



RADIO TEST REPORT

FCC ID : QXO-AP5050
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5050U
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.247

The product was received on May 16, 2022, and testing was started from May 30, 2022 and completed on Sep. 12, 2022. We, Sporton International Inc. Hsinchu 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3



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:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

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

Reviewed by: Sam Chen**Report Producer: Viola 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]

For Radio 1

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	11b	20	1, 2, 4
2.4-2.4835GHz	11g	20	1, 2, 4
2.4-2.4835GHz	802.11n HT20	20	1, 2, 4
2.4-2.4835GHz	802.11n HT20-BF	20	2, 4
2.4-2.4835GHz	VHT20	20	1, 2, 4
2.4-2.4835GHz	VHT20-BF	20	2, 4
2.4-2.4835GHz	802.11ax HEW20	20	1, 2, 4
2.4-2.4835GHz	802.11ax HEW20-BF	20	2, 4

For Scanning radio 1

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	11b	20	4
2.4-2.4835GHz	11g	20	4
2.4-2.4835GHz	802.11n HT20	20	4
2.4-2.4835GHz	VHT20	20	4
2.4-2.4835GHz	802.11ax HEW20	20	4

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port					Brand Name	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)	WLAN 5GHz (Radio 2)	WLAN 5GHz (Scanning Radio 1)	BT / IEEE802.15.4 (Radio 3)	GPS (Radio 4)					
1	1	-	-	-	-	WNC	95XEAJ15.G45	Metal PIFA	I-PEX	Note 1
2	2	-	-	-	-	WNC	95XEAJ15.G46	Metal PIFA	I-PEX	
3	3	-	1	-	-	WNC	95XEAJ15.G53	Metal PIFA	I-PEX	
4	4	-	2	-	-	WNC	95XEAJ15.G54	Metal PIFA	I-PEX	
5	-	1	-	-	-	WNC	95XEAJ15.G47	Metal PIFA	I-PEX	
6	-	2	-	-	-	WNC	95XEAJ15.G48	Metal PIFA	I-PEX	
7	-	3	-	-	-	WNC	95XEAJ15.G91	Metal PIFA	I-PEX	
8	-	4	-	-	-	WNC	95XEAJ15.G92	Metal PIFA	I-PEX	
9	-	-	-	-	-	WNC	95XEAJ15.G49	Metal PIFA	I-PEX	
10	-	-	-	-	-	WNC	95XEAJ15.G50	Metal PIFA	I-PEX	
11	-	-	-	-	-	WNC	95XEAJ15.G51	Metal PIFA	I-PEX	
12	-	-	-	-	-	WNC	95XEAJ15.G52	Metal PIFA	I-PEX	
13	-	-	-	1	-	WNC	95XEAJ15.G55	Metal PIFA	I-PEX	
14	-	-	-	-	1	WNC	95XEAJ15.G89	Metal PIFA	I-PEX	

Note 1:

Ant.	Antenna Gain (dBi)												
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)			WLAN 5GHz (Radio 2)				WLAN 5GHz (Scanning Radio 1)				BT / IEEE802.15.4 (Radio 3)	GPS (Radio 4)
	2.4G	2.45G	2.4835G	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1	UNII 2A	UNII 2C	UNII 3		
1	2.3	2.62	2.51	-	-	-	-	-	-	-	-	-	-
2	2.79	3.09	3.11	-	-	-	-	-	-	-	-	-	-
3	3.18	2.35	2.56	-	-	-	-	4.4	4.4	4.4	4.4	-	-
4	3.8	4.63	3.64	-	-	-	-	4.4	4.4	4.4	4.4	-	-
5	-	-	-	3.18	2.87	2.65	2.51	-	-	-	-	-	-
6	-	-	-	3.24	3.59	3.6	3.35	-	-	-	-	-	-
7	-	-	-	3.75	4.08	3.8	4.59	-	-	-	-	-	-
8	-	-	-	3.3	3.05	2.6	2.53	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	4.9	-
14	-	-	-	-	-	-	-	-	-	-	-	-	3.3



Ant.	Directional Gain (dBi)														
	WLAN 2.4GHz (Radio 1) (Scanning Radio 1)														
	2.4G		2.45G		2.4835G		2.4G			2.45G			2.4835G		
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
1	4.13	2.79	4.72	3.09	4.15	3.11	7.27	4.27	3.8	7.68	4.68	4.63	7.05	4.05	3.64
2															
3	-	-	-	-	-	-									
4															

Ant.	Directional Gain (dBi)									
	WLAN 5GHz (Radio 2)									
	UNII 1		UNII 2A		UNII 2C		UNII 3			
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
5	5.5	3.24	5.81	3.59	4.34	3.6	4.53	3.35		
6										

Ant.	Directional Gain (dBi)											
	WLAN 5GHz (Radio 2)											
	UNII 1			UNII 2A			UNII 2C			UNII 3		
	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
5	8.43	5.43	3.75	8.12	5.12	4.08	7.02	4.02	3.8	7.68	4.68	4.59
6												
7												
8												

Note 2: The EUT has fourteen antennas.

Note 3: The above information (except gain of Radio 1 2.4GHz, Scanning Radio 1 2.4GHz, Radio 2) was declared by manufacturer.

Note 4: Radio 1 2.4GHz, Scanning Radio 1 2.4GHz, Radio 2: Maximum Directional Gain following KDB662911 D03.

Note 5: Scanning Radio 1 5GHz: Maximum Directional Gain following KDB662911 D01.

Note 6: The EUT doesn't enable the DFS and 6GHz band. The antenna 9~12 is 6GHz's antenna. Thus, the antenna 9~12 function doesn't enable it at this time.

Note 7: Directional gain information.

For Scanning Radio 1 5GHz

5G G1 = 4.4 dBi; G2 = 4.4 dBi

5G 2T1S DG= 7.41 dBi; 2T2S DG= 4.4 dBi

**For Radio 1****For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

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

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Scanning Radio 1**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):**

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

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

For 5GHz UNII 1, 3:**For IEEE 802.11a/n/ac/ax mode (2TX/2RX):**

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

Port 1, Port 2 could transmit/receive simultaneously.

For Radio 2**For 5GHz UNII 1, 3:****For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

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

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Radio 3**Bluetooth / IEEE802.15.4 (1TX):**

Only Port 1 can be used as transmitting antenna.

For Radio 4**GPS (1RX):**

Only Port 1 can be used as receiving antenna.

**1.1.3 Mode Test Duty Cycle****For Radio 1****1T1S**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.952	0.21	12.424m	100
802.11g	0.955	0.2	2.07m	1k
802.11ax HEW20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

2T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.936	0.29	12.424m	100
802.11g	0.953	0.21	2.07m	1k

2T2S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.97	0.13	787.5u	3k

4T1S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.957	0.19	12.42m	100
802.11g	0.954	0.2	2.068m	1k
802.11ax HEW20	0.984	0.07	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

4T4S

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20	0.945	0.25	440u	3k

Note:

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

**1.1.4 EUT Operational Condition**

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in radio 1 2.4GHz, 11n/11ac/11ax in radio 2 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool (v3.2.1.5)			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function
AP
Bridge
Mesh

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.

1.1.6 Table for Radio function

Radio (R)	WLAN 2.4GHz	5GHz	Scanning radio (WLAN 2.4GHz 4TX / 5GHz 2TX)	Bluetooth / IEEE802.15.4	GPS
R1	V (AP, Bridge, Mesh)	-	V (AP, Bridge, Mesh for 2.4GHz, AP for 5GHz UNII 1, 3)	-	-
R2	-	V (AP for UNII 1, 3 / Bridge, Mesh for UNII 1, 3)	-	-	-
R3	-	-	-	V	-
R4	-	-	-	-	V

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Caster Chang	25.6~26.1 / 65~69	Jun. 06, 2022~Aug. 15, 2022
Radiated below 1GHz	10CH01-CB	Joe Chu	22~23 / 57~58	May 30, 2022~Sep. 12, 2022
Radiated above 1GHz	03CH01-CB	RJ Huang	24.1~26.1 / 60~65	May 31, 2022~Jul. 01, 2022
	03CH03-CB		23.7~25.1 / 66~68	
AC Conduction	CO01-CB	Allen Chung	23~24 / 56~57	May 30, 2022



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 Date : After Mar. 10, 2022

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.9 dB	Confidence levels of 95%

Test Date : Before Nov. 04, 2022

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%

Test Date : Before Jun. 01, 2022

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%

Test Date : After May 31, 2022

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

For Radio 1

1T1S

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	94
2417MHz	96
2437MHz	101
2457MHz	94
2462MHz	89
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	82
2417MHz	84
2437MHz	94
2457MHz	86
2462MHz	80
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	80
2417MHz	85
2437MHz	92
2457MHz	85
2462MHz	79

2T1S

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	88
2417MHz	88
2437MHz	88
2457MHz	88
2462MHz	88
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	75
2417MHz	82
2437MHz	91
2457MHz	82
2462MHz	72

**2T2S**

Mode	Power Setting
802.11ax HEW20_Nss2,(MCS0)_2TX	-
2412MHz	68
2417MHz	80
2437MHz	89
2457MHz	82
2462MHz	89

4T1S

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	75
2417MHz	78
2437MHz	89
2457MHz	88
2462MHz	86
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	59
2417MHz	75
2437MHz	91
2457MHz	79
2462MHz	52
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	65
2417MHz	79
2437MHz	85
2457MHz	75
2462MHz	91
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	65
2417MHz	79
2437MHz	85
2457MHz	75
2462MHz	91

**4T4S**

Mode	Power Setting
802.11ax HEW20_Nss4,(MCS0)_4TX	-
2412MHz	55
2417MHz	68
2437MHz	84
2457MHz	76
2462MHz	56

Note:

- ♦ Evaluated HEW20 mode only due to the similar modulation. The power setting of HT20/VHT20 mode are the same or lower than HEW20.
- ♦ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

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 Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link(WLAN, GPS), CTX(Bluetooth, IEEE802.15.4)
1	R1 (2.4GHz)+R2 (5GHz)+R3 (BT)+R4 (GPS)+PoE 1
2	R1 (2.4GHz)+R2 (5GHz)+R3 (802.15.4)+R4 (GPS)+PoE 1
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	Scanning R1 (5GHz)+R2 (5GHz)+R3 (802.15.4)+R4 (GPS)+PoE 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
1	Refer to note 1 for detail operating mode

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(WLAN, GPS), CTX(Bluetooth, IEEE802.15.4)
1	EUT in Z axis_R1 (2.4GHz)+R2 (5GHz)+R3 (BT)+R4 (GPS)+PoE 1
2	EUT in Y axis_R1 (2.4GHz)+R2 (5GHz)+R3 (BT)+R4 (GPS)+PoE 1
3	EUT in X axis_R1 (2.4GHz)+R2 (5GHz)+R3 (BT)+R4 (GPS)+PoE 1
Mode 1 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~Mode 6 will follow this same test mode.	
4	EUT in Z axis_R1 (2.4GHz)+R2 (5GHz)+R3 (802.15.4)+R4 (GPS)+PoE 1
5	EUT in Z axis_Scanning R1 (5GHz)+R2 (5GHz)+R3 (BT)+R4 (GPS)+PoE 1
6	EUT in Z axis_Scanning R1 (5GHz)+R2 (5GHz)+R3 (802.15.4)+R4 (GPS)+PoE 1
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	1. The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found as below. So the measurement will follow this same test configuration. 2. Refer to note 1 for detail operating mode
1	EUT in Z axis for harmonic and EUT in Y axis for bandedge_R1_1T1S
2	EUT in X axis_R1_2T1S_2T2S
3	EUT in X axis for harmonic and EUT in Y axis for bandedge_R1_4T1S
4	EUT in X axis for harmonic and EUT in Y axis for bandedge_R1_4T2S


Note 1: Test Mode

Test Item	Test Mode															
	802.11b					802.11g					802.11ax HEW20					
	1T1S	2T1S	2T2S	4T1S	4T4S	1T1S	2T1S	2T2S	4T1S	4T4S	1T1S	2T1S	2T2S	4T1S	TXBF 4T1S	4T4S
Maximum Conducted Output Power	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	V	V
DTS Bandwidth	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	-	V
Power Spectral Density	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	-	V
Emissions in Non-restricted Frequency Bands	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	-	V
Radiated Emission	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	-	V
Band Edge Emission	V	V	-	V	-	V	V	-	V	-	V	Note 2	V	V	-	V

Note 1: 802.11ax HEW20 2T1S CDD mode was covered by 802.11ax HEW20 2T2S, due to

2T1S=MIN(2T2S, (2T2S-(10*LOG(2/1)-2T2S (worst case of PSD/BE/Harmonic) MARGIN))).

Note 2: Scanning Radio 1 (2.4GHz) was exempted from testing because they're covered by Radio 1 (2.4GHz).

Note 3: The PoE is for measurement only, would not be marketed.

Their information as below:

Power	Brand	Model
PoE 1	Microsemi	PD-9501-10GC/AC
PoE 2	Microsemi	PD-9001GR/AT/AC

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1
Sealing Collar*2



2.5 Support Equipment

For AC Conduction and Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	Microsemi	PD-9501-10GC/AC	N/A
B	PD Load	JUNIPER	RXRB-MIB	N/A
C	5G LAN PC	DELL	T3400	N/A
D	2.5G LAN NB	DELL	E6430	N/A
E	WiFi (R2) 5G NB	DELL	E6430	N/A
F	WiFi (R1) 2.4G / 5G SCAN NB	DELL	E6430	N/A

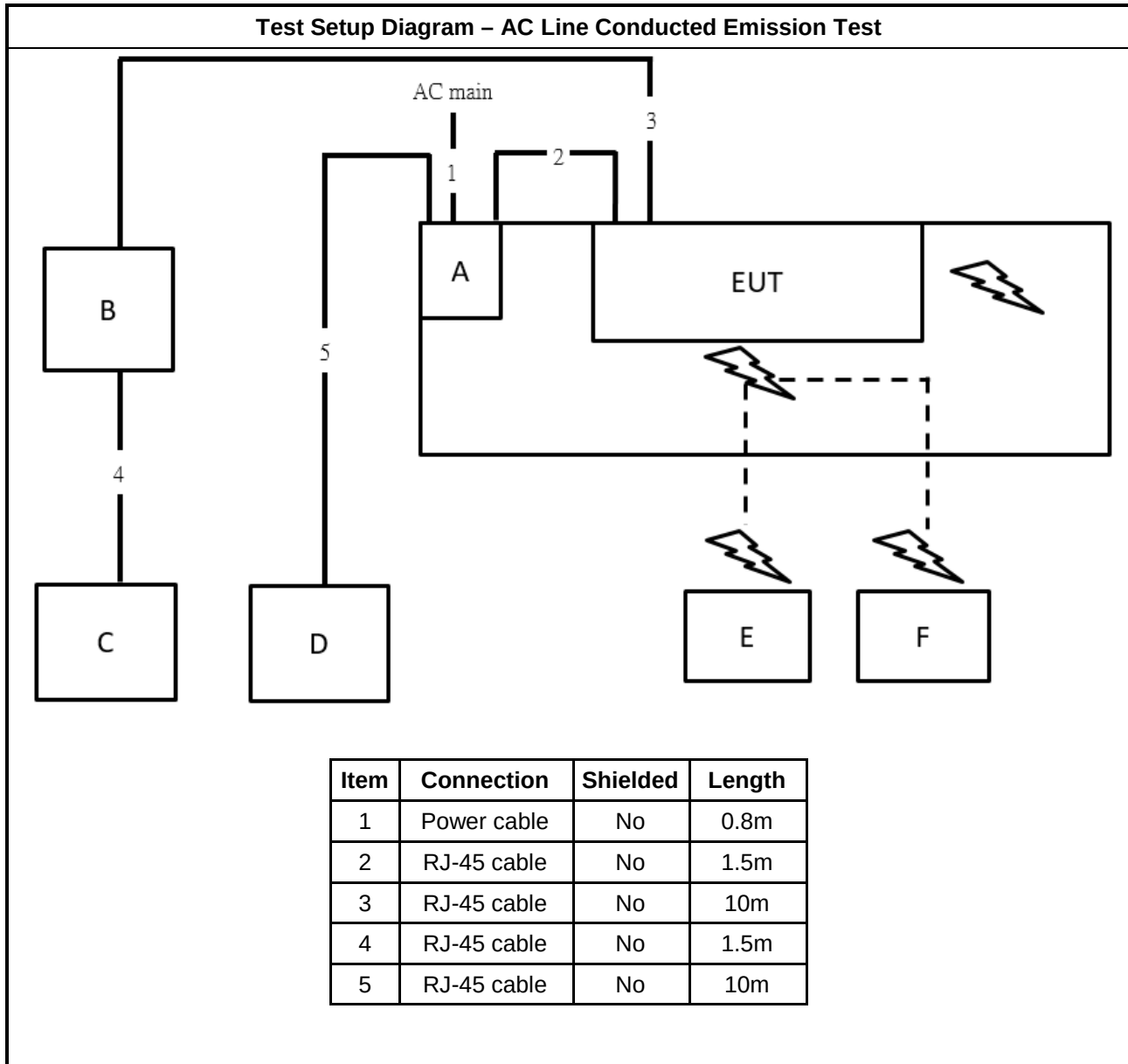
For Radiated (above 1GHz):

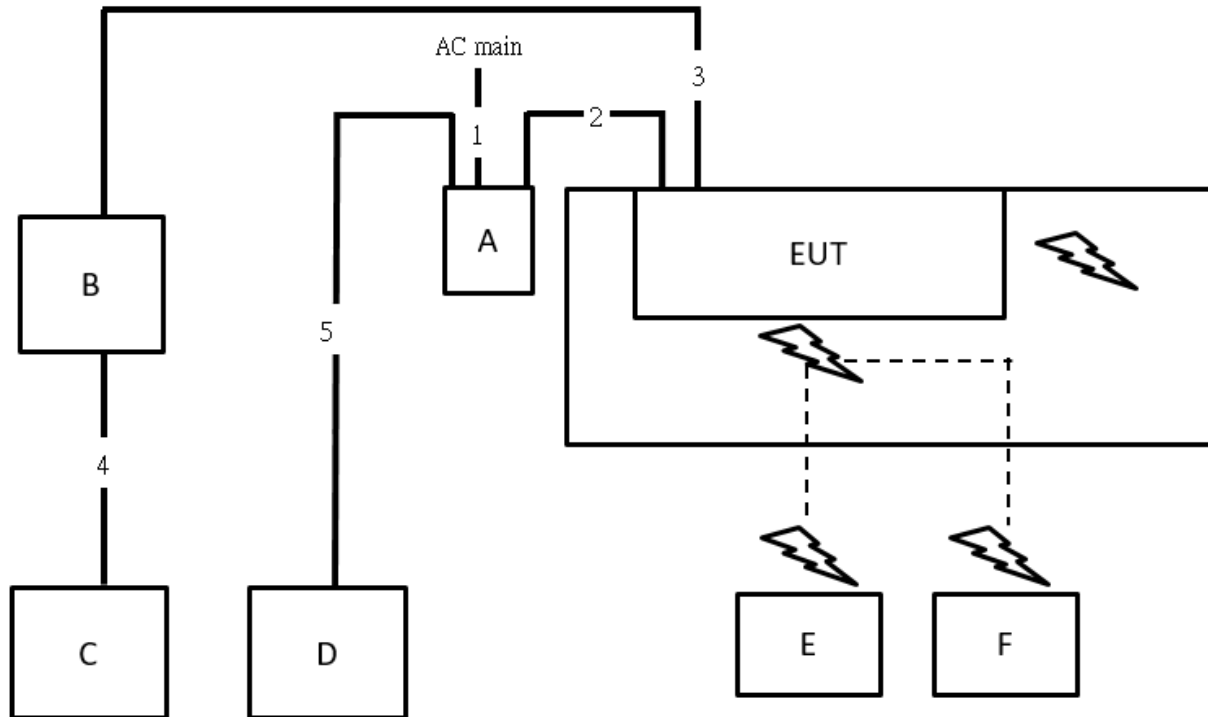
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 1	Microsemi	PD-9501-10GC/AC	N/A

For RF Conducted:

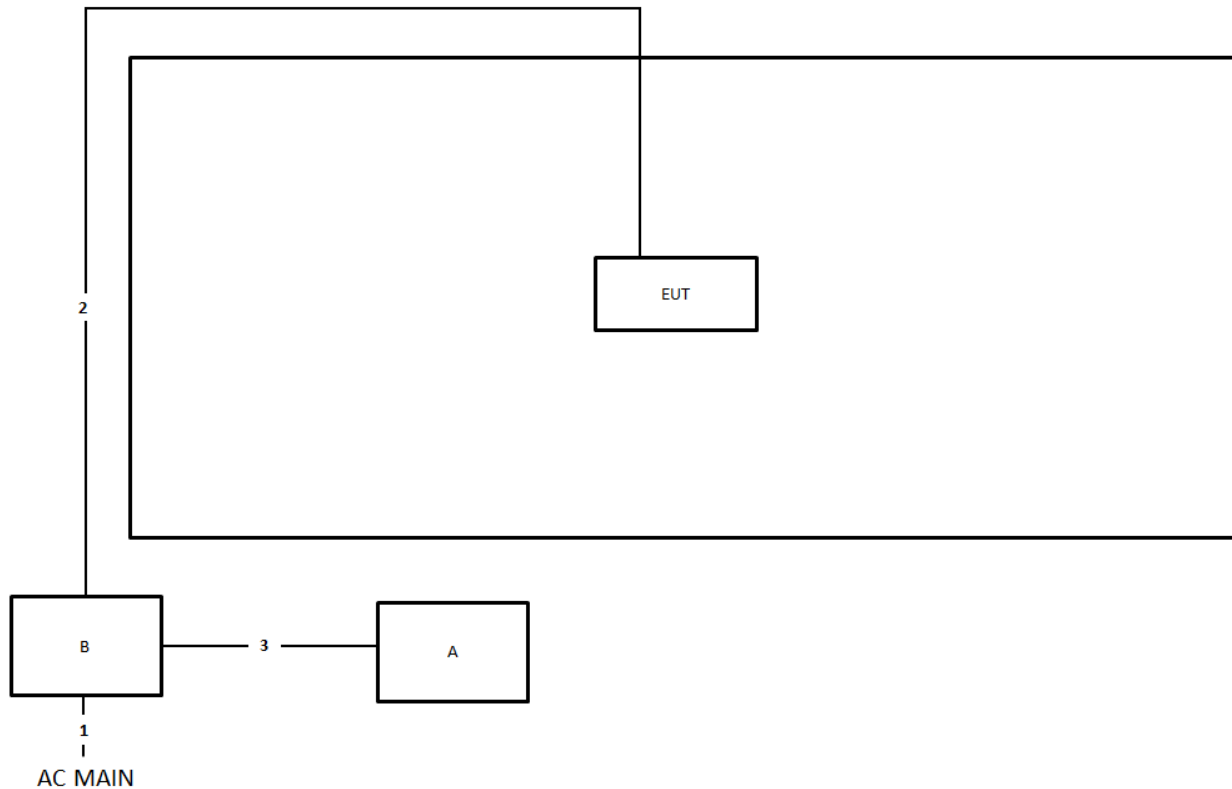
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 2	Microsemi	PD-9001GR/AT/AC	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	0.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

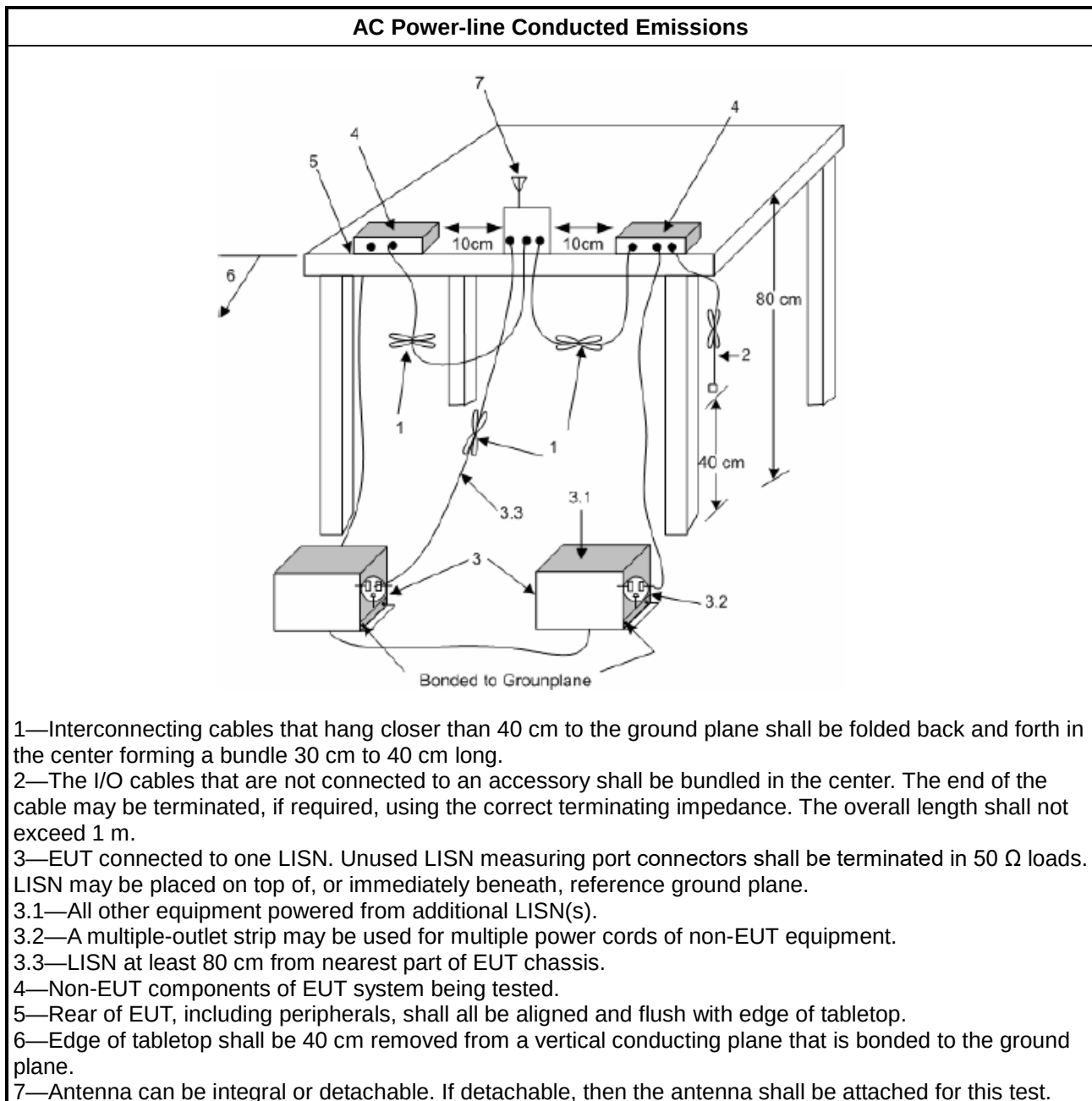
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

