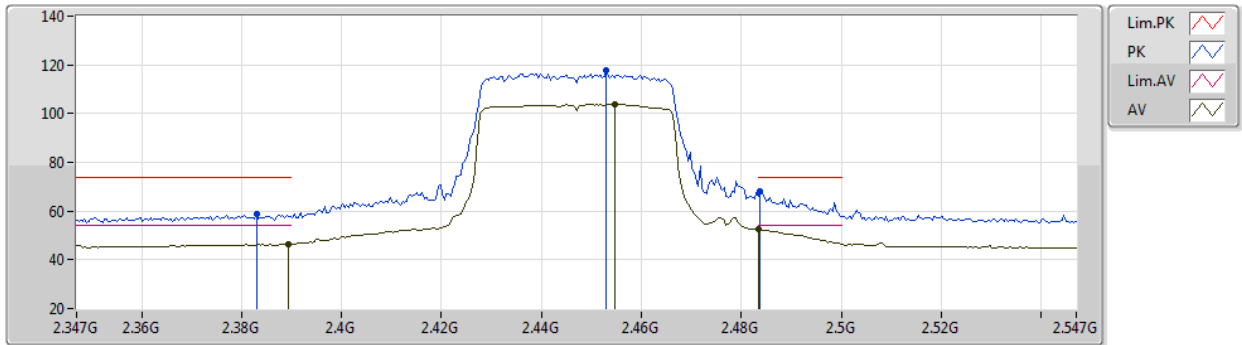
EUT Y_2TX
Setting 25
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87527G	43.97	74.00	-30.03	41.09	3	Horizontal	266	2.38	-	31.30	6.36	34.78
AV	4.87419G	33.12	54.00	-20.88	30.24	3	Horizontal	266	2.38	-	31.30	6.36	34.78

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2447MHz_TX



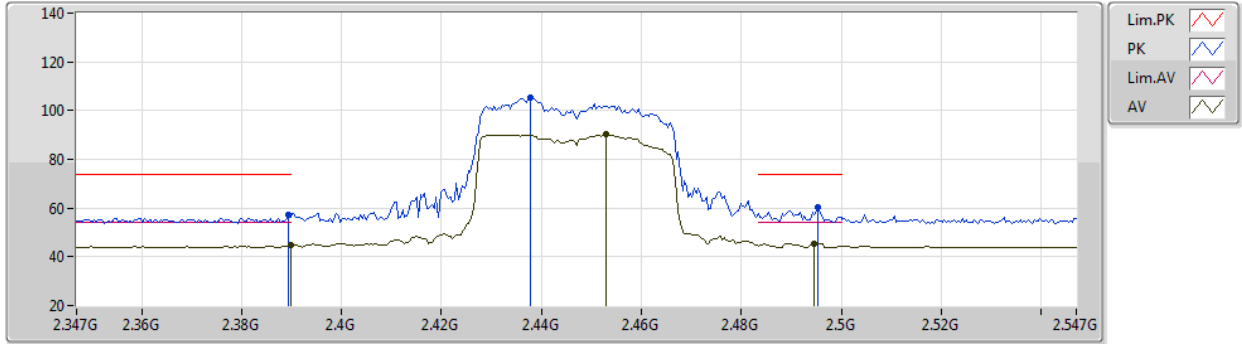
EUT Y_2TX
Setting 22
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.383G	58.82	74.00	-15.18	27.41	3	Vertical	168	1.05	-	27.82	3.59	-
AV	2.3894G	46.49	54.00	-7.51	15.09	3	Vertical	168	1.05	-	27.81	3.59	-
PK	2.453G	117.74	Inf	-Inf	86.40	3	Vertical	168	1.05	-	27.69	3.65	-
AV	2.4546G	103.94	Inf	-Inf	72.60	3	Vertical	168	1.05	-	27.69	3.65	-
PK	2.4838G	67.91	74.00	-6.09	36.60	3	Vertical	168	1.05	-	27.63	3.68	-
AV	2.4835G	52.71	54.00	-1.29	21.40	3	Vertical	168	1.05	-	27.63	3.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2447MHz_TX