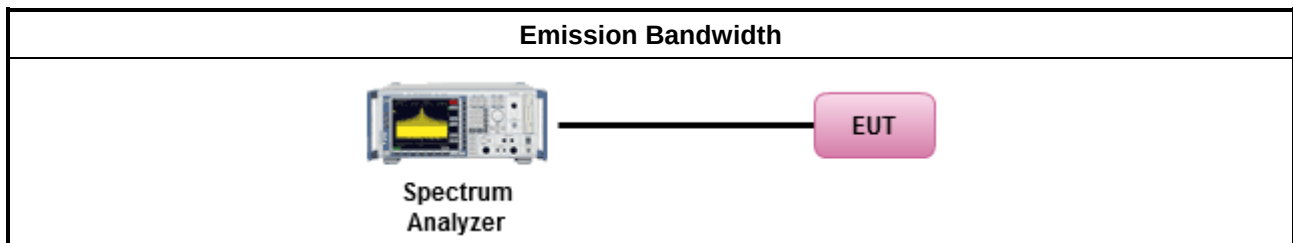
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

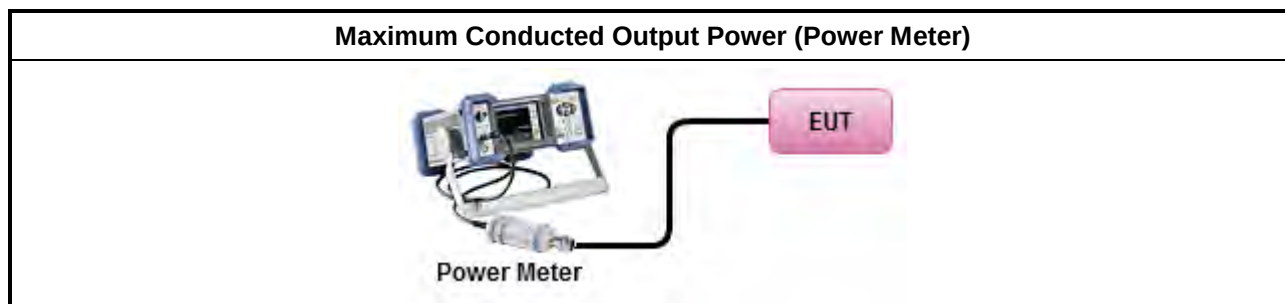
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

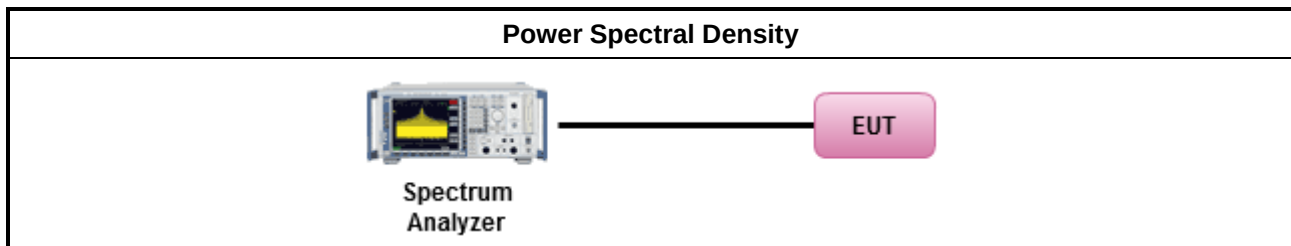
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

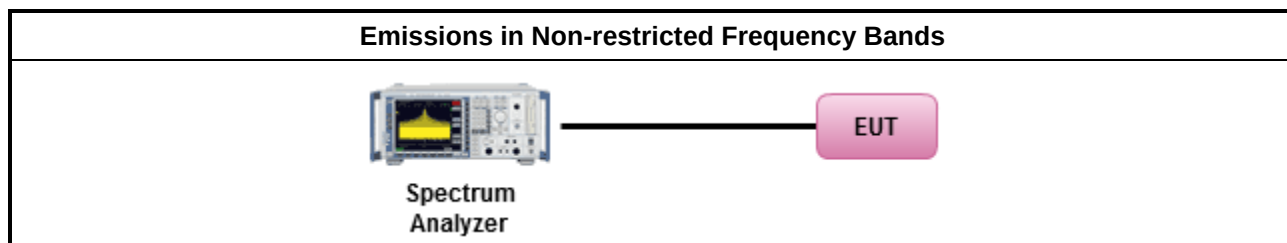
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

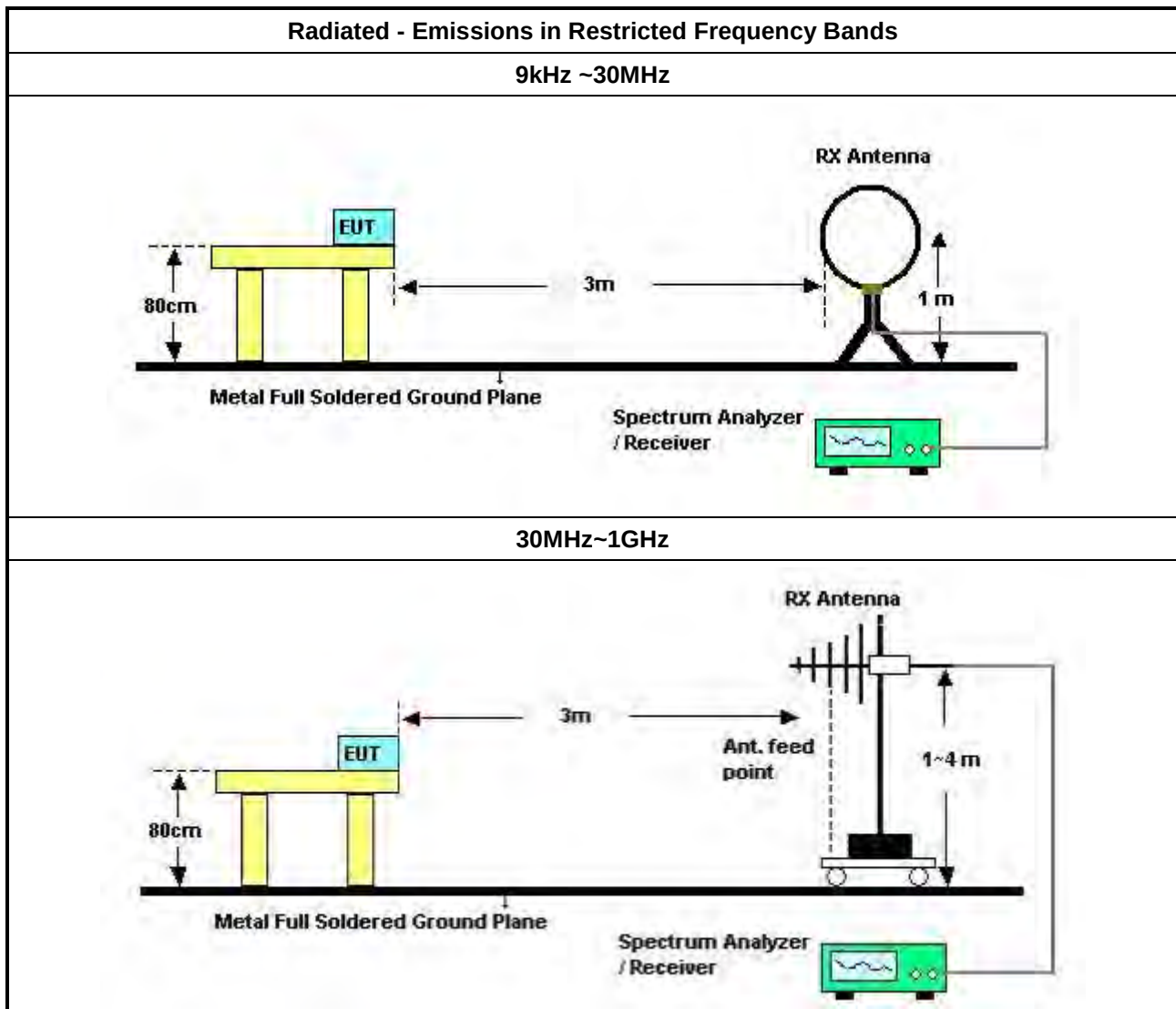
Refer a test equipment and calibration data table in this test report.

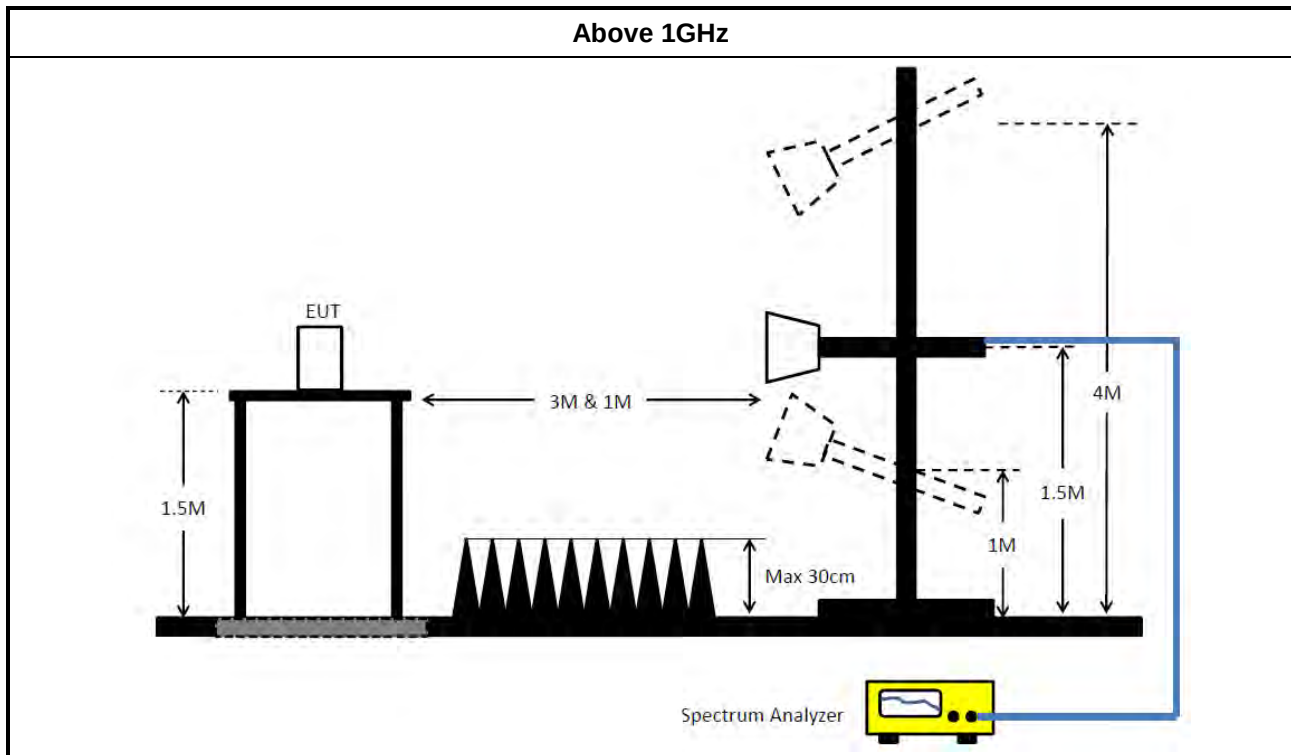


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = 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 10th 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	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (10CH01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 27, 2022	Jan. 26, 2023	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2022	Mar. 10, 2023	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2022	Mar. 10, 2023	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
EMI Test Receiver	Rohde& Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (10CH01-CB)
EMI Test Receiver	Rohde& Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 11, 2022	Jul. 10, 2023	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde& Schwarz	FSV30	101026	9kHz ~ 30GHz	Apr. 22, 2022	Apr. 21, 2023	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCi	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jul. 01, 2021	Jun. 30, 2022	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCi	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jun. 25, 2022	Jun. 24, 2023	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 20, 2021	Oct. 19, 2022	Radiation (10CH01-CB)
Low Cable	TITAN	T318E	low cable-03	30MHz ~ 1GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (10CH01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	ETS-LINDGR EN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz ~26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

N.C.R. means Non-Calibration required.



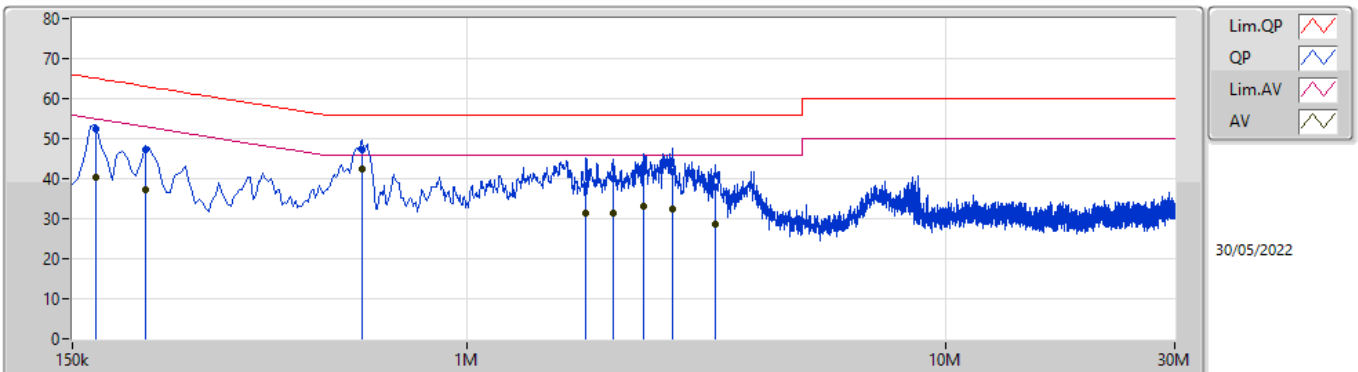
Conducted Emissions at Powerline

Appendix A

Summary

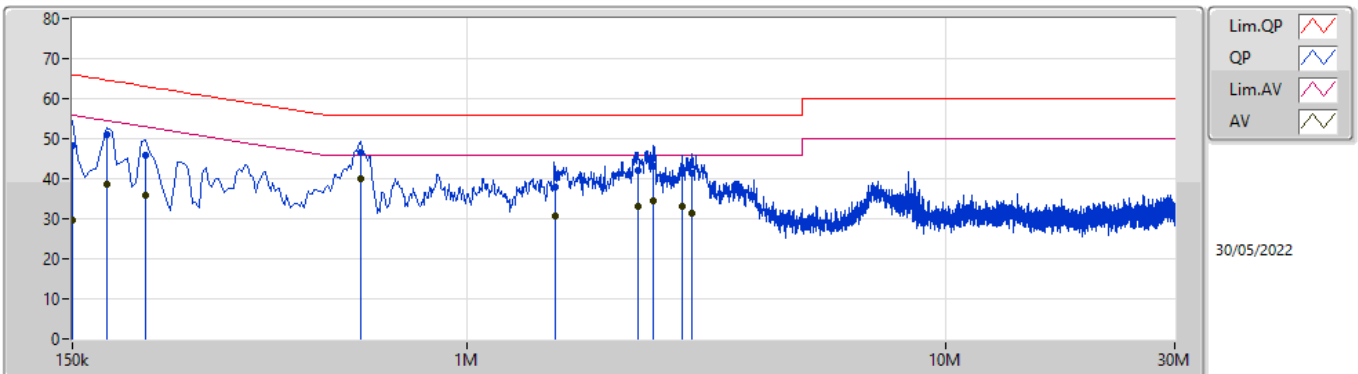
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	604.5k	42.51	46.00	-3.49	Line

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168k	52.47	65.06	-12.59	9.99	Line	-	42.48	0.06	0.04	9.89			
AV	168k	40.32	55.06	-14.74	9.99	Line	-	30.33	0.06	0.04	9.89			
QP	213k	47.23	63.09	-15.86	9.99	Line	-	37.24	0.06	0.04	9.89			
AV	213k	37.29	53.09	-15.80	9.99	Line	-	27.30	0.06	0.04	9.89			
QP	604.5k	47.13	56.00	-8.87	10.00	Line	-	37.13	0.06	0.05	9.89			
AV	604.5k	42.51	46.00	-3.49	10.00	Line	"Worst"	32.51	0.06	0.05	9.89			
QP	1.77M	38.43	56.00	-17.57	10.06	Line	-	28.37	0.09	0.08	9.89			
AV	1.77M	31.23	46.00	-14.77	10.06	Line	-	21.17	0.09	0.08	9.89			
QP	2.013M	40.03	56.00	-15.97	10.07	Line	-	29.96	0.09	0.09	9.89			
AV	2.013M	31.36	46.00	-14.64	10.07	Line	-	21.29	0.09	0.09	9.89			
QP	2.342M	41.63	56.00	-14.37	10.08	Line	-	31.55	0.10	0.09	9.89			
AV	2.342M	33.01	46.00	-12.99	10.08	Line	-	22.93	0.10	0.09	9.89			
QP	2.684M	41.87	56.00	-14.13	10.08	Line	-	31.79	0.10	0.09	9.89			
AV	2.684M	32.42	46.00	-13.58	10.08	Line	-	22.34	0.10	0.09	9.89			
QP	3.296M	37.98	56.00	-18.02	10.10	Line	-	27.88	0.11	0.10	9.89			
AV	3.296M	28.71	46.00	-17.29	10.10	Line	-	18.61	0.11	0.10	9.89			

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)		
QP	150k	48.44	66.00	-17.56	10.00	Neutral	-	38.44	0.07	0.04	9.89		
AV	150k	29.80	56.00	-26.20	10.00	Neutral	-	19.80	0.07	0.04	9.89		
QP	177k	51.05	64.62	-13.57	10.00	Neutral	-	41.05	0.07	0.04	9.89		
AV	177k	38.72	54.62	-15.90	10.00	Neutral	-	28.72	0.07	0.04	9.89		
QP	213k	45.72	63.09	-17.37	10.00	Neutral	-	35.72	0.07	0.04	9.89		
AV	213k	35.74	53.09	-17.35	10.00	Neutral	-	25.74	0.07	0.04	9.89		
QP	600k	46.63	56.00	-9.37	10.01	Neutral	-	36.62	0.07	0.05	9.89		
AV	600k	39.97	46.00	-6.03	10.01	Neutral	"Worst"	29.96	0.07	0.05	9.89		
QP	1.523M	37.97	56.00	-18.03	10.05	Neutral	-	27.92	0.09	0.07	9.89		
AV	1.523M	30.57	46.00	-15.43	10.05	Neutral	-	20.52	0.09	0.07	9.89		
QP	2.27M	41.92	56.00	-14.08	10.09	Neutral	-	31.83	0.11	0.09	9.89		
AV	2.27M	32.94	46.00	-13.06	10.09	Neutral	-	22.85	0.11	0.09	9.89		
QP	2.454M	43.04	56.00	-12.96	10.09	Neutral	-	32.95	0.11	0.09	9.89		
AV	2.454M	34.41	46.00	-11.59	10.09	Neutral	-	24.32	0.11	0.09	9.89		
QP	2.805M	42.34	56.00	-13.66	10.09	Neutral	-	32.25	0.11	0.09	9.89		
AV	2.805M	33.15	46.00	-12.85	10.09	Neutral	-	23.06	0.11	0.09	9.89		
QP	2.945M	41.52	56.00	-14.48	10.11	Neutral	-	31.41	0.12	0.10	9.89		
AV	2.945M	31.49	46.00	-14.51	10.11	Neutral	-	21.38	0.12	0.10	9.89		

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.05M	15.217M	15M3G1D	7M	11.869M
802.11g_Nss1,(6Mbps)_1TX	16.35M	24.013M	24M0D1D	16.3M	17.016M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.95M	24.163M	24M2D1D	18.825M	19.065M

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

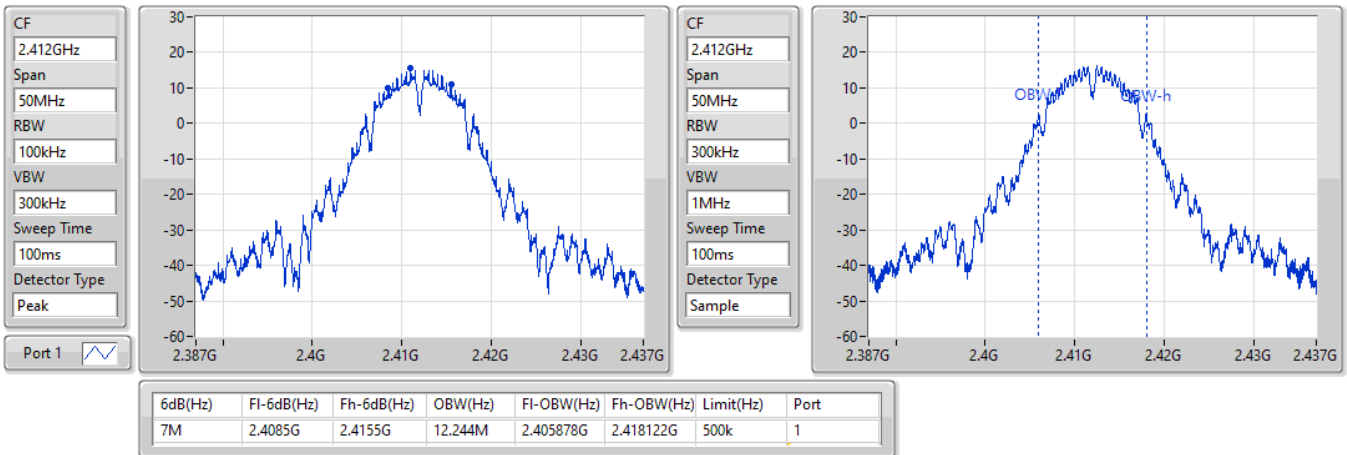
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7M	12.244M
2437MHz	Pass	500k	8.05M	15.217M
2462MHz	Pass	500k	7M	11.869M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.35M	17.041M
2437MHz	Pass	500k	16.3M	24.013M
2462MHz	Pass	500k	16.3M	17.016M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	18.825M	19.065M
2437MHz	Pass	500k	18.875M	24.163M
2462MHz	Pass	500k	18.95M	19.065M

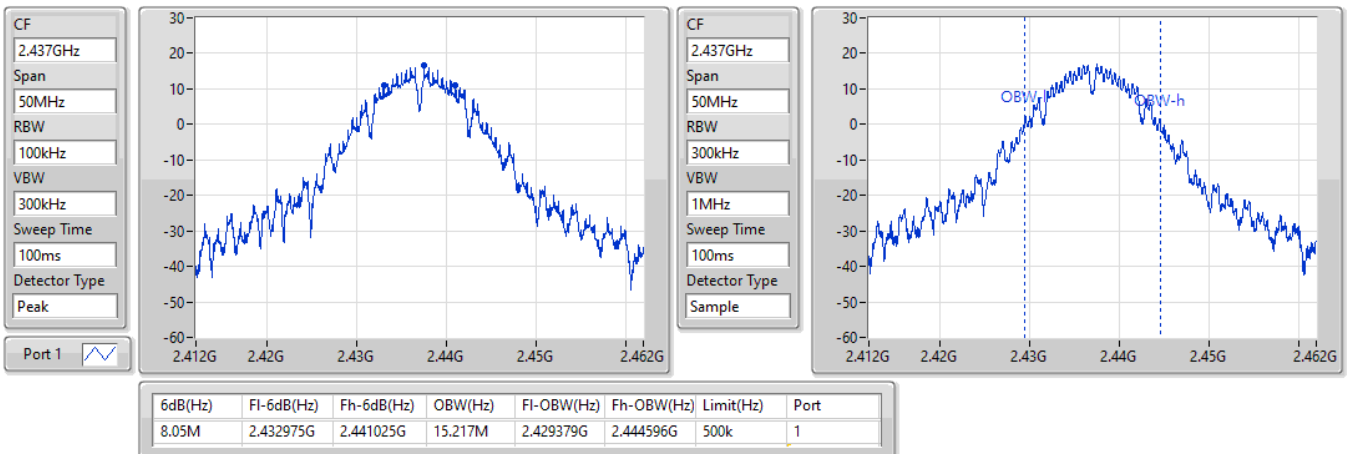
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