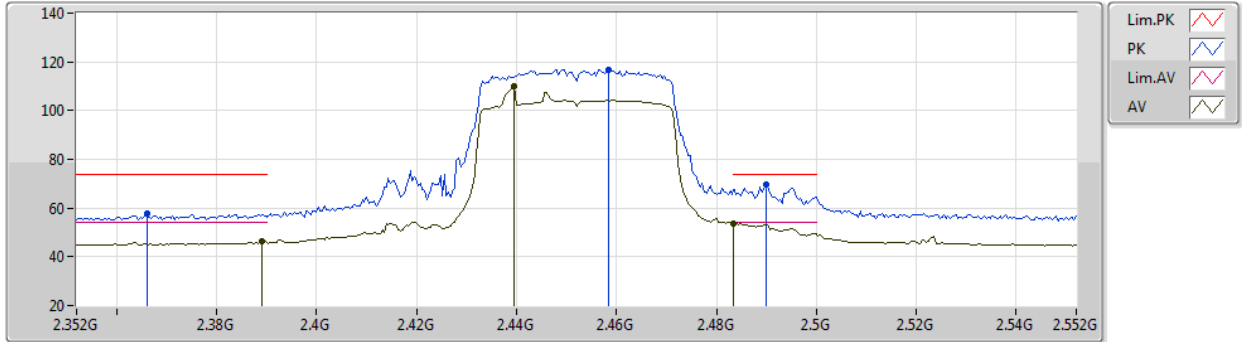
EUT Y_2TX
Setting 22
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	57.15	74.00	-16.85	25.75	3	Horizontal	0	1.61	-	27.81	3.59	-
AV	2.3898G	44.62	54.00	-9.38	13.22	3	Horizontal	0	1.61	-	27.81	3.59	-
PK	2.4378G	105.41	Inf	-Inf	74.05	3	Horizontal	0	1.61	-	27.72	3.64	-
AV	2.453G	90.13	Inf	-Inf	58.79	3	Horizontal	0	1.61	-	27.69	3.65	-
PK	2.4954G	60.37	74.00	-13.63	29.06	3	Horizontal	0	1.61	-	27.61	3.70	-
AV	2.4946G	45.47	54.00	-8.53	14.17	3	Horizontal	0	1.61	-	27.61	3.69	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



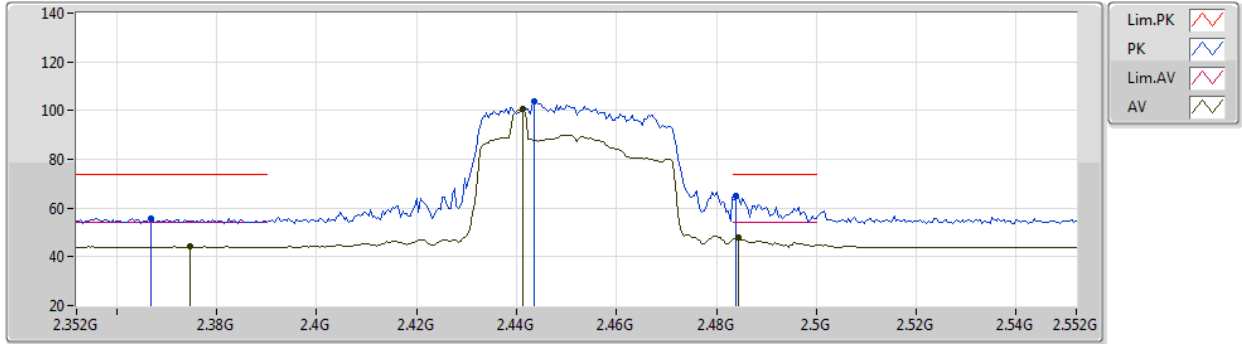
EUT Y_2TX
Setting 22
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.366G	57.79	74.00	-16.21	26.38	3	Vertical	171	1.43	-	27.83	3.58	-
AV	2.3892G	46.50	54.00	-7.50	15.10	3	Vertical	171	1.43	-	27.81	3.59	-
PK	2.4584G	116.91	Inf	-Inf	85.57	3	Vertical	171	1.43	-	27.68	3.66	-
AV	2.4396G	110.18	Inf	-Inf	78.82	3	Vertical	171	1.43	-	27.72	3.64	-
PK	2.49G	69.72	74.00	-4.28	38.41	3	Vertical	171	1.43	-	27.62	3.69	-
AV	2.4835G	53.69	54.00	-0.31	22.38	3	Vertical	171	1.43	-	27.63	3.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