18/06/2022

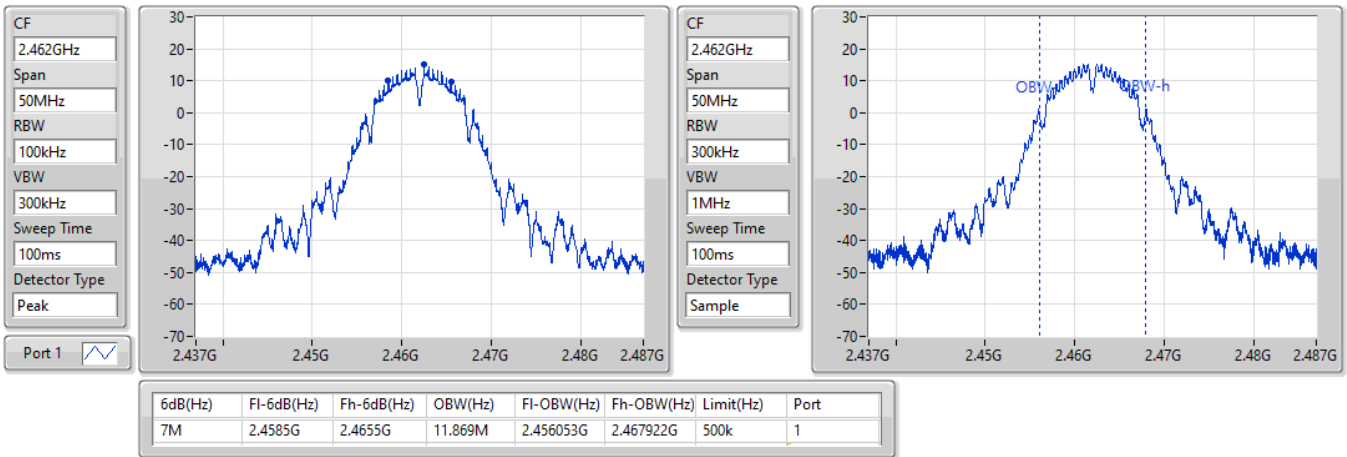

802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

18/06/2022

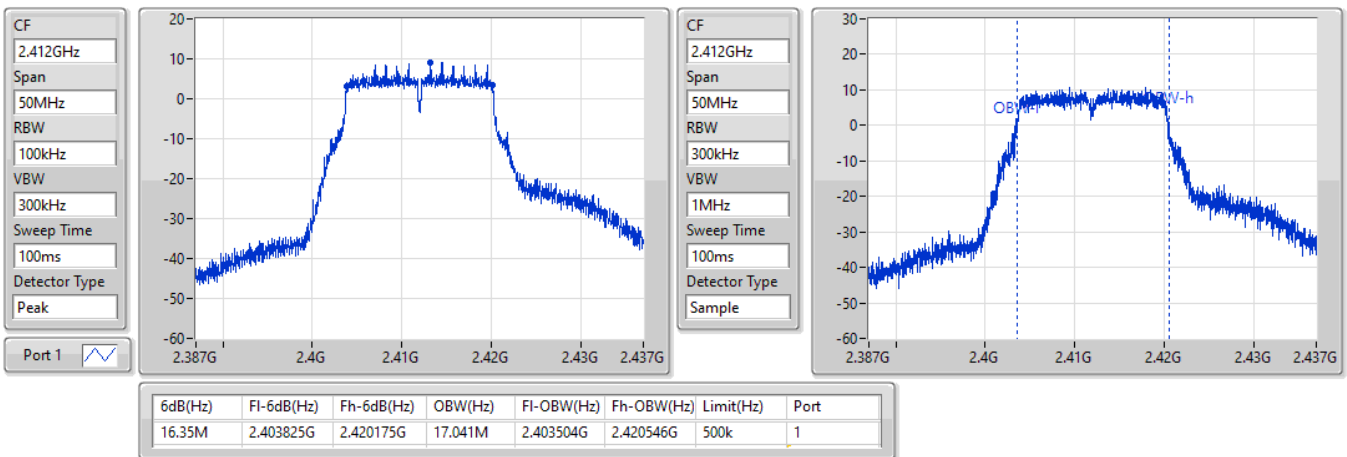


802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

18/06/2022

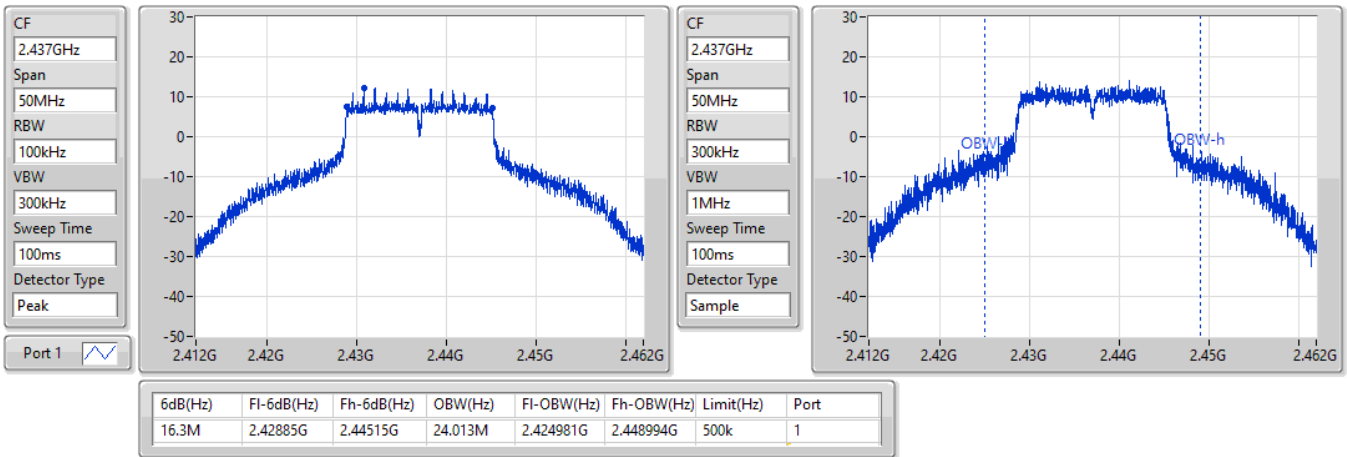

802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

18/06/2022

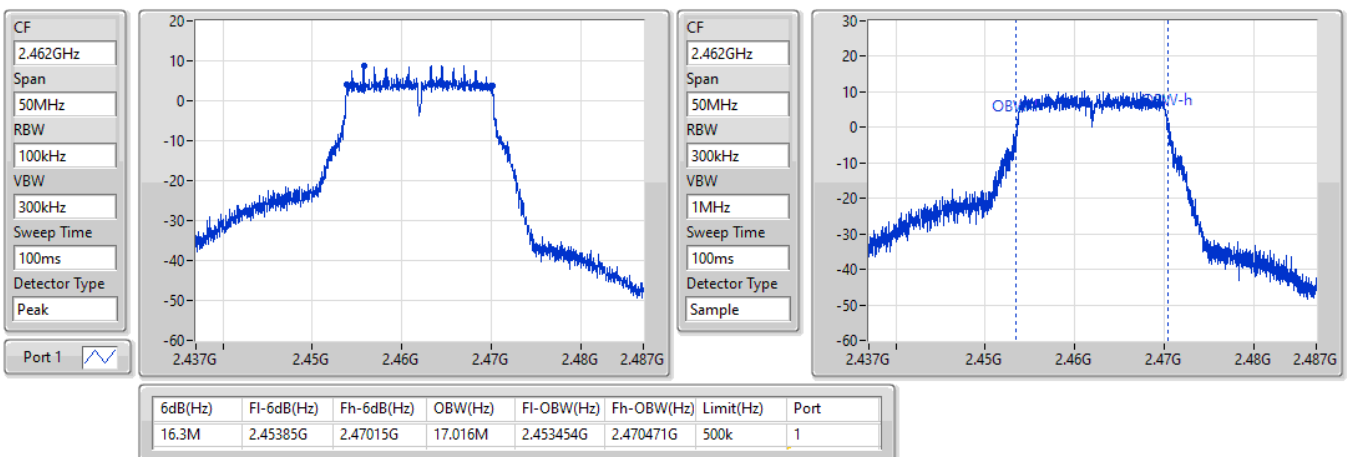


802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

18/06/2022

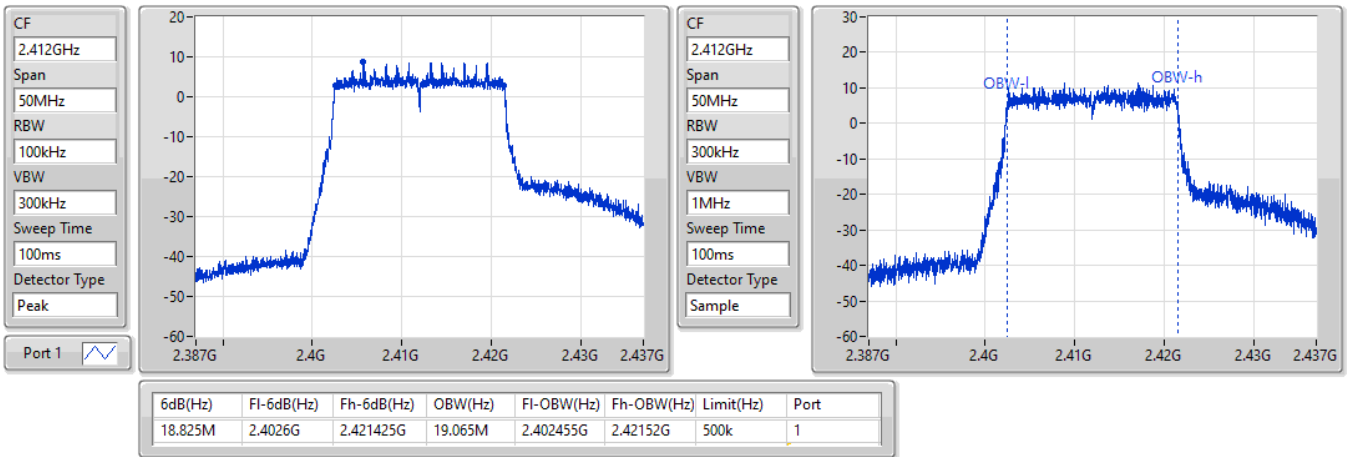

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

18/06/2022

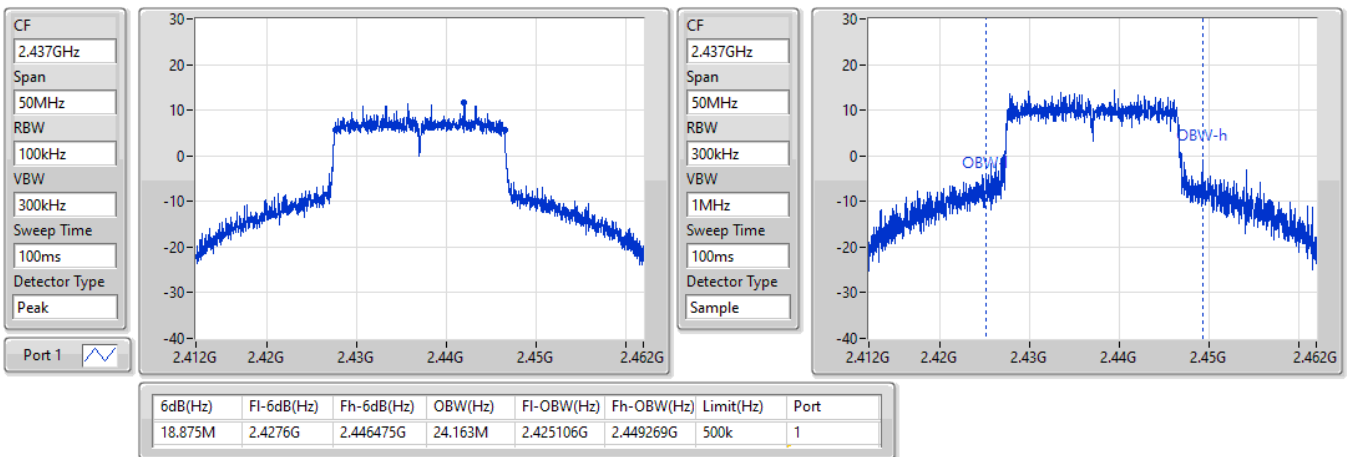


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2412MHz

18/06/2022


802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2437MHz

18/06/2022

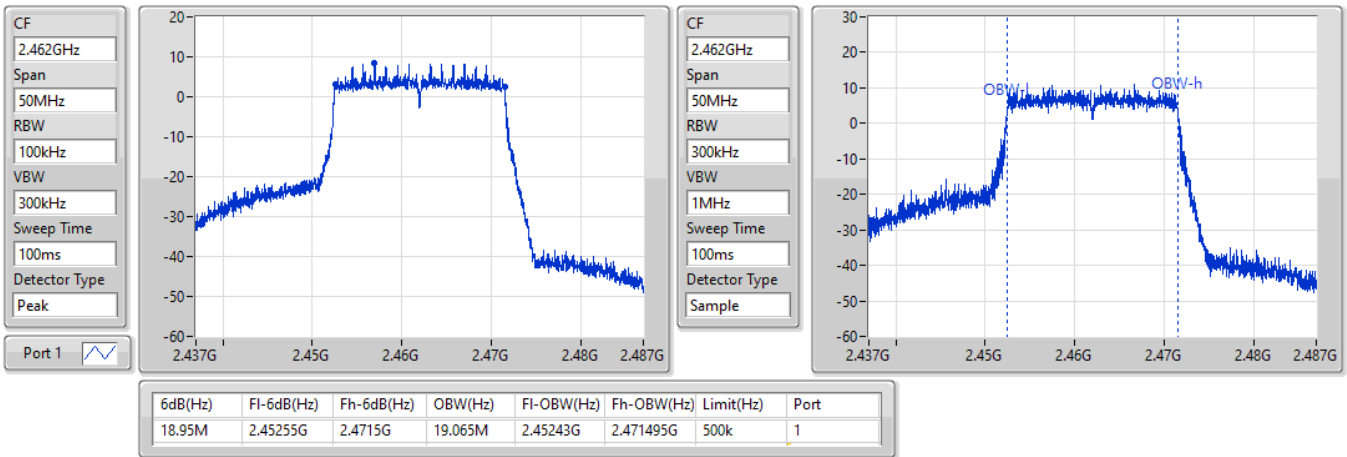


802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

18/06/2022



**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	9M	15.717M	15M8G1D	6.575M	11.819M
802.11g_Nss1,(6Mbps)_2TX	16.35M	21.889M	21M9D1D	16.325M	16.842M

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

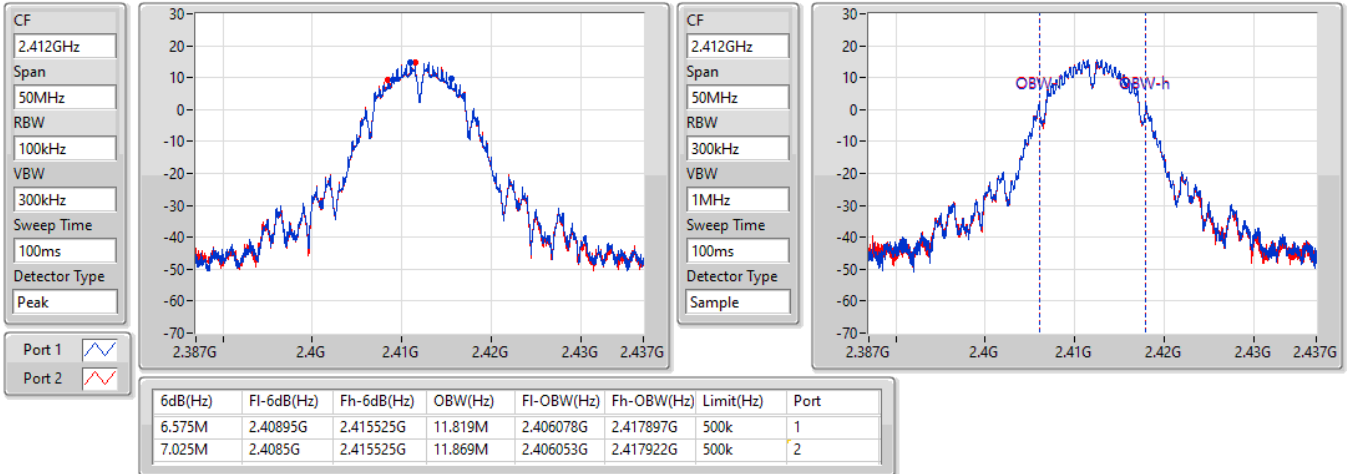
Result

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	6.575M	11.819M	7.025M	11.869M
2437MHz	Pass	500k	8.025M	15.717M	9M	15.017M
2462MHz	Pass	500k	7.05M	11.919M	7.525M	11.919M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.992M	16.325M	16.842M
2437MHz	Pass	500k	16.325M	20.29M	16.35M	21.889M
2462MHz	Pass	500k	16.325M	16.942M	16.35M	16.967M

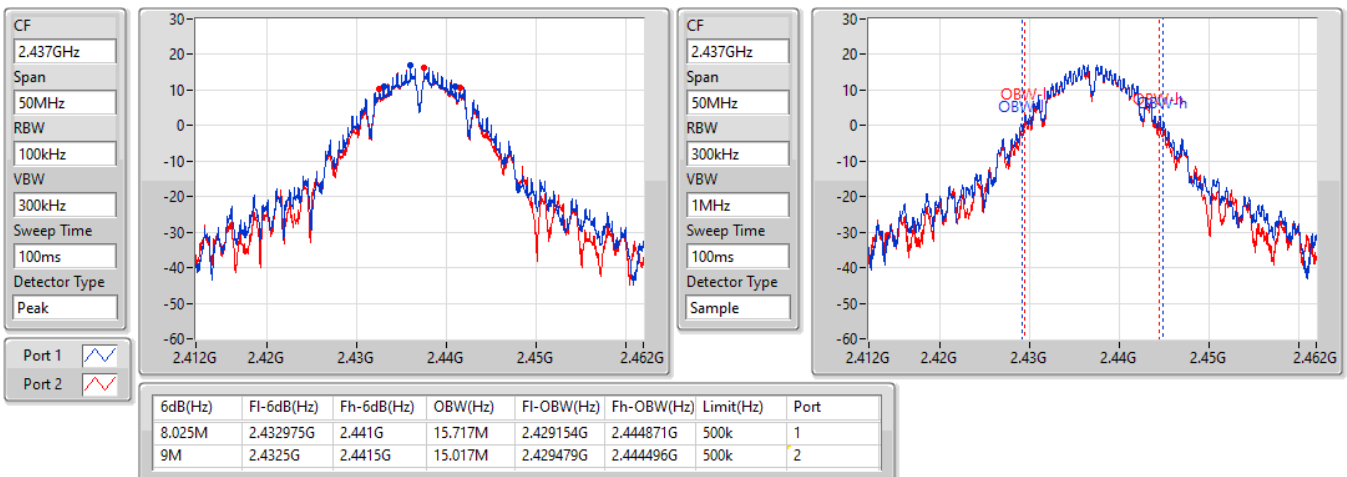
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

18/06/2022

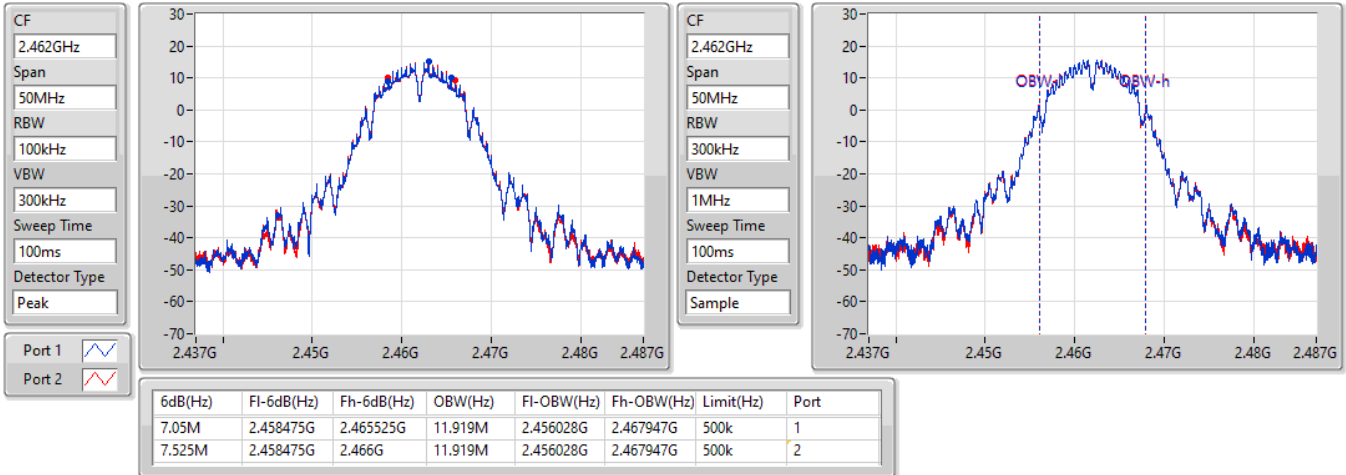

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

18/06/2022

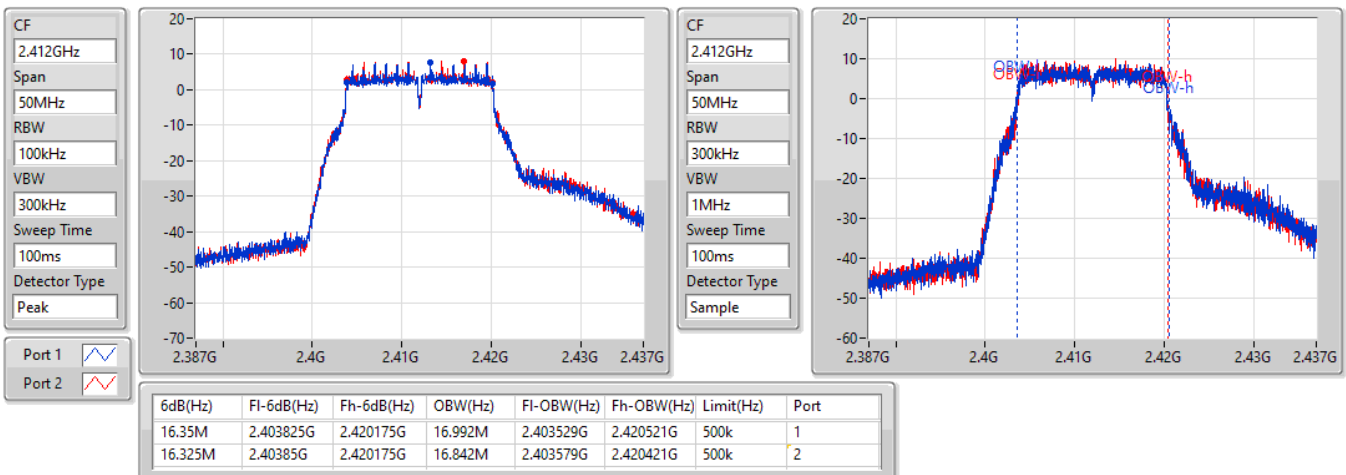


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

18/06/2022

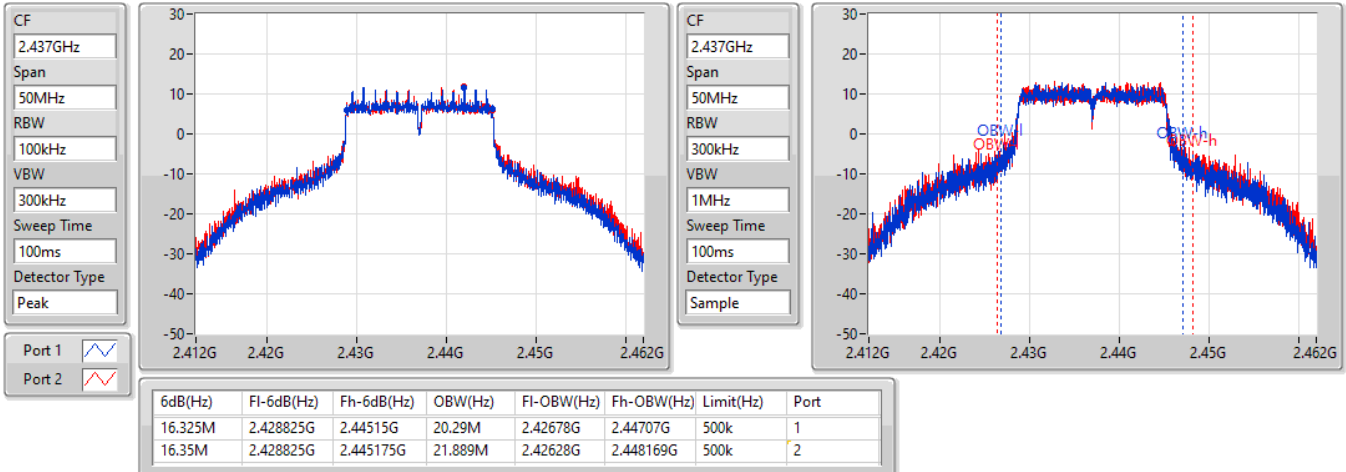

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

18/06/2022

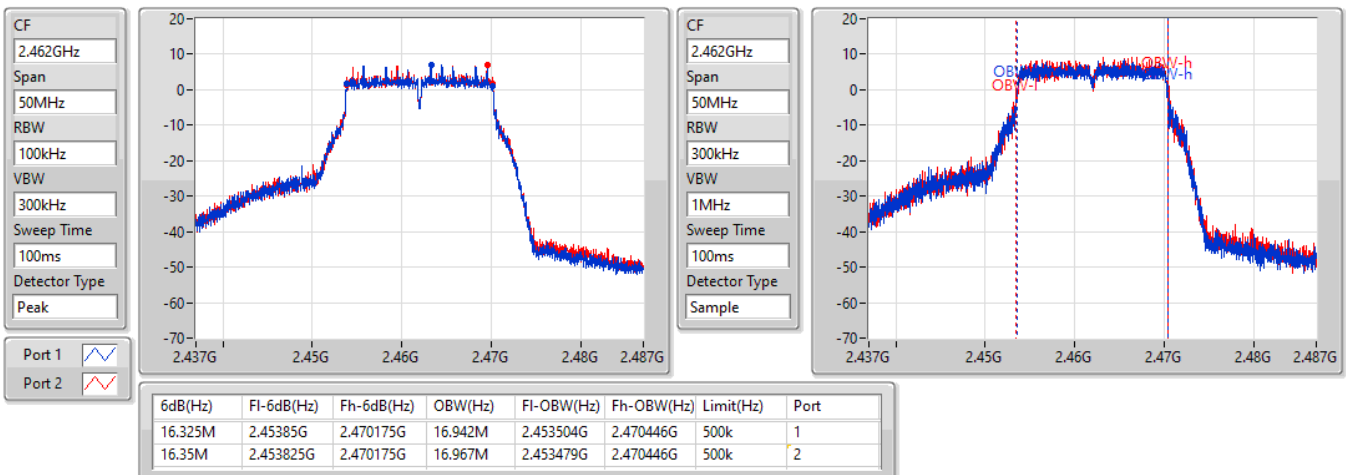


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

18/06/2022


802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

18/06/2022





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	18.9M	20.69M	20M7D1D	18.625M	19.04M

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

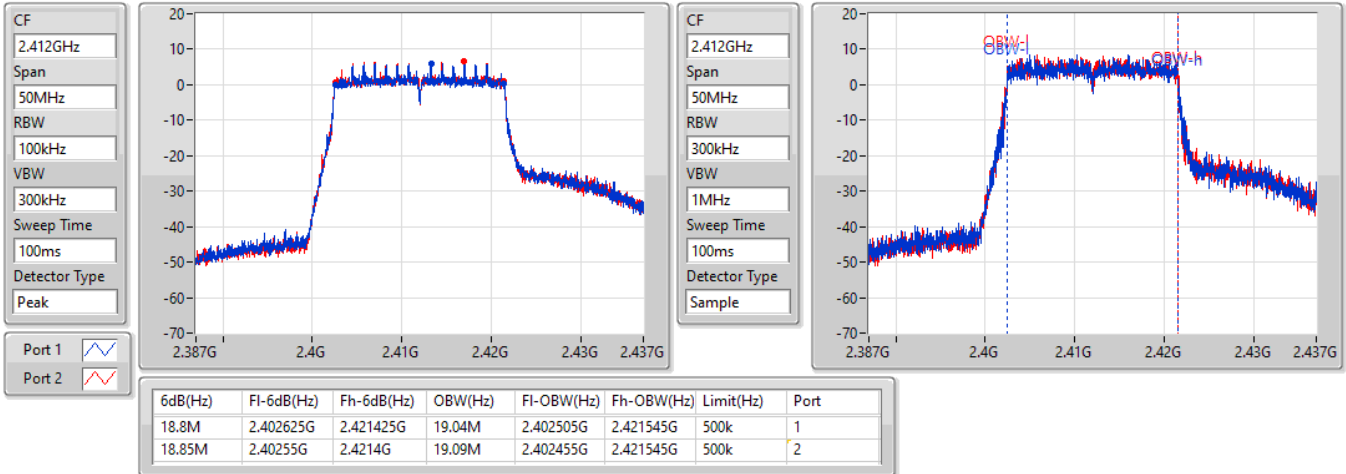
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.8M	19.04M	18.85M	19.09M
2437MHz	Pass	500k	18.9M	20.04M	18.85M	20.69M
2462MHz	Pass	500k	18.625M	19.115M	18.8M	19.14M

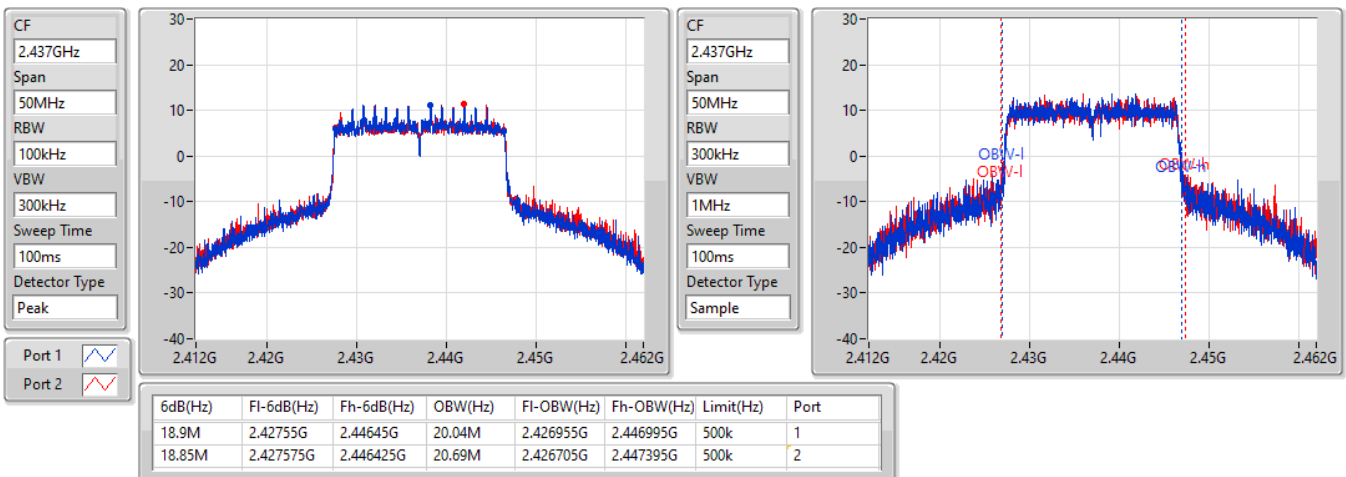
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
2412MHz

18/06/2022


802.11ax HEW20_Nss2,(MCS0)_2TX
EBW
2437MHz

18/06/2022

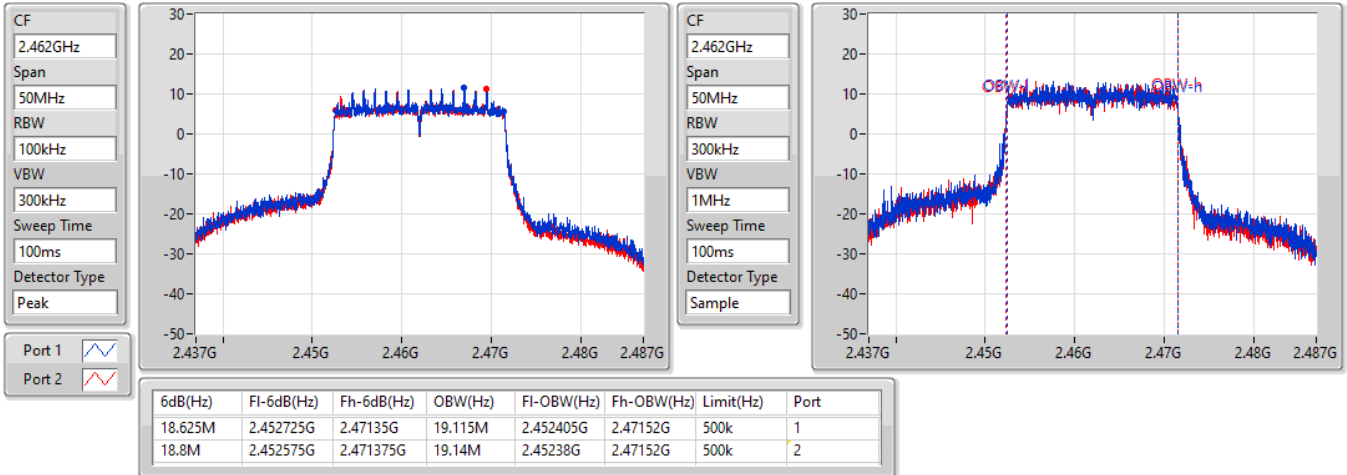


802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz

18/06/2022

EBW



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)_4TX	7.525M	11.919M	12M0G1D	6.55M	10.22M
802.11g_Nss1,(6Mbps)_4TX	16.35M	21.514M	21M6D1D	16.3M	16.842M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.925M	19.415M	19M5D1D	18.525M	19.04M

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

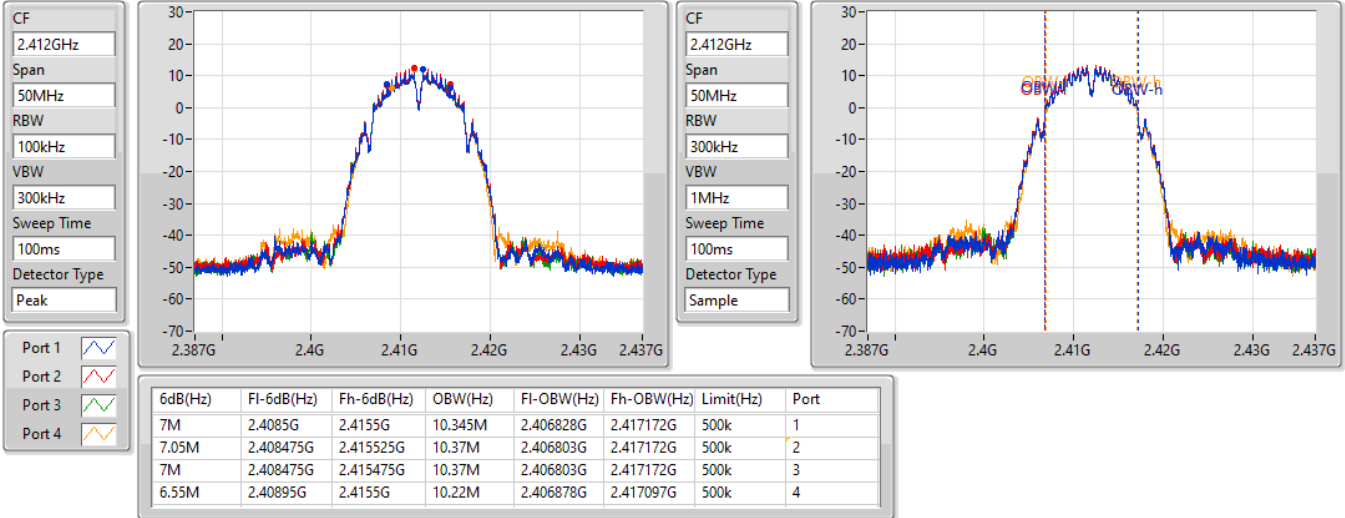
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	7M	10.345M	7.05M	10.37M	7M	10.37M	6.55M	10.22M
2437MHz	Pass	500k	7.525M	11.919M	7.05M	11.919M	7.025M	11.894M	7.05M	11.544M
2462MHz	Pass	500k	7.025M	11.544M	7.05M	11.569M	7.025M	11.494M	7.05M	11.019M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.917M	16.325M	16.992M	16.35M	16.992M	16.35M	16.842M
2437MHz	Pass	500k	16.35M	20.465M	16.35M	21.414M	16.3M	21.514M	16.325M	18.341M
2462MHz	Pass	500k	16.3M	16.867M	16.35M	16.992M	16.325M	16.942M	16.325M	16.942M
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.85M	19.04M	18.675M	19.065M	18.825M	19.065M	18.85M	19.065M
2437MHz	Pass	500k	18.925M	19.24M	18.85M	19.415M	18.875M	19.315M	18.9M	19.19M
2462MHz	Pass	500k	18.65M	19.215M	18.525M	19.19M	18.825M	19.24M	18.65M	19.14M

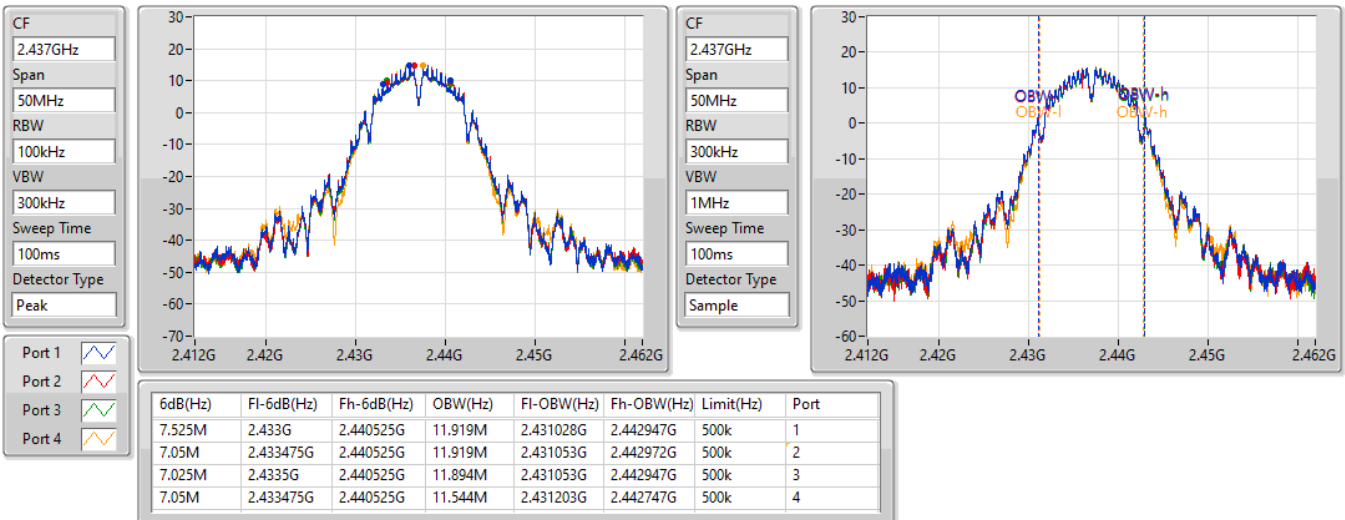
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_4TX
EBW
2412MHz