15/01/2020

2452MHz_TX



EUT Y_2TX
Setting 22
03-B-M-1

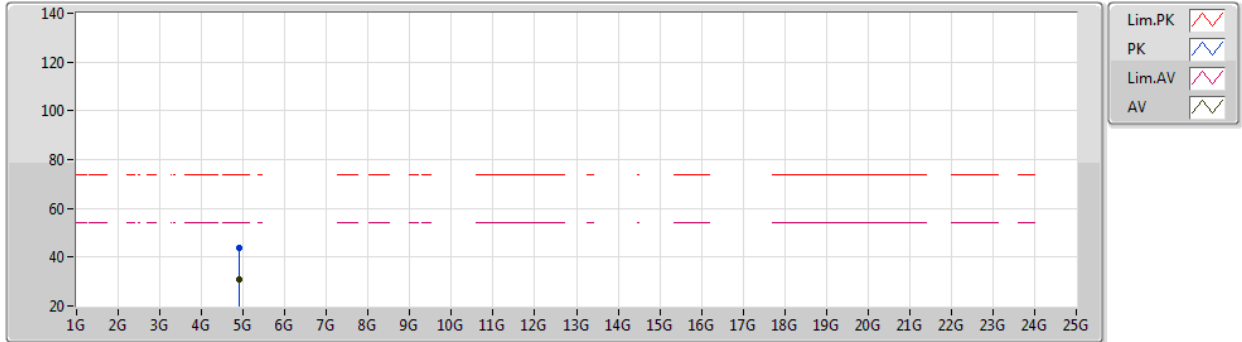
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3668G	55.70	74.00	-18.30	24.29	3	Horizontal	0	1.80	-	27.83	3.58	-
AV	2.3748G	44.18	54.00	-9.82	12.76	3	Horizontal	0	1.80	-	27.83	3.59	-
PK	2.4436G	103.97	Inf	-Inf	72.62	3	Horizontal	0	1.80	-	27.71	3.64	-
AV	2.4412G	100.75	Inf	-Inf	69.39	3	Horizontal	0	1.80	-	27.72	3.64	-
PK	2.484G	64.75	74.00	-9.25	33.44	3	Horizontal	0	1.80	-	27.63	3.68	-
AV	2.4844G	47.75	54.00	-6.25	16.44	3	Horizontal	0	1.80	-	27.63	3.68	-



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

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2452MHz_TX



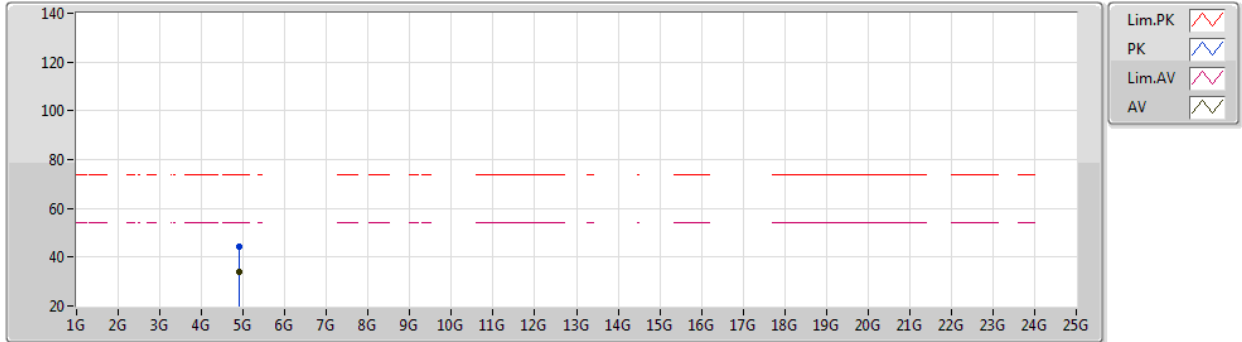
EUT Y_2TX
Setting 22
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90467G	43.75	74.00	-30.25	40.84	3	Vertical	163	2.72	-	31.32	6.35	34.76
AV	4.90183G	30.85	54.00	-23.15	27.95	3	Vertical	163	2.72	-	31.31	6.35	34.76

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

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EUT Y_2TX
Setting 22
03-B-M-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90443G	44.24	74.00	-29.76	41.33	3	Horizontal	304	1.30	-	31.32	6.35	34.76
AV	4.90279G	33.87	54.00	-20.13	30.97	3	Horizontal	304	1.30	-	31.31	6.35	34.76