18/06/2022

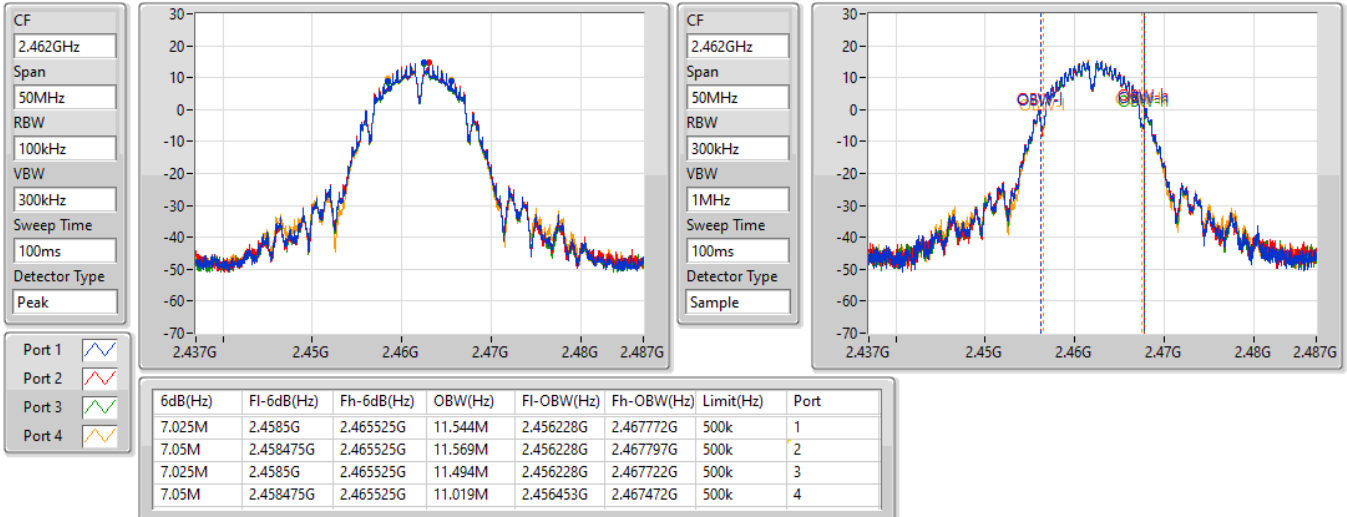

802.11b_Nss1,(1Mbps)_4TX
EBW
2437MHz

18/06/2022

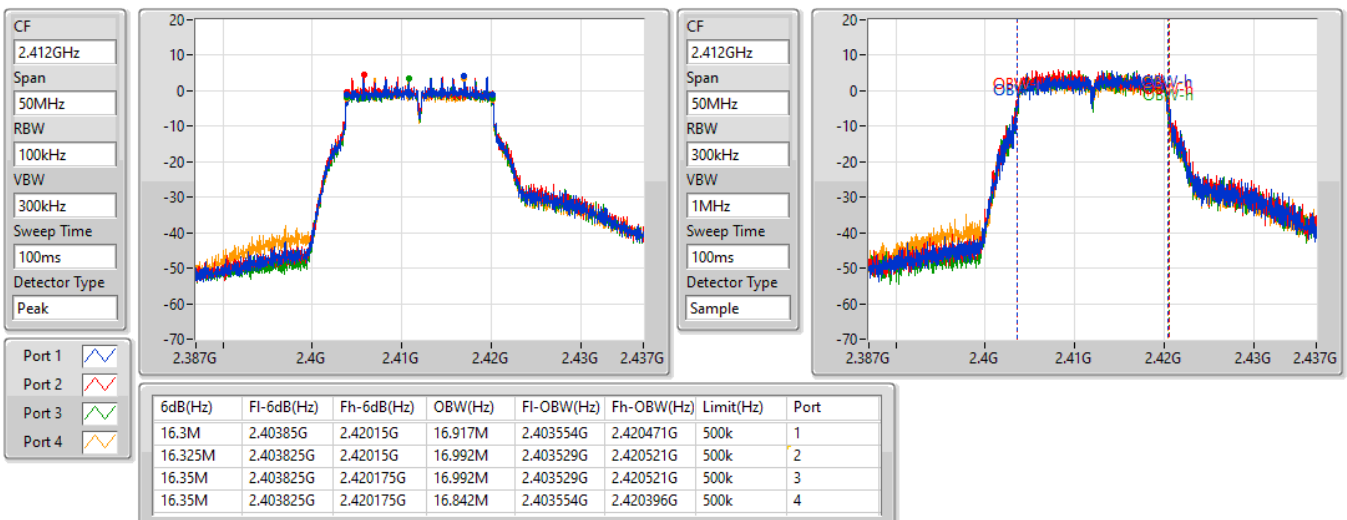


802.11b_Nss1,(1Mbps)_4TX
EBW
2462MHz

18/06/2022

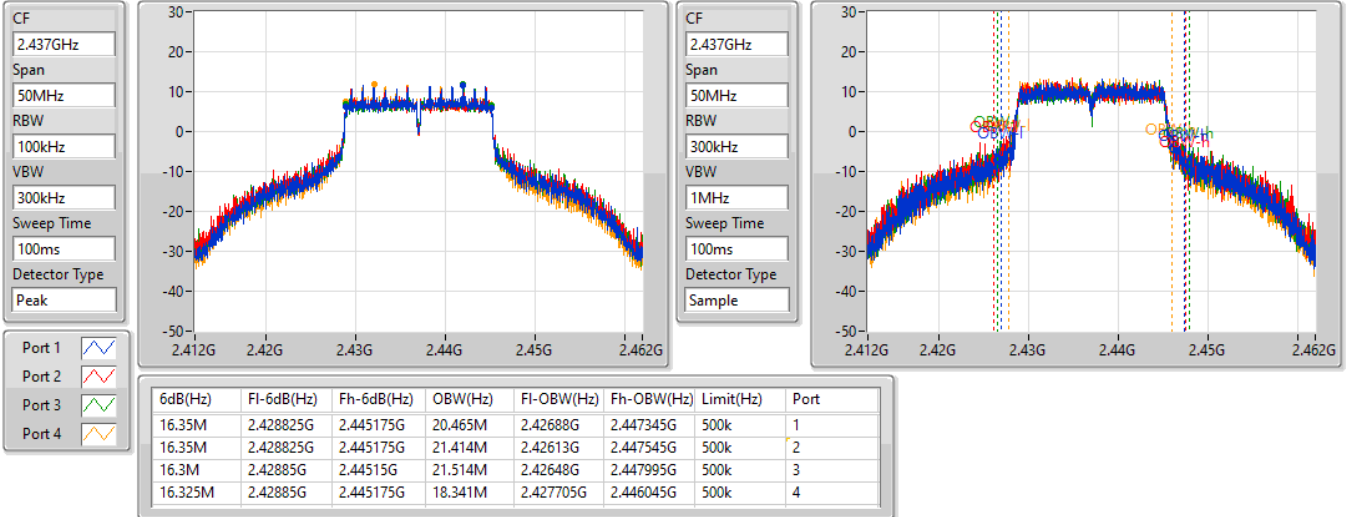

802.11g_Nss1,(6Mbps)_4TX
EBW
2412MHz

18/06/2022

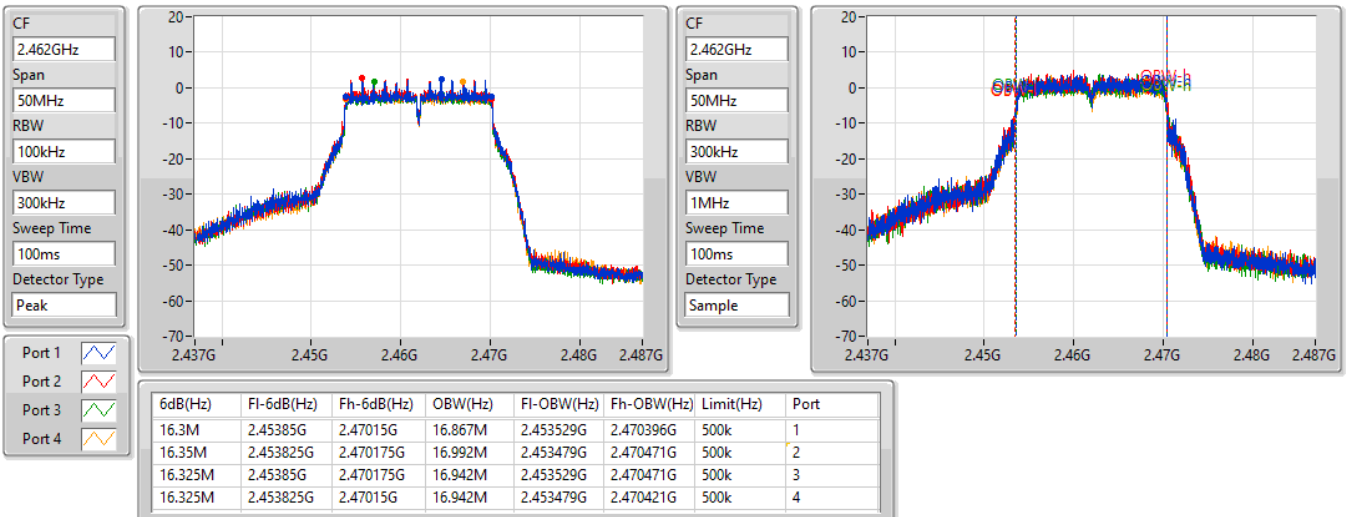


802.11g_Nss1,(6Mbps)_4TX
EBW
2437MHz

18/06/2022

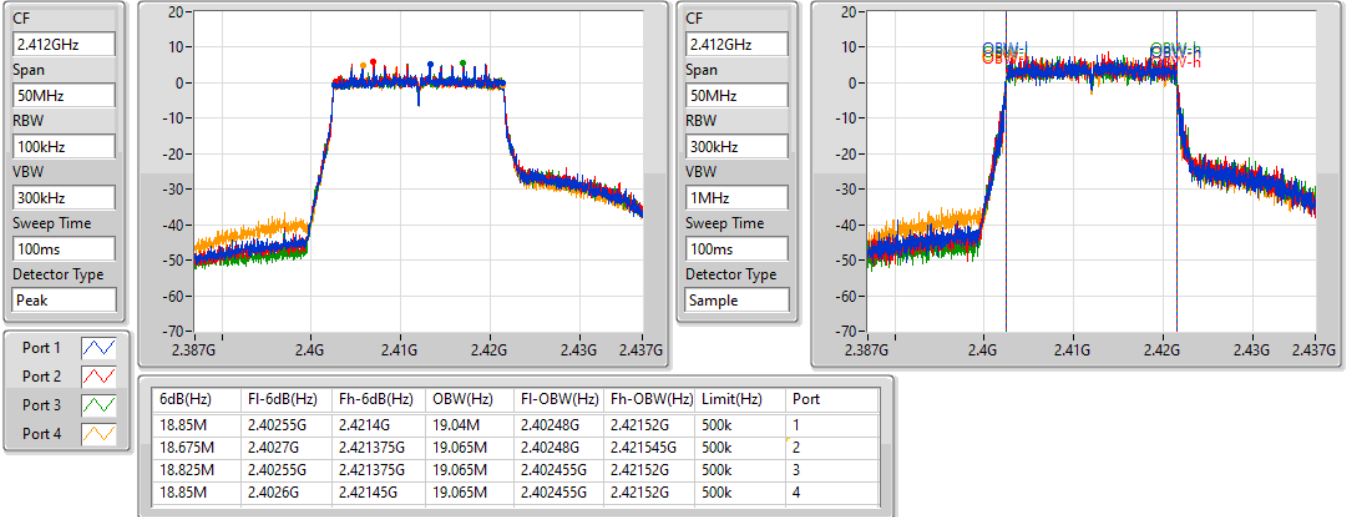

802.11g_Nss1,(6Mbps)_4TX
EBW
2462MHz

18/06/2022

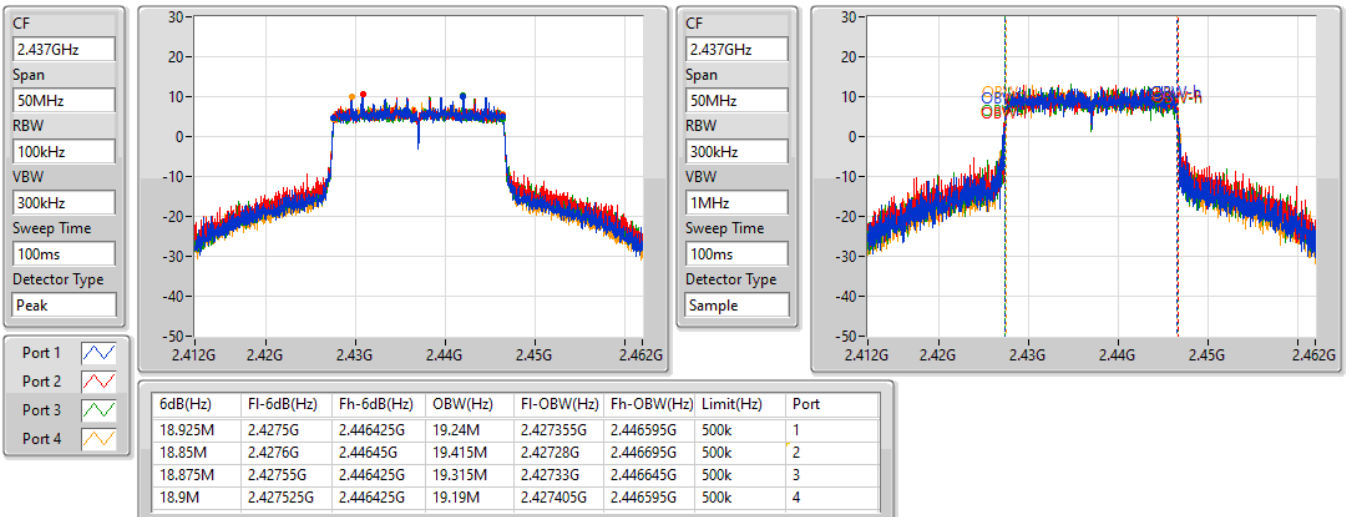


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2412MHz

18/06/2022


802.11ax HEW20_Nss1,(MCS0)_4TX
EBW
2437MHz

18/06/2022

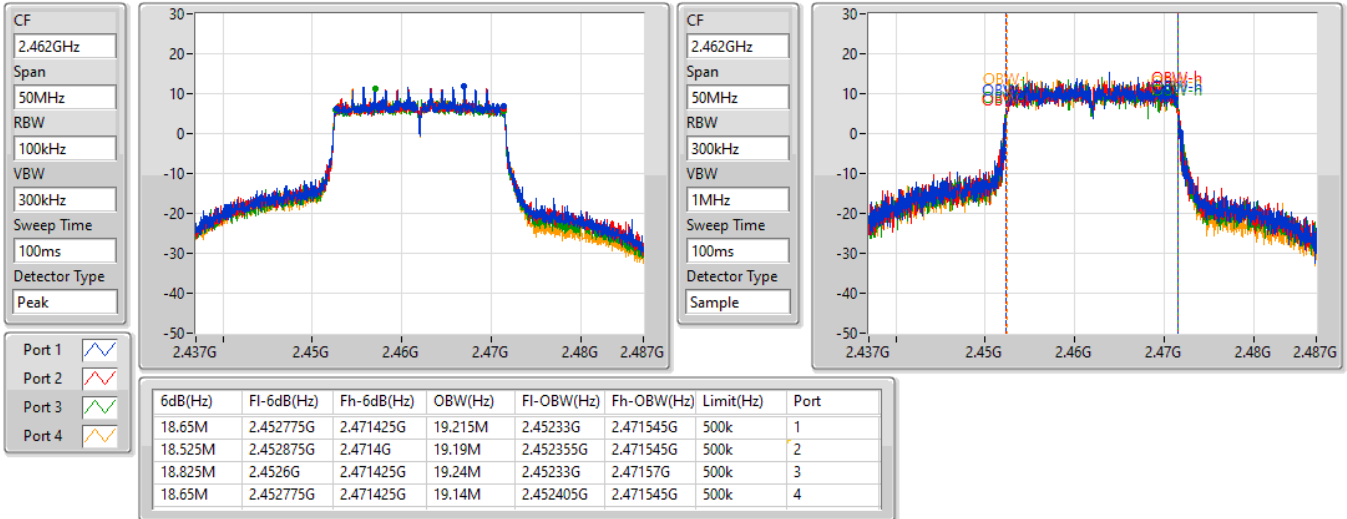


802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz

EBW

18/06/2022



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	18.875M	19.315M	19M4D1D	18.625M	19.04M

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

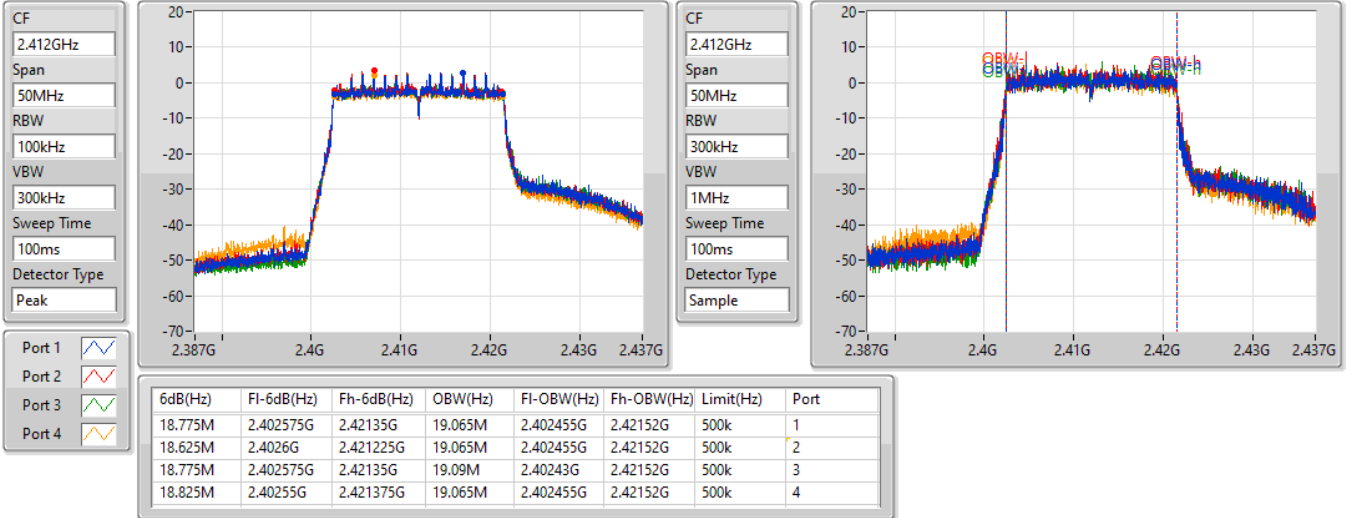
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.775M	19.065M	18.625M	19.065M	18.775M	19.09M	18.825M	19.065M
2437MHz	Pass	500k	18.85M	19.165M	18.825M	19.24M	18.825M	19.315M	18.875M	19.14M
2462MHz	Pass	500k	18.85M	19.065M	18.825M	19.09M	18.875M	19.04M	18.75M	19.04M

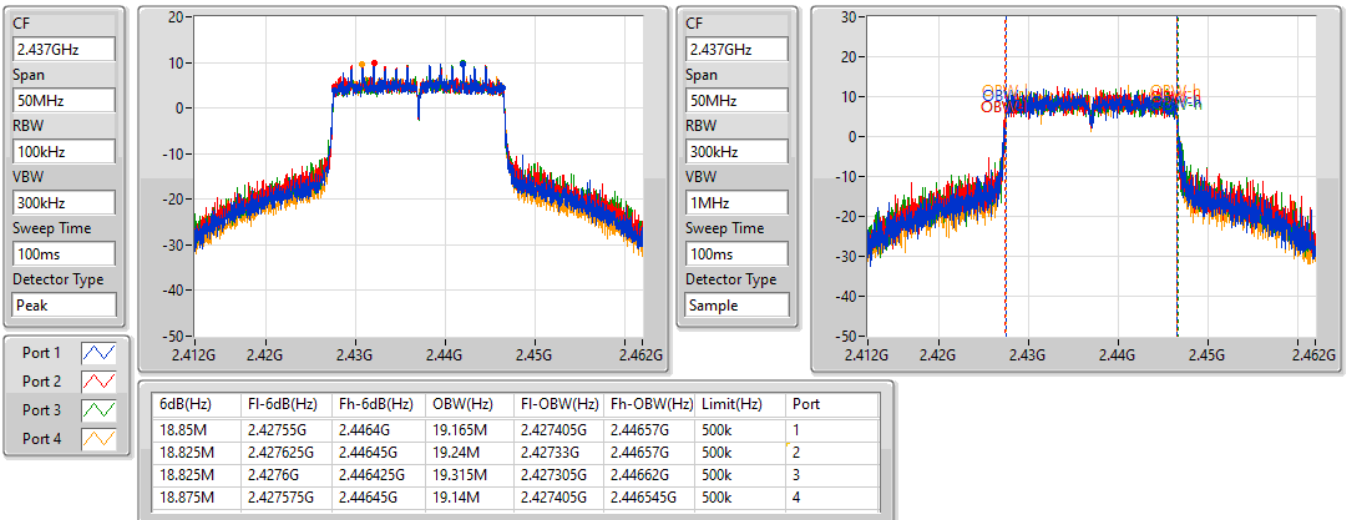
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
2412MHz

25/06/2022

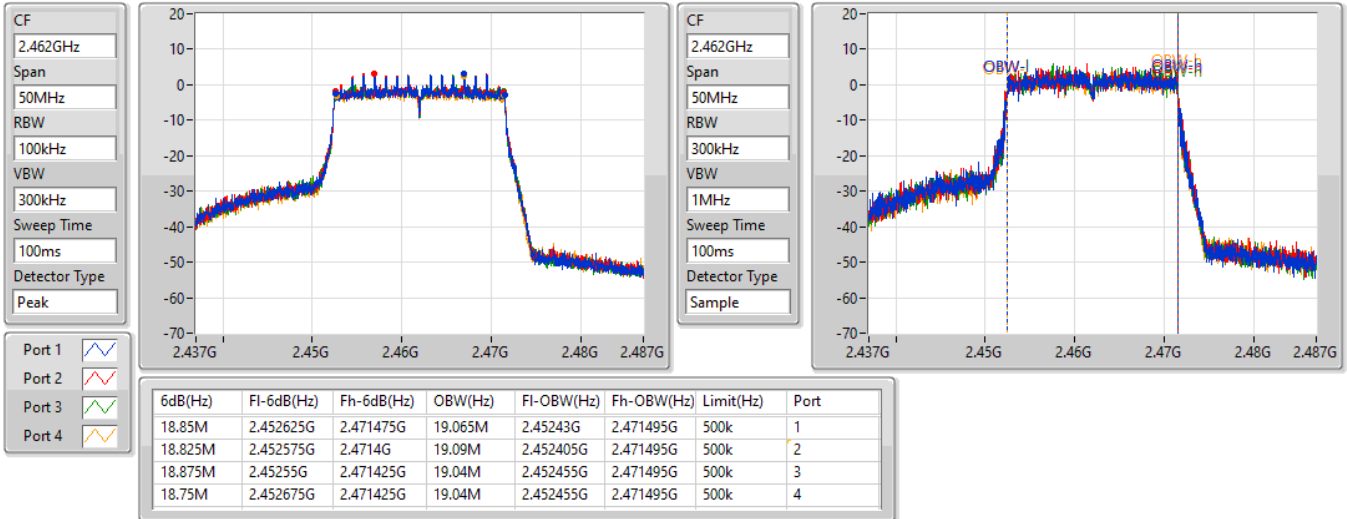

802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
2437MHz

25/06/2022



802.11ax HEW20_Nss4,(MCS0)_4TX
EBW
2462MHz

25/06/2022





Average Power_R1_1T1S

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	24.58	0.28708
802.11g_Nss1,(6Mbps)_1TX	22.89	0.19454
802.11ax HEW20_Nss1,(MCS0)_1TX	22.66	0.18450



Average Power_R1_1T1S

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	23.55	23.55	30.00
2417MHz	Pass	2.62	23.79	23.79	30.00
2437MHz	Pass	2.62	24.58	24.58	30.00
2457MHz	Pass	2.62	23.44	23.44	30.00
2462MHz	Pass	2.62	22.54	22.54	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	19.82	19.82	30.00
2417MHz	Pass	2.62	20.60	20.60	30.00
2437MHz	Pass	2.62	22.89	22.89	30.00
2457MHz	Pass	2.62	20.93	20.93	30.00
2462MHz	Pass	2.62	19.57	19.57	30.00
802.11ax_HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	19.43	19.43	30.00
2417MHz	Pass	2.62	20.73	20.73	30.00
2437MHz	Pass	2.62	22.66	22.66	30.00
2457MHz	Pass	2.62	20.64	20.64	30.00
2462MHz	Pass	2.62	19.06	19.06	30.00

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



Average Power_R1_2T1S

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.42	0.34834
802.11g_Nss1,(6Mbps)_2TX	25.27	0.33651



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.11	22.35	22.31	25.34	30.00
2417MHz	Pass	3.11	22.28	22.33	25.32	30.00
2437MHz	Pass	3.11	22.42	22.40	25.42	30.00
2457MHz	Pass	3.11	22.36	22.38	25.38	30.00
2462MHz	Pass	3.11	22.36	22.39	25.39	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.11	18.26	18.53	21.41	30.00
2417MHz	Pass	3.11	20.02	20.14	23.09	30.00
2437MHz	Pass	3.11	22.32	22.19	25.27	30.00
2457MHz	Pass	3.11	19.99	20.24	23.13	30.00
2462MHz	Pass	3.11	17.49	17.81	20.66	30.00

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



Average Power_R1_2T2S

Appendix C.3

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	25.08	0.32211



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.11	16.60	16.90	19.76	30.00
2417MHz	Pass	3.11	19.38	19.92	22.67	30.00
2437MHz	Pass	3.11	22.08	22.06	25.08	30.00
2457MHz	Pass	3.11	19.93	20.20	23.08	30.00
2462MHz	Pass	3.11	21.76	21.66	24.72	30.00

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



Average Power_R1_4T1S_Non beamforming mode

Appendix C.4

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	28.57	0.71945
802.11g_Nss1,(6Mbps)_4TX	28.29	0.67453
802.11ax HEW20_Nss1,(MCS0)_4TX	28.03	0.63533

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.63	19.51	19.98	19.58	19.54	25.68	30.00
2417MHz	Pass	4.63	20.04	20.66	20.29	20.42	26.38	30.00
2437MHz	Pass	4.63	22.57	22.63	22.27	22.70	28.57	30.00
2457MHz	Pass	4.63	22.39	22.43	22.21	21.56	28.18	30.00
2462MHz	Pass	4.63	22.05	22.15	21.80	22.16	28.06	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.63	14.41	14.67	14.34	14.11	20.41	30.00
2417MHz	Pass	4.63	18.23	18.58	18.21	18.07	24.30	30.00
2437MHz	Pass	4.63	22.23	22.26	22.11	22.47	28.29	30.00
2457MHz	Pass	4.63	19.04	19.51	19.24	19.11	25.25	30.00
2462MHz	Pass	4.63	12.81	13.03	12.72	12.30	18.74	30.00
802.11ax_HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.63	15.79	16.05	15.71	15.60	21.81	30.00
2417MHz	Pass	4.63	19.11	19.46	19.06	19.05	25.19	30.00
2437MHz	Pass	4.63	21.13	21.49	21.07	21.52	27.33	30.00
2457MHz	Pass	4.63	18.12	18.55	18.08	17.98	24.21	30.00
2462MHz	Pass	4.63	22.16	22.17	21.67	22.01	28.03	30.00

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



Average Power_R1_4T1S_Beamforming mode

Appendix C.5

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.03	0.63533



Average Power_R1_4T1S_Beamforming mode

Appendix C.5

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.68	15.79	16.05	15.71	15.6	21.81	28.32
2417MHz	Pass	7.68	19.11	19.46	19.06	19.05	25.19	28.32
2437MHz	Pass	7.68	21.13	21.49	21.07	21.52	27.33	28.32
2457MHz	Pass	7.68	18.12	18.55	18.08	17.98	24.21	28.32
2462MHz	Pass	7.68	22.16	22.17	21.67	22.01	28.03	28.32

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



Average Power_R1_4T4S

Appendix C.6

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	27.07	0.50933



Average Power_R1_4T4S

Appendix C.6

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.63	13.35	13.76	13.42	12.87	19.38	30.00
2417MHz	Pass	4.63	16.46	16.75	16.52	16.41	22.56	30.00
2437MHz	Pass	4.63	21.03	21.11	21.03	21.04	27.07	30.00
2457MHz	Pass	4.63	18.36	18.76	18.56	18.23	24.50	30.00
2462MHz	Pass	4.63	13.61	13.99	13.93	13.23	19.72	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	1.67
802.11g_Nss1,(6Mbps)_1TX	-2.62
802.11ax HEW20_Nss1,(MCS0)_1TX	-3.01

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	1.30	1.30	8.00
2437MHz	Pass	2.62	1.67	1.67	8.00
2462MHz	Pass	2.62	0.41	0.41	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	-6.43	-6.43	8.00
2437MHz	Pass	2.62	-2.62	-2.62	8.00
2462MHz	Pass	2.62	-5.95	-5.95	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.62	-6.78	-6.78	8.00
2437MHz	Pass	2.62	-3.01	-3.01	8.00
2462MHz	Pass	2.62	-8.14	-8.14	8.00

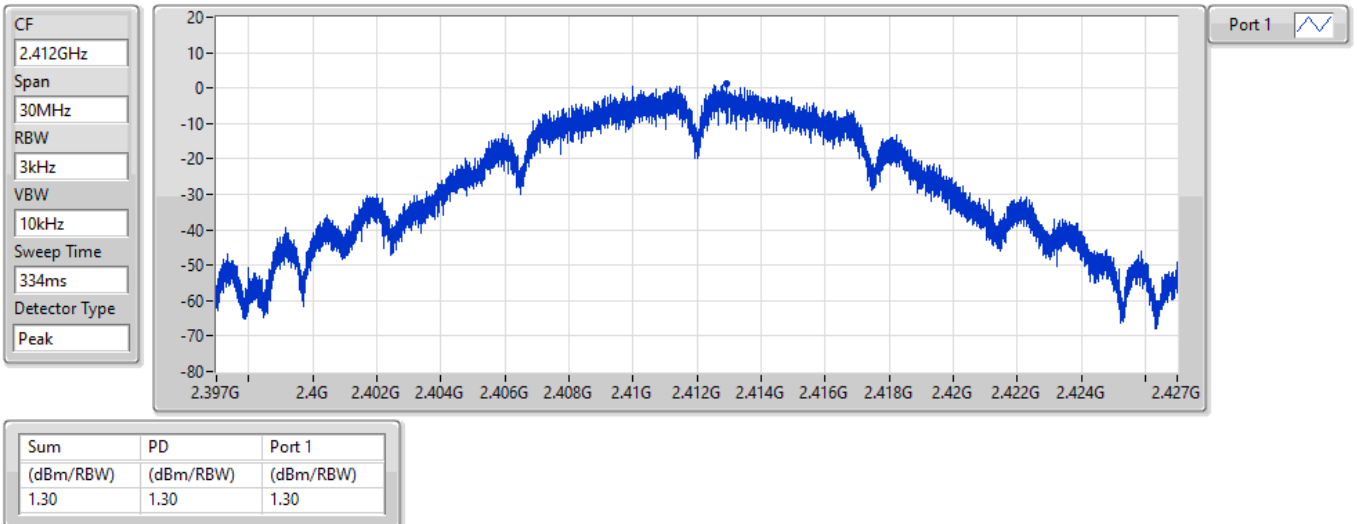
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

18/06/2022

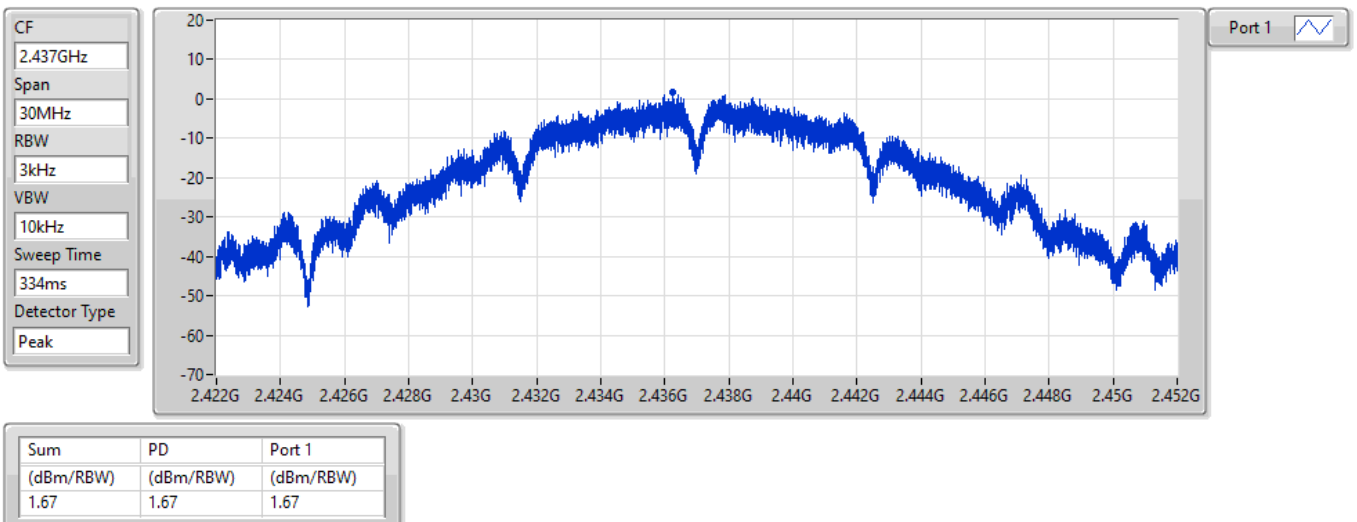


802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

18/06/2022

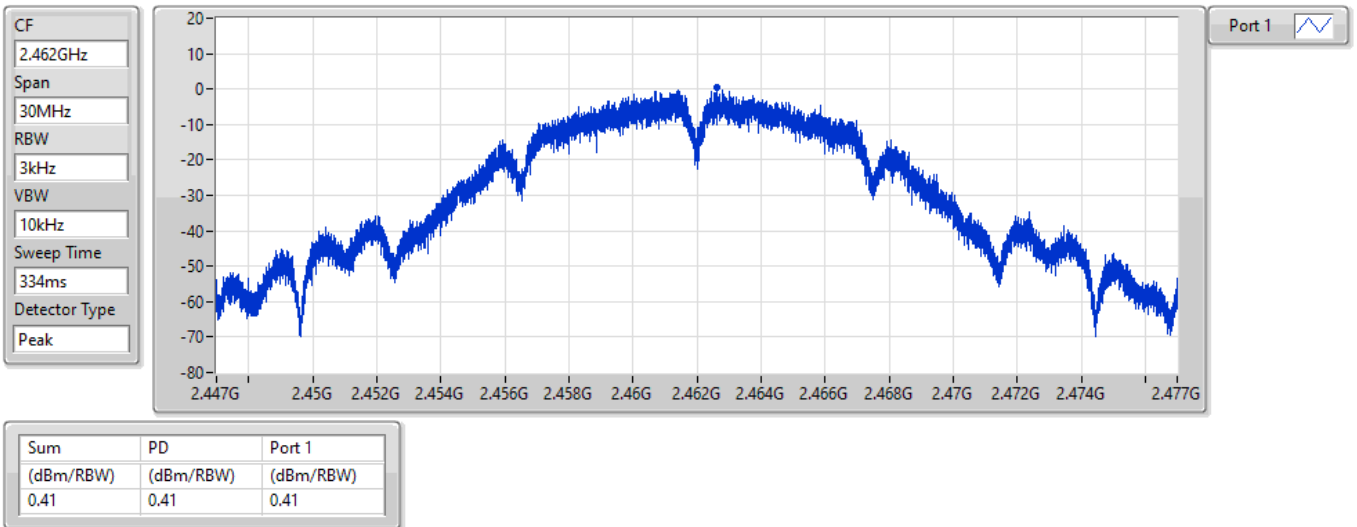


802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

18/06/2022

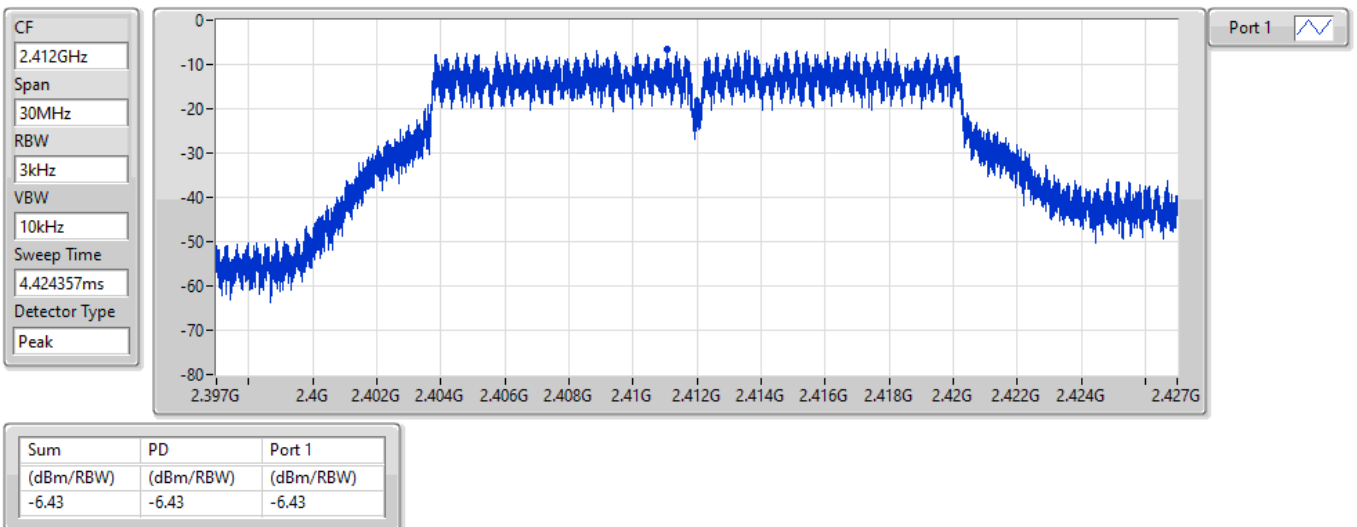


802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

18/06/2022

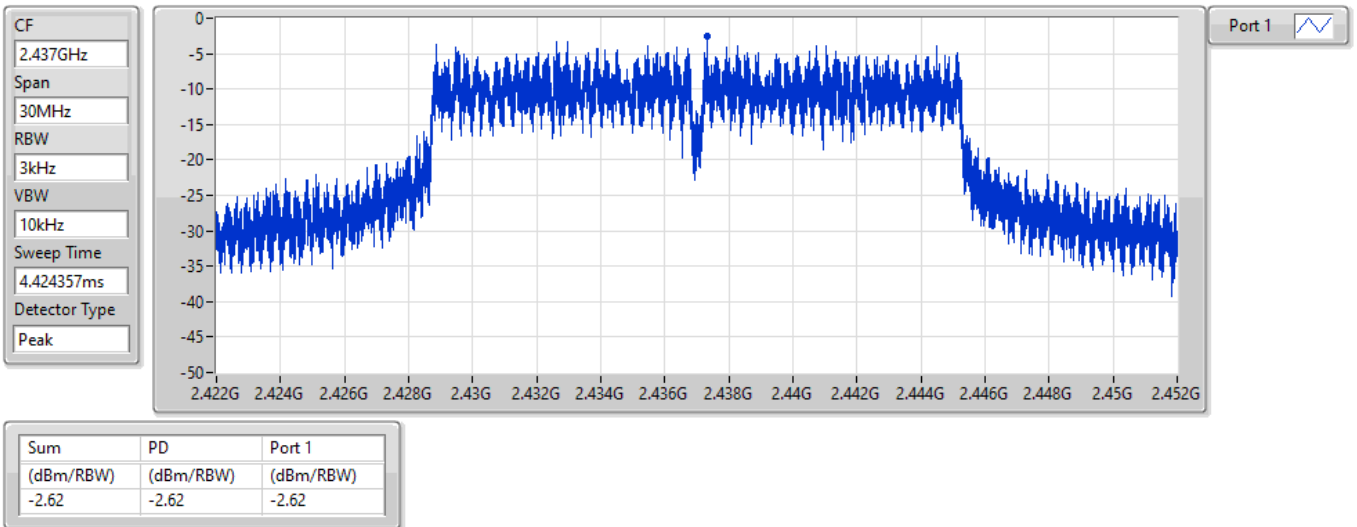


802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

18/06/2022

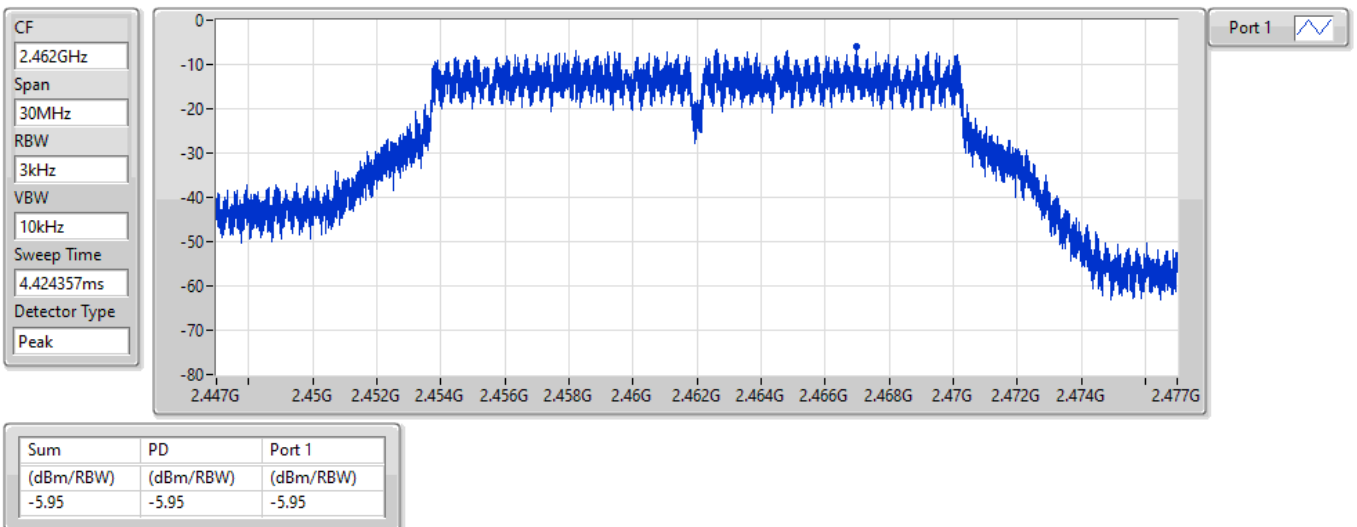


802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

18/06/2022

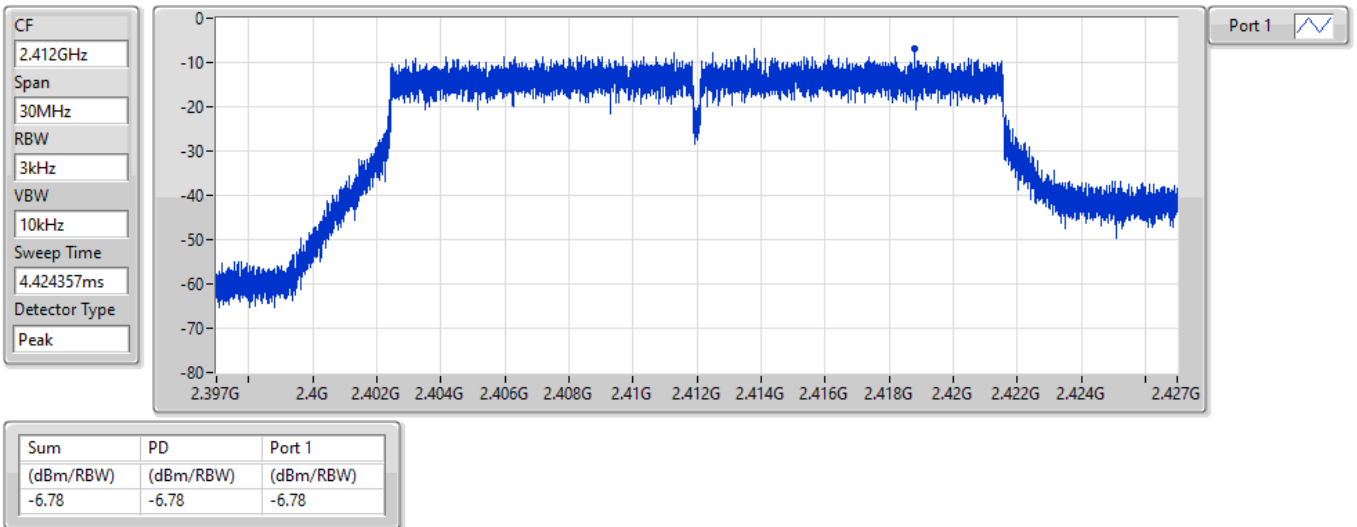


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

18/06/2022

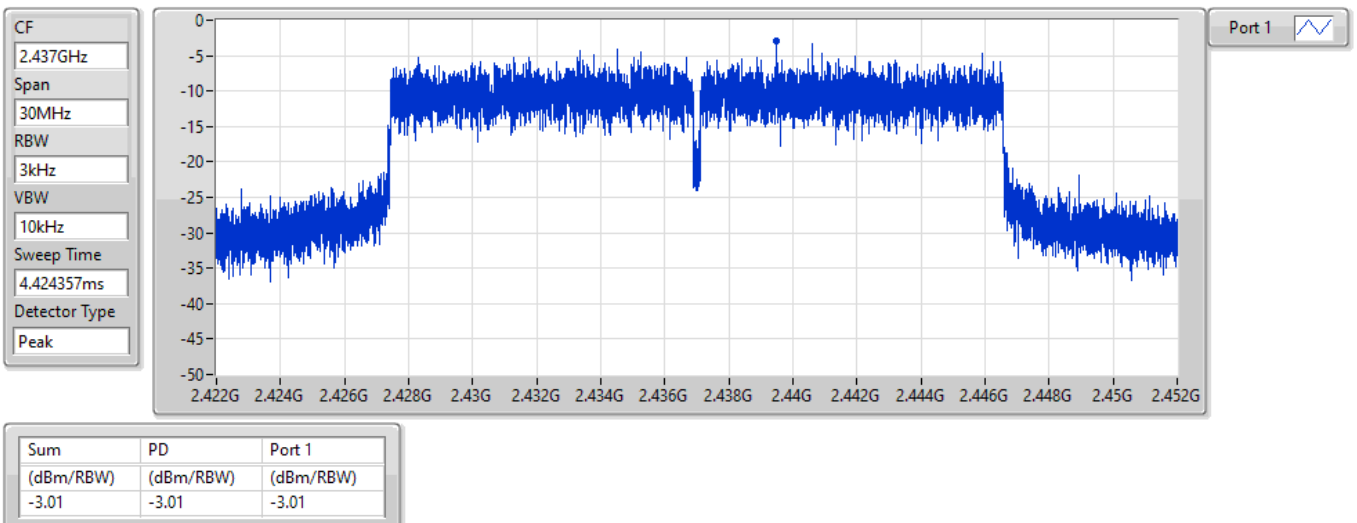


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

18/06/2022

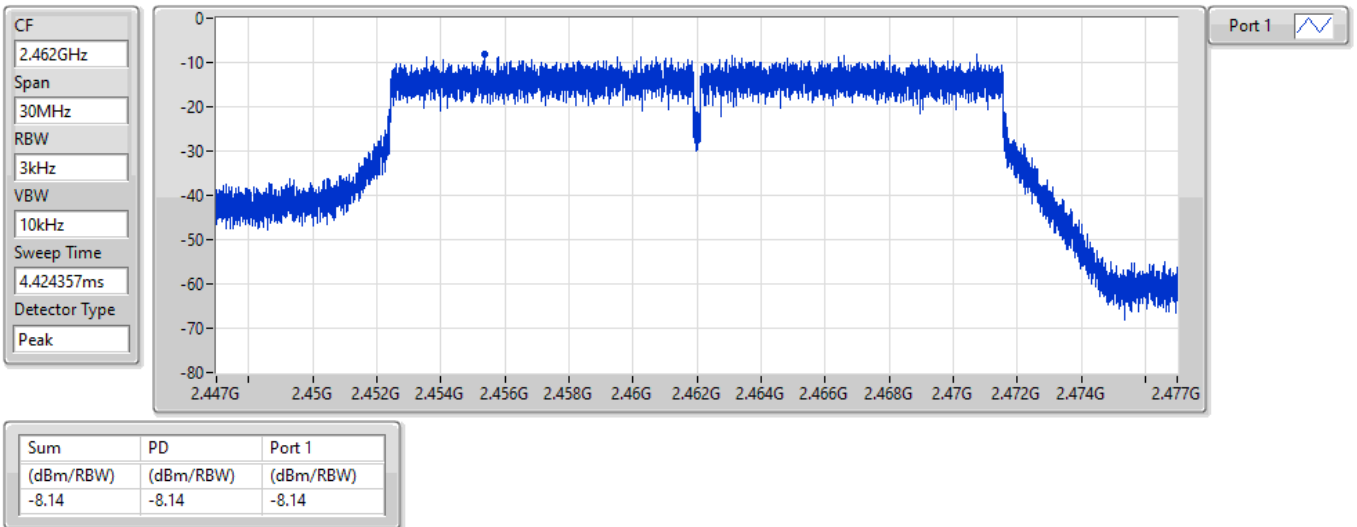


802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

18/06/2022





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.31
802.11g_Nss1,(6Mbps)_2TX	-0.11

RBW = 3kHz;



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	4.72	-0.83	-0.14	1.09	8.00
2437MHz	Pass	4.72	-1.91	-0.59	1.12	8.00
2462MHz	Pass	4.72	-1.46	-1.26	1.31	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.72	-7.29	-7.18	-5.73	8.00
2437MHz	Pass	4.72	-3.22	-1.94	-0.11	8.00
2462MHz	Pass	4.72	-7.55	-7.38	-6.13	8.00

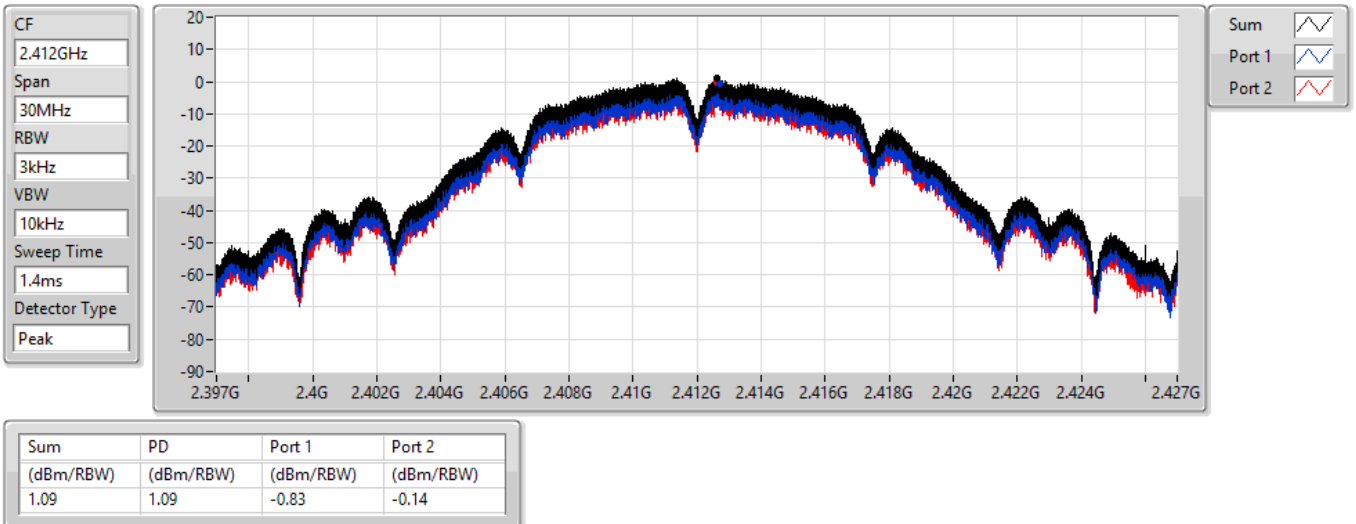
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

02/09/2022

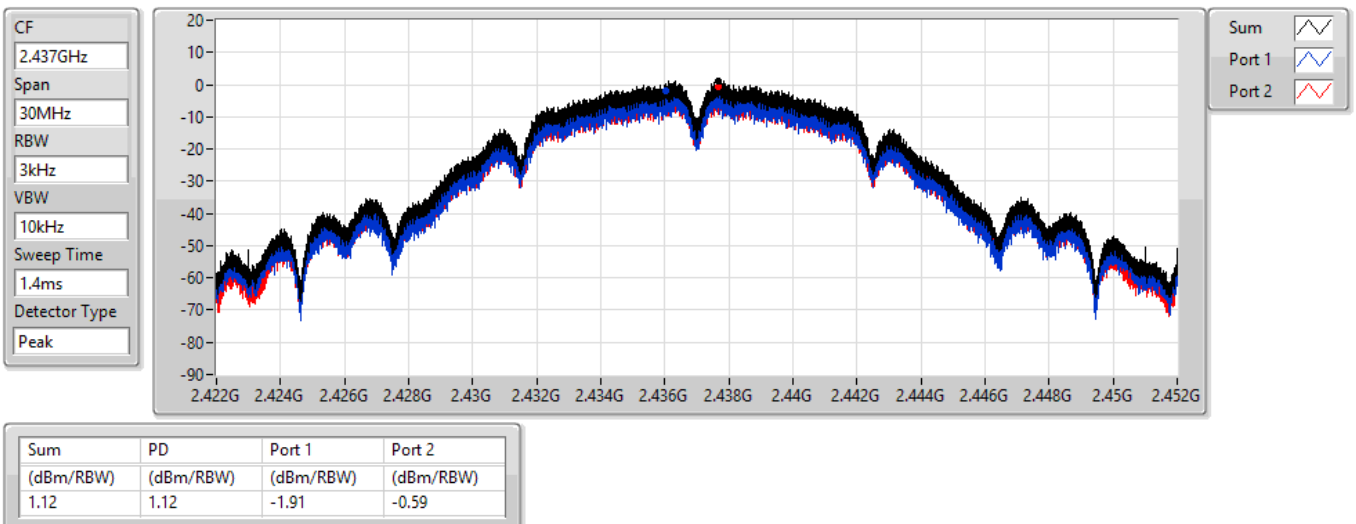


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

02/09/2022

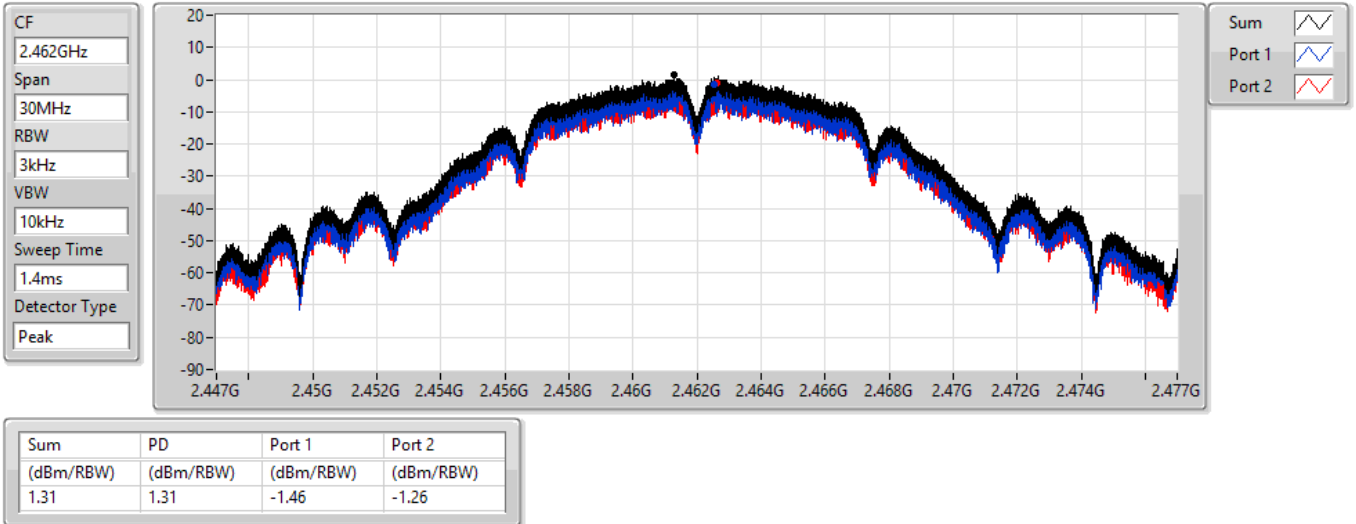


802.11b_Nss1,(1Mbps)_2TX

2462MHz

PSD

02/09/2022

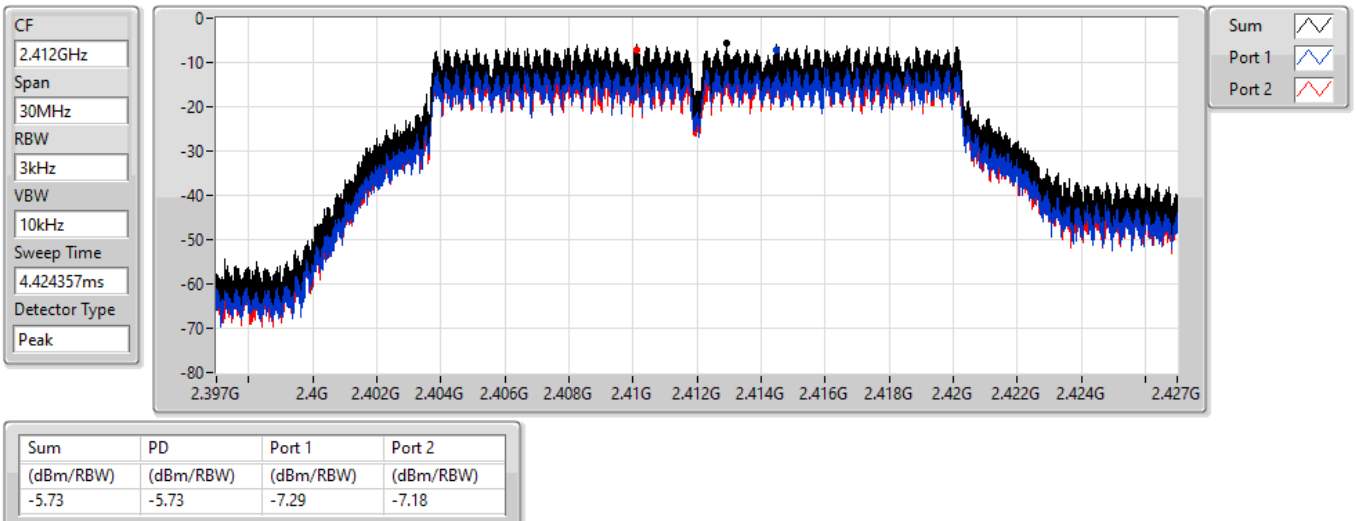


802.11g_Nss1,(6Mbps)_2TX

2412MHz

PSD

18/06/2022

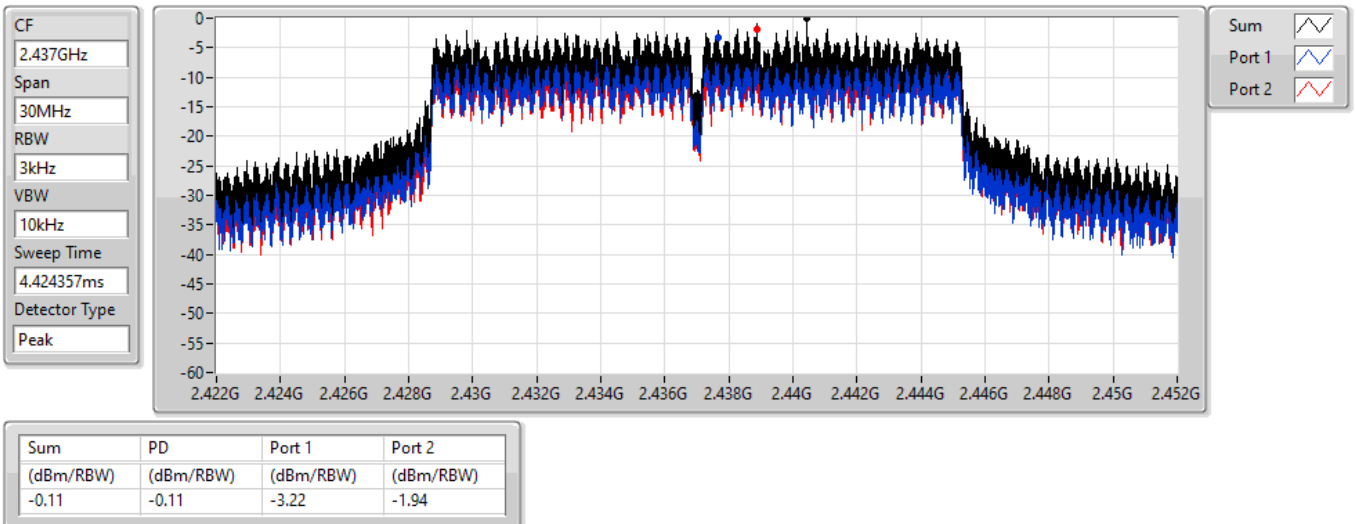


802.11g_Nss1,(6Mbps)_2TX

2437MHz

PSD

18/06/2022

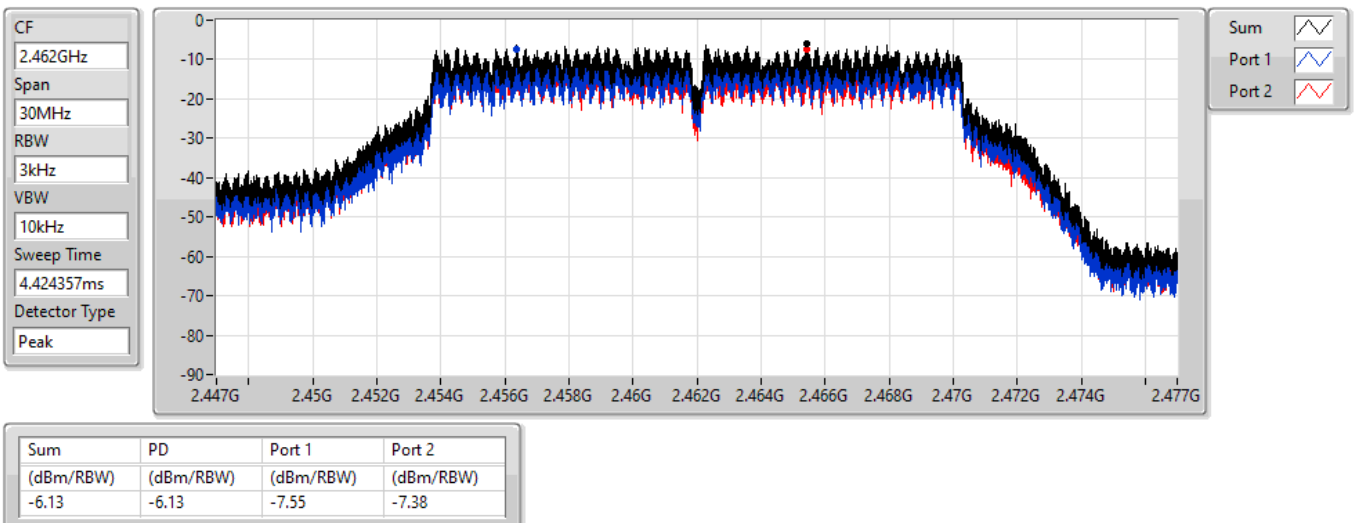


802.11g_Nss1,(6Mbps)_2TX

2462MHz

PSD

18/06/2022





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss2,(MCS0)_2TX	-1.95

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.11	-8.79	-8.72	-7.09	8.00
2437MHz	Pass	3.11	-4.01	-3.66	-1.95	8.00
2462MHz	Pass	3.11	-3.97	-3.88	-2.69	8.00

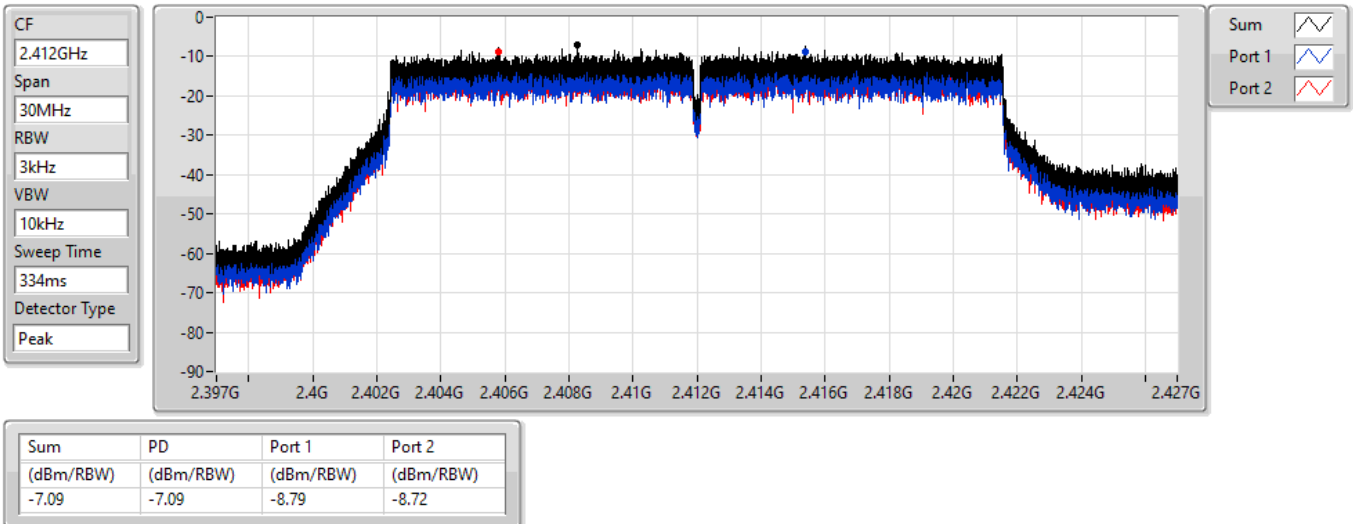
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2412MHz

18/06/2022

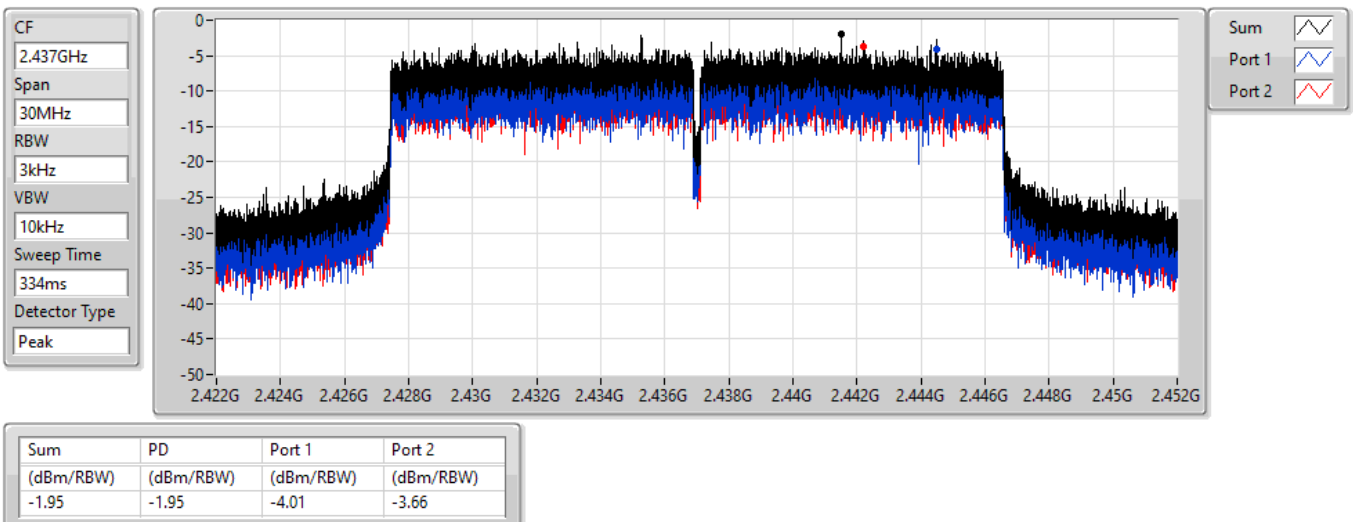


802.11ax HEW20_Nss2,(MCS0)_2TX

PSD

2437MHz

18/06/2022

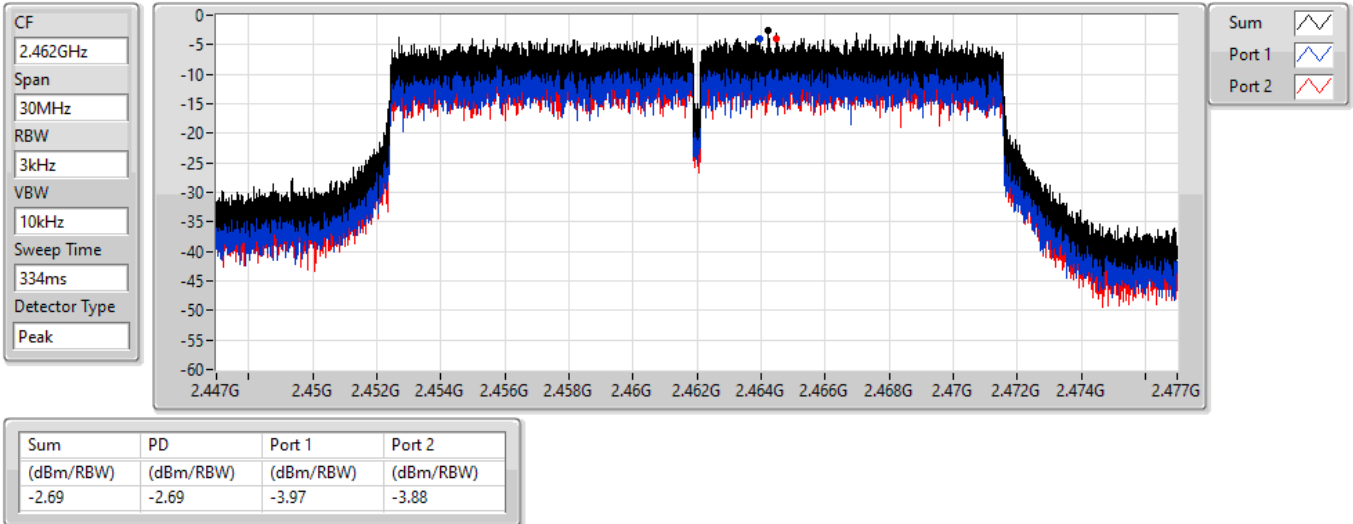


802.11ax HEW20_Nss2,(MCS0)_2TX

2462MHz

PSD

18/06/2022





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	4.81
802.11g_Nss1,(6Mbps)_4TX	1.30
802.11ax HEW20_Nss1,(MCS0)_4TX	0.00

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.68	-2.35	-2.64	-2.21	-2.72	2.62	6.32
2437MHz	Pass	7.68	0.53	1.39	-0.30	1.33	4.81	6.32
2462MHz	Pass	7.68	-0.84	0.42	-0.02	0.90	4.17	6.32
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.68	-10.86	-10.73	-10.58	-10.59	-7.00	6.32
2437MHz	Pass	7.68	-3.28	-2.66	-3.32	-3.31	1.30	6.32
2462MHz	Pass	7.68	-12.65	-11.50	-12.65	-12.94	-8.57	6.32
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.68	-10.61	-9.63	-10.78	-9.84	-6.36	6.32
2437MHz	Pass	7.68	-4.18	-4.02	-4.84	-4.23	-0.59	6.32
2462MHz	Pass	7.68	-4.40	-3.97	-3.74	-4.14	0.00	6.32

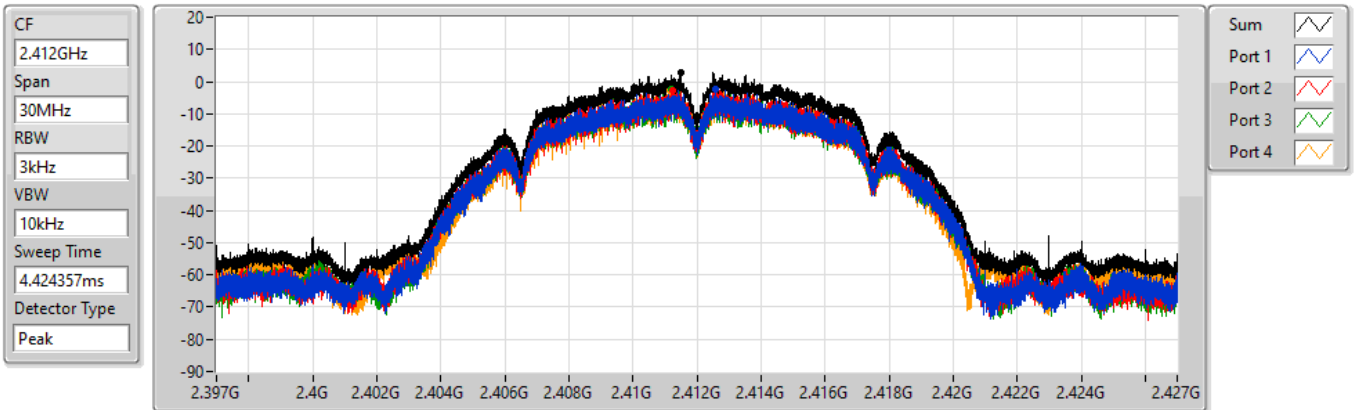
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_4TX

PSD

2412MHz

18/06/2022



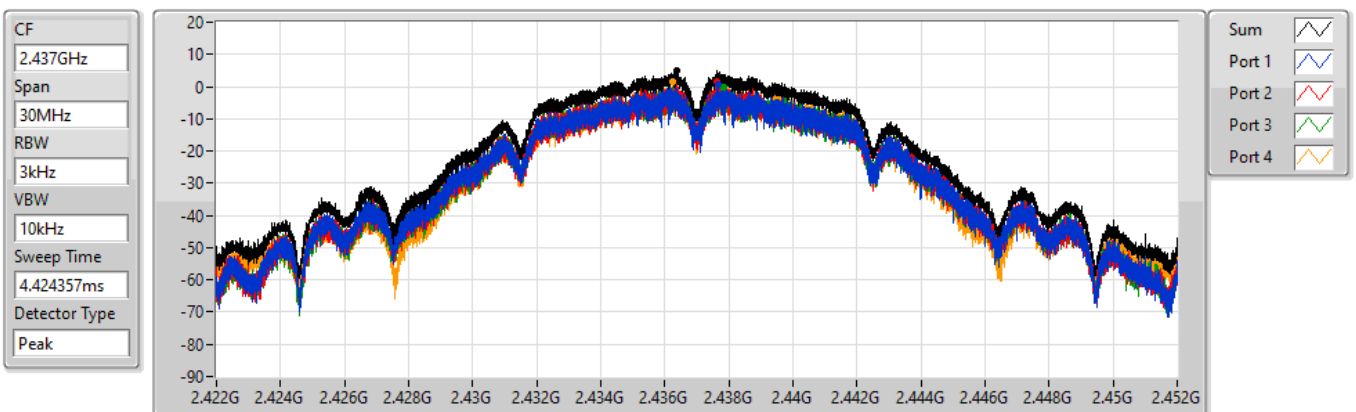
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.62	2.62	-2.35	-2.64	-2.21	-2.72

802.11b_Nss1,(1Mbps)_4TX

PSD

2437MHz

18/06/2022



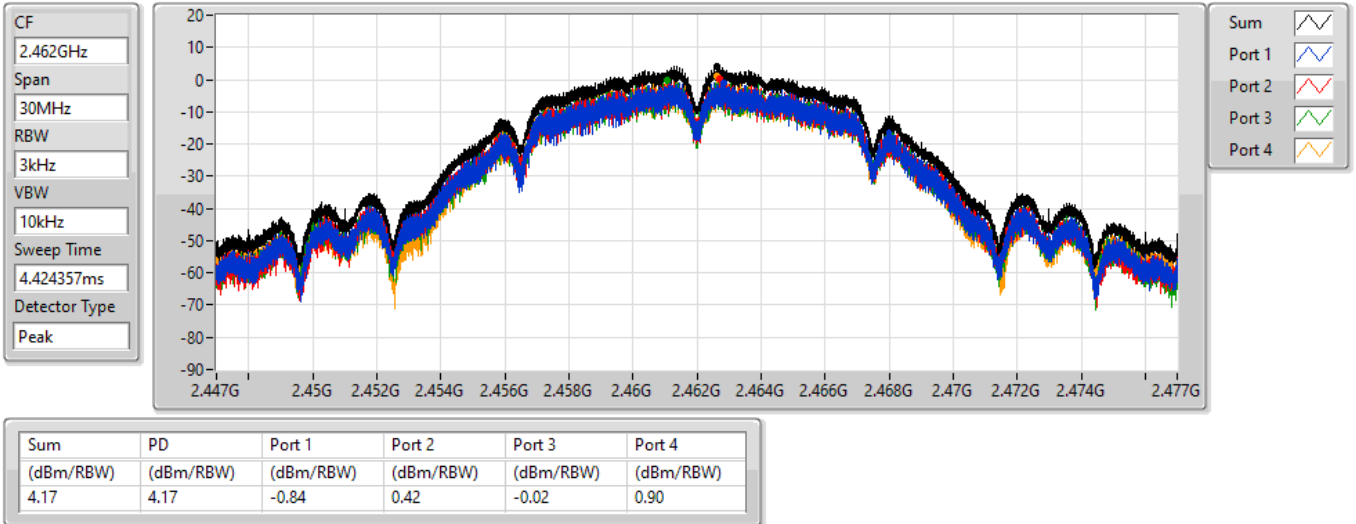
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.81	4.81	0.53	1.39	-0.30	1.33

802.11b_Nss1,(1Mbps)_4TX

2462MHz

PSD

18/06/2022

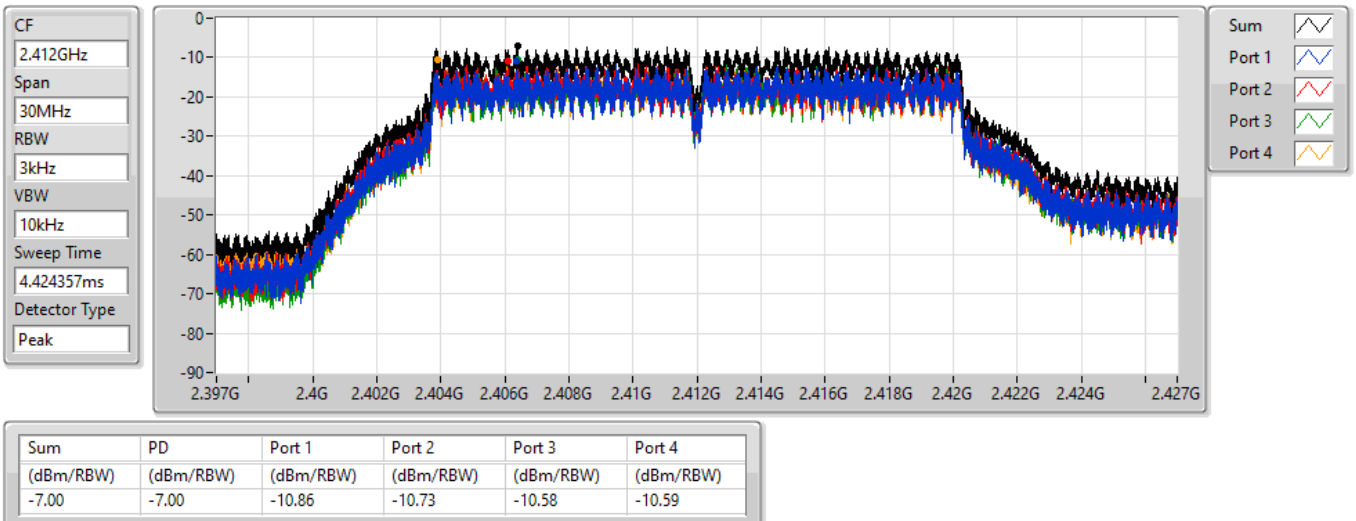


802.11g_Nss1,(6Mbps)_4TX

2412MHz

PSD

18/06/2022

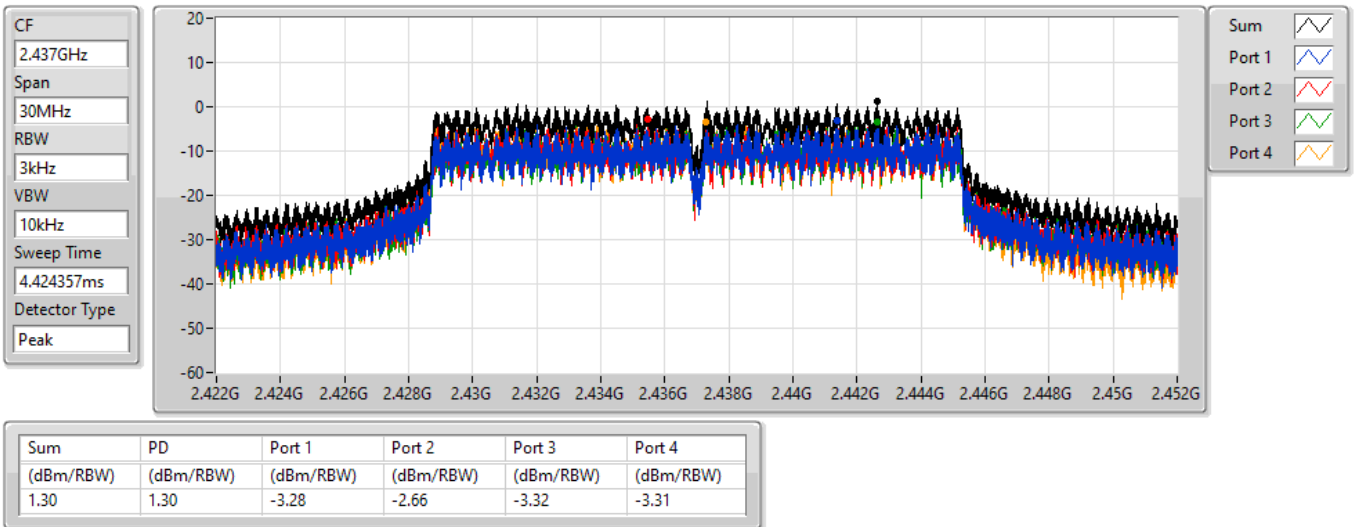


802.11g_Nss1,(6Mbps)_4TX

2437MHz

PSD

18/06/2022

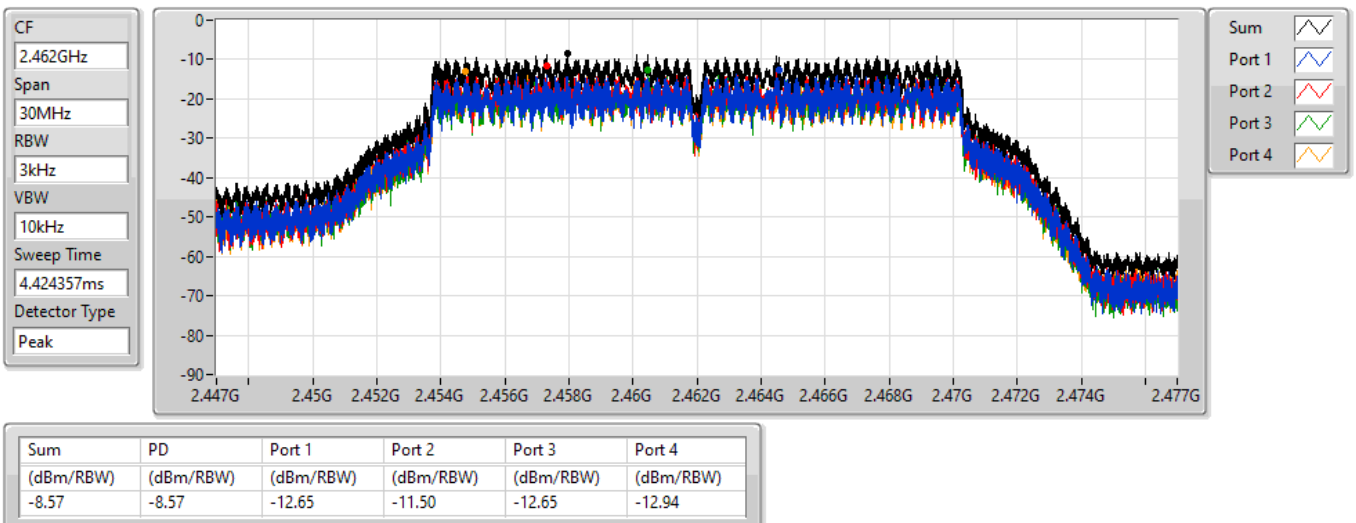


802.11g_Nss1,(6Mbps)_4TX

2462MHz

PSD

18/06/2022

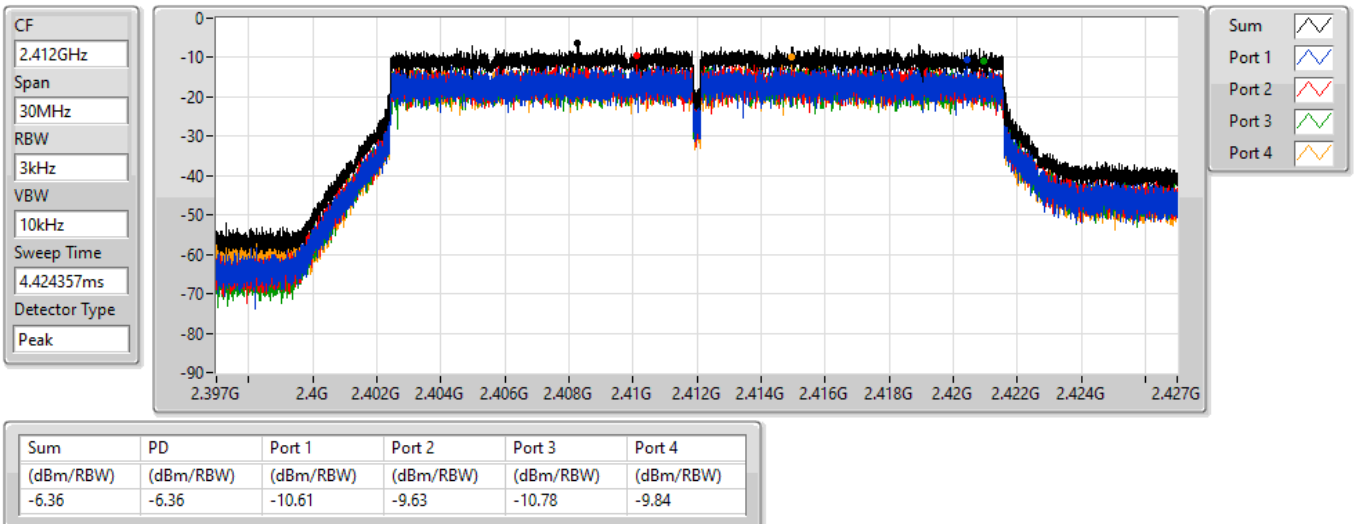


802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz

PSD

18/06/2022

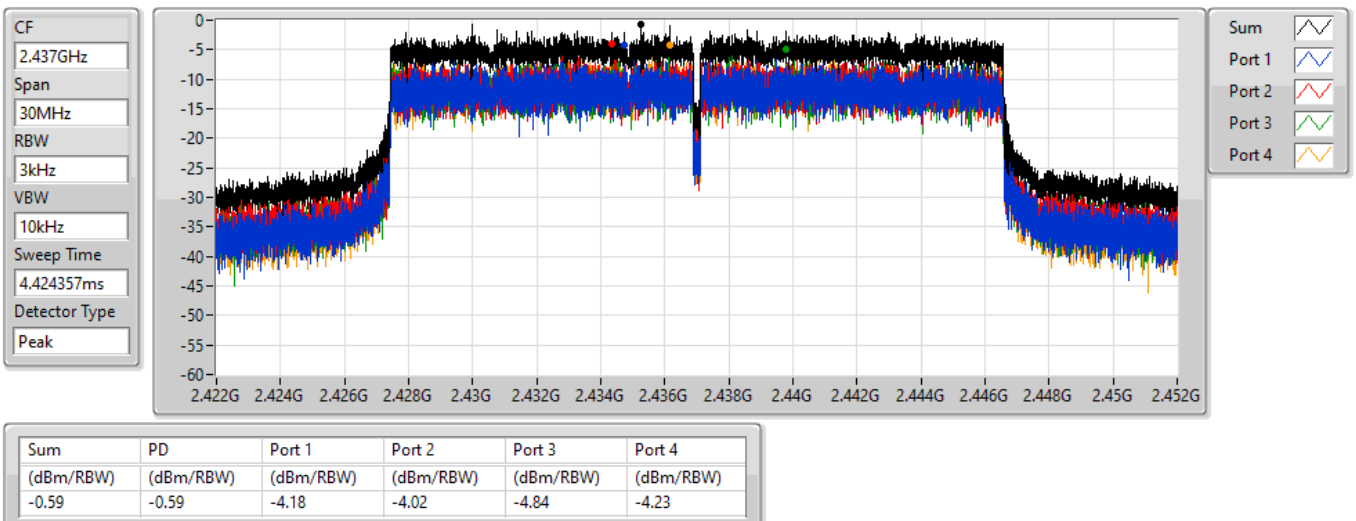


802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz

PSD

18/06/2022



802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz

PSD

18/06/2022





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss4,(MCS0)_4TX	-1.42

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.63	-13.50	-12.91	-13.05	-12.98	-9.03	8.00
2437MHz	Pass	4.63	-5.05	-6.19	-6.59	-4.22	-1.42	8.00
2462MHz	Pass	4.63	-12.96	-12.57	-12.37	-12.97	-8.62	8.00

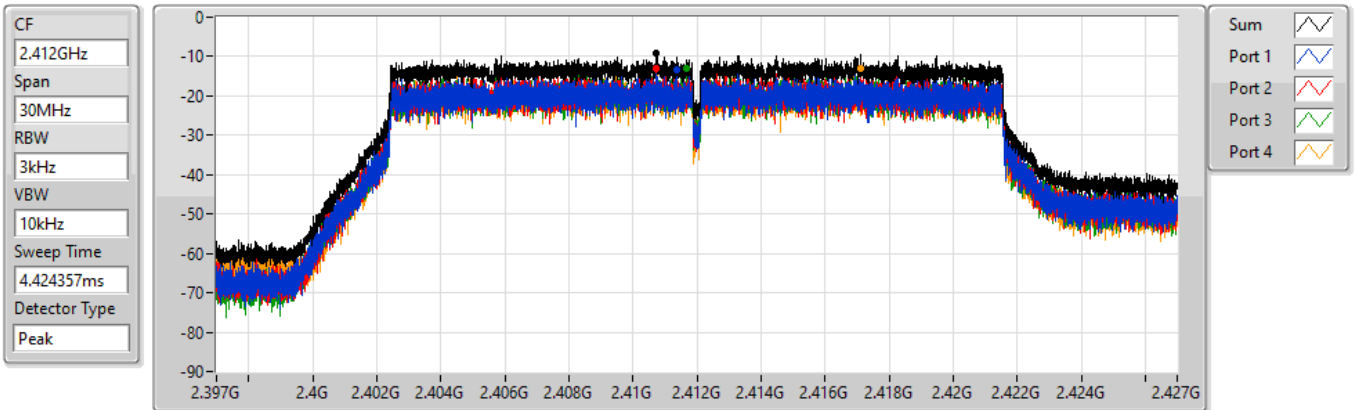
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

2412MHz

25/06/2022



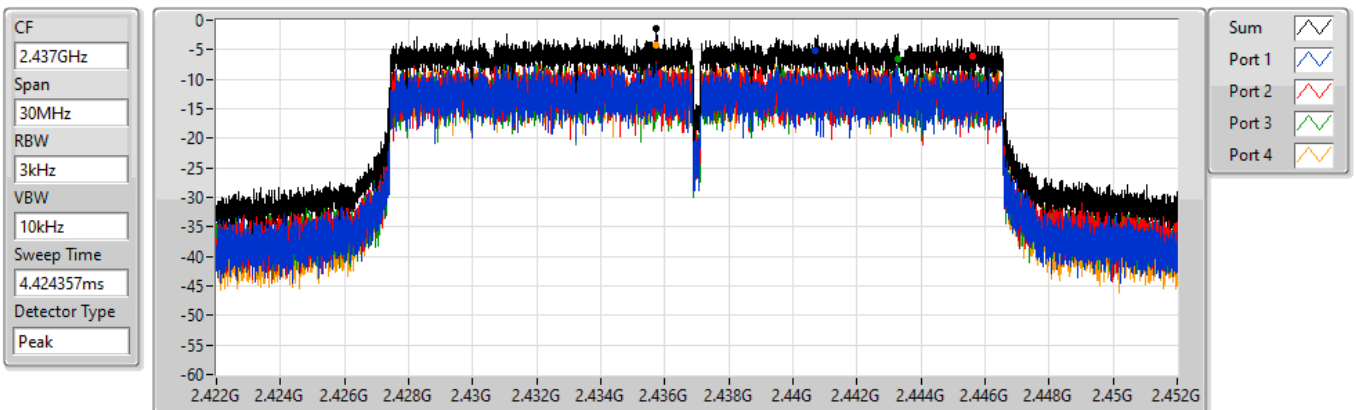
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.03	-9.03	-13.50	-12.91	-13.05	-12.98

802.11ax HEW20_Nss4,(MCS0)_4TX

PSD

2437MHz

25/06/2022



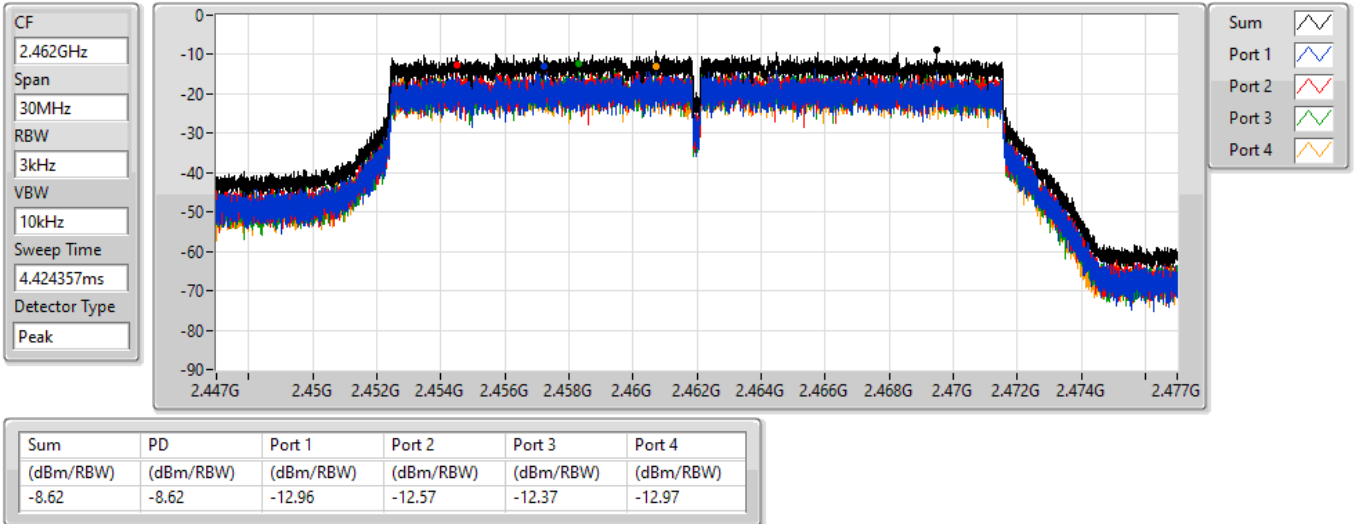
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.42	-1.42	-5.05	-6.19	-6.59	-4.22

802.11ax HEW20_Nss4,(MCS0)_4TX

2462MHz

PSD

25/06/2022





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)_1TX	Pass	2.43741G	16.50	-13.50	2.30874G	-51.78	2.4G	-26.32	2.4G	-24.89	2.50078G	-48.99	6.94856G	-46.28	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.44192G	12.31	-17.69	2.11302G	-52.91	2.39992G	-31.61	2.4G	-28.40	2.5079G	-50.23	17.6839G	-46.91	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.44208G	11.79	-18.21	906.08M	-52.81	2.4G	-31.73	2.4G	-30.63	2.5067G	-49.61	6.94575G	-47.42	1

**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	16.50	-13.50	2.30874G	-51.78	2.4G	-26.32	2.4G	-24.89	2.50078G	-48.99	6.94856G	-46.28	1
2437MHz	Pass	2.43741G	16.50	-13.50	2.30525G	-50.42	2.396G	-40.47	2.4G	-43.11	2.50294G	-45.49	16.55726G	-47.79	1
2462MHz	Pass	2.43741G	16.50	-13.50	2.30991G	-51.70	2.3936G	-49.49	2.4G	-50.74	2.50406G	-47.26	5.82193G	-47.78	1
802.11g_Nss1(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	12.31	-17.69	2.11302G	-52.91	2.39992G	-31.61	2.4G	-28.40	2.5079G	-50.23	17.6839G	-46.91	1
2437MHz	Pass	2.44192G	12.31	-17.69	2.30641G	-52.48	2.39984G	-34.23	2.4G	-34.80	2.50166G	-44.56	24.62914G	-47.29	1
2462MHz	Pass	2.44192G	12.31	-17.69	2.0839G	-53.32	2.39456G	-49.24	2.4G	-50.97	2.52246G	-47.43	23.39012G	-47.30	1
802.11ax HEW20_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44208G	11.79	-18.21	906.08M	-52.81	2.4G	-31.73	2.4G	-30.63	2.5067G	-49.61	6.94575G	-47.42	1
2437MHz	Pass	2.44208G	11.79	-18.21	2.30408G	-52.16	2.39952G	-33.68	2.4G	-33.66	2.50118G	-45.30	24.71623G	-47.11	1
2462MHz	Pass	2.44208G	11.79	-18.21	2.19457G	-52.57	2.39664G	-49.48	2.4G	-51.55	2.51166G	-48.52	23.35922G	-46.85	1

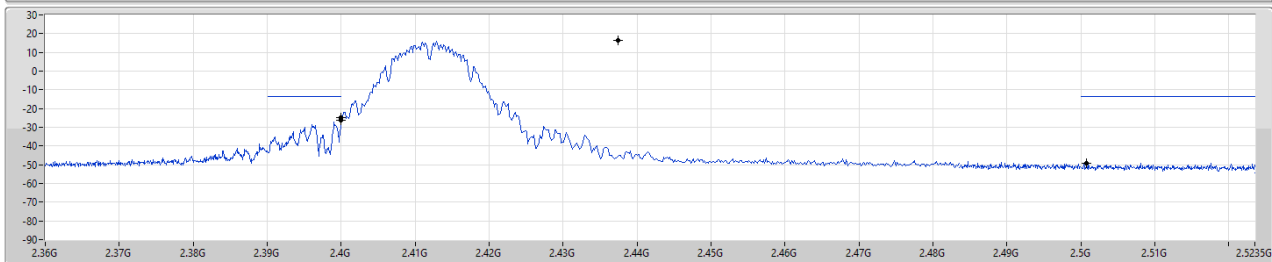
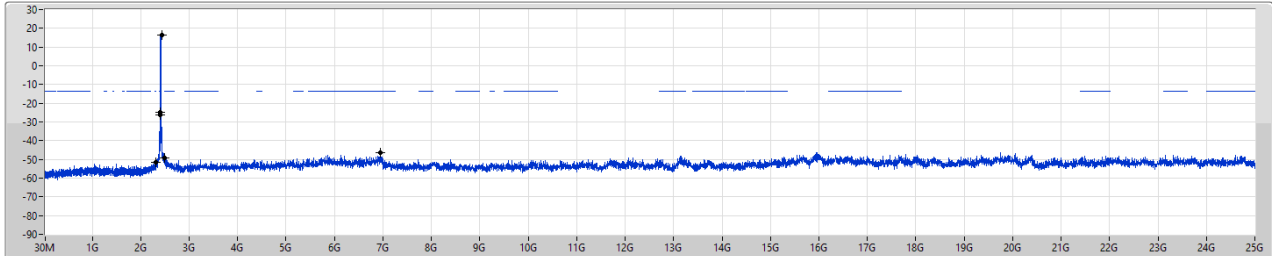
802.11b_Nss1,(1Mbps)_1TX

2412MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.43741G	16.50	-13.50	2.30874G	-51.78	2.4G	-26.32	2.4G	-24.89	2.50078G	-48.99	6.94856G	-46.28	1

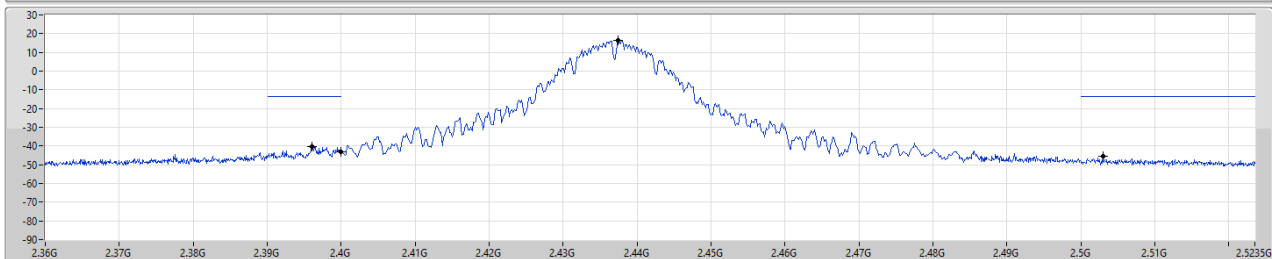
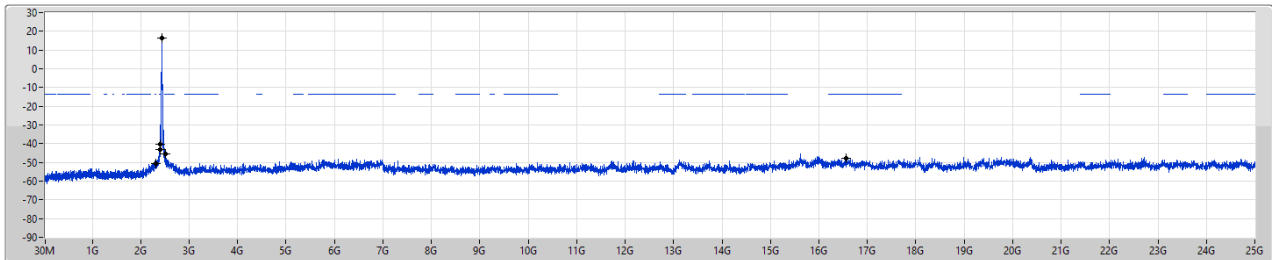
802.11b_Nss1,(1Mbps)_1TX

2437MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.43741G	16.50	-13.50	2.30525G	-50.42	2.396G	-40.47	2.4G	-43.11	2.50294G	-45.49	16.55726G	-47.79	1

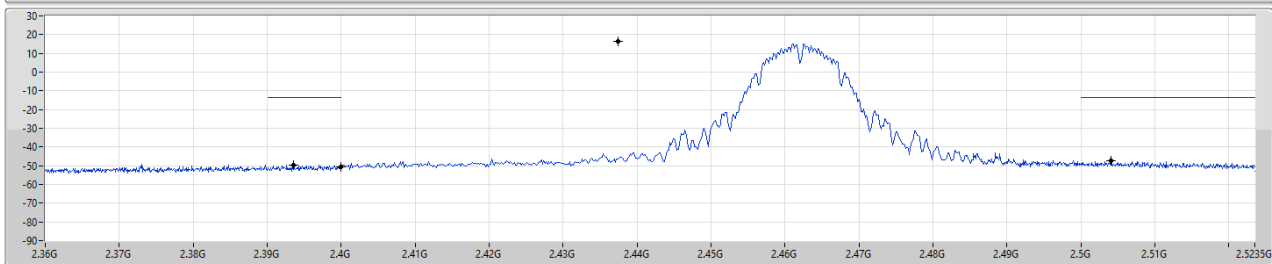
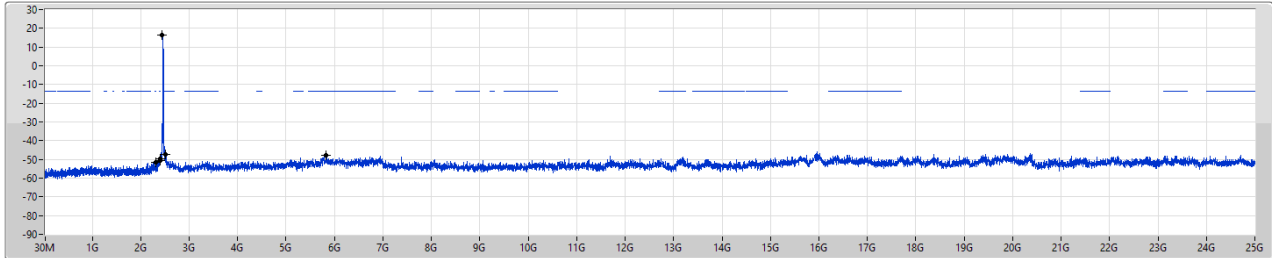
802.11b_Nss1,(1Mbps)_1TX

2462MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.43741G	16.50	-13.50	2.30991G	-51.70	2.3936G	-49.49	2.4G	-50.74	2.50406G	-47.26	5.82193G	-47.78	1

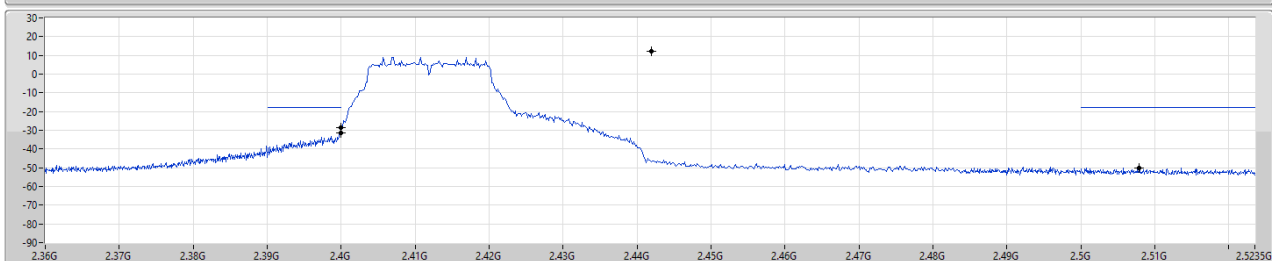
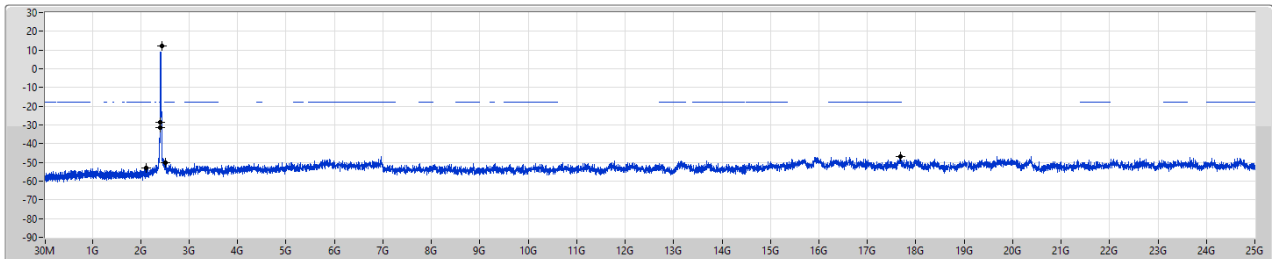
802.11g_Nss1,(6Mbps)_1TX

2412MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	12.31	-17.69	2.11302G	-52.91	2.39992G	-31.61	2.4G	-28.40	2.5079G	-50.23	17.6839G	-46.91	1

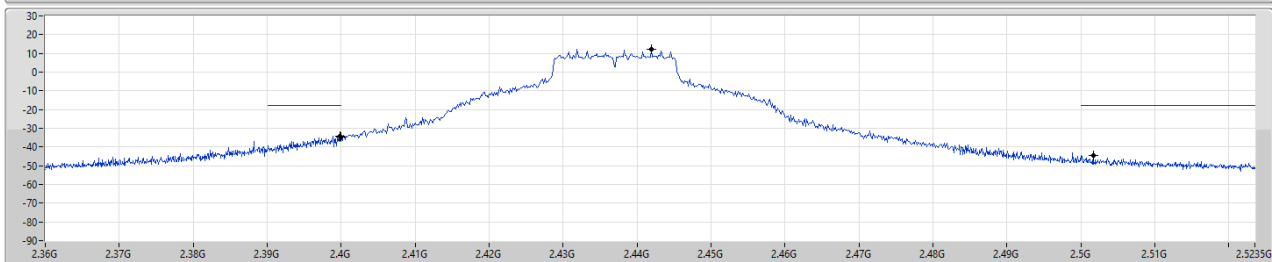
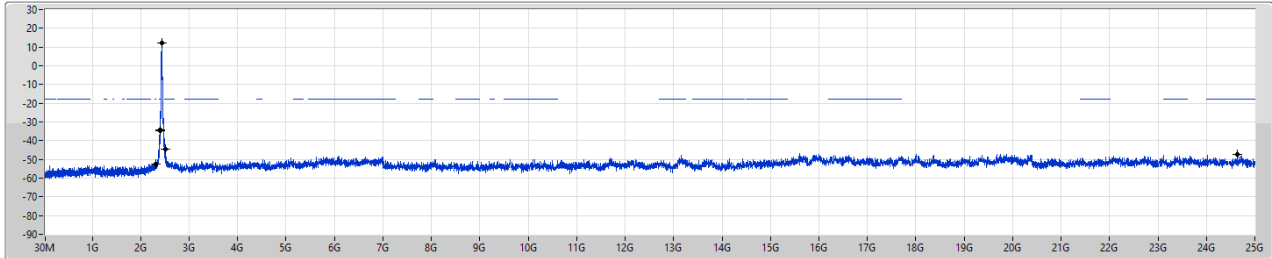
802.11g_Nss1,(6Mbps)_1TX

2437MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	12.31	-17.69	2.30641G	-52.48	2.39984G	-34.23	2.4G	-34.80	2.50166G	-44.56	2.62914G	-47.29	1

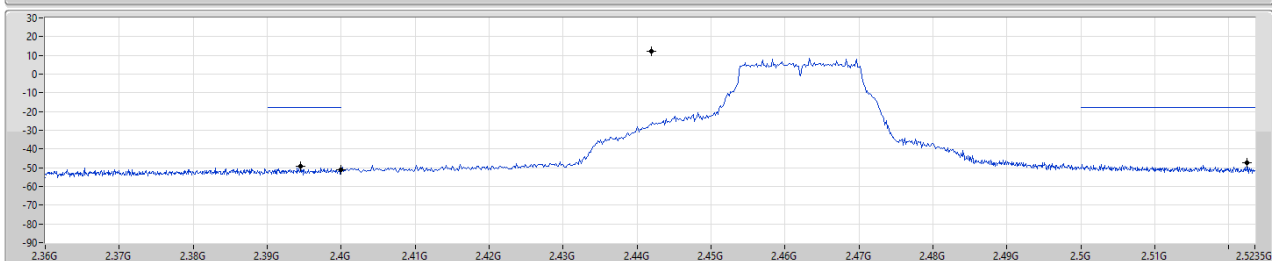
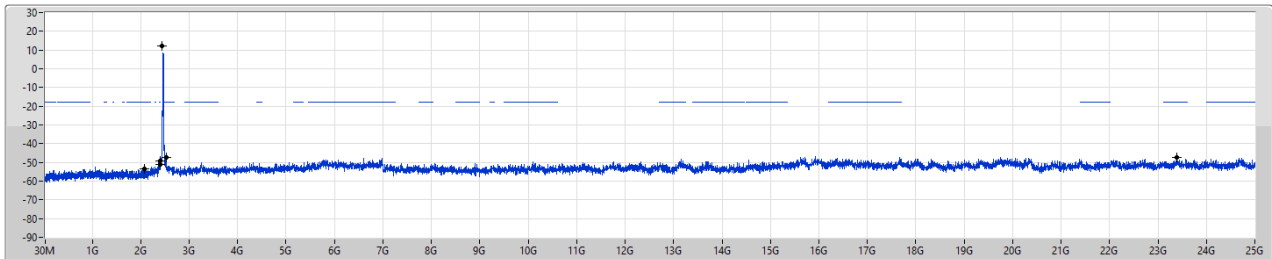
802.11g_Nss1,(6Mbps)_1TX

2462MHz

CSEndB

18/06/2022

Port 1



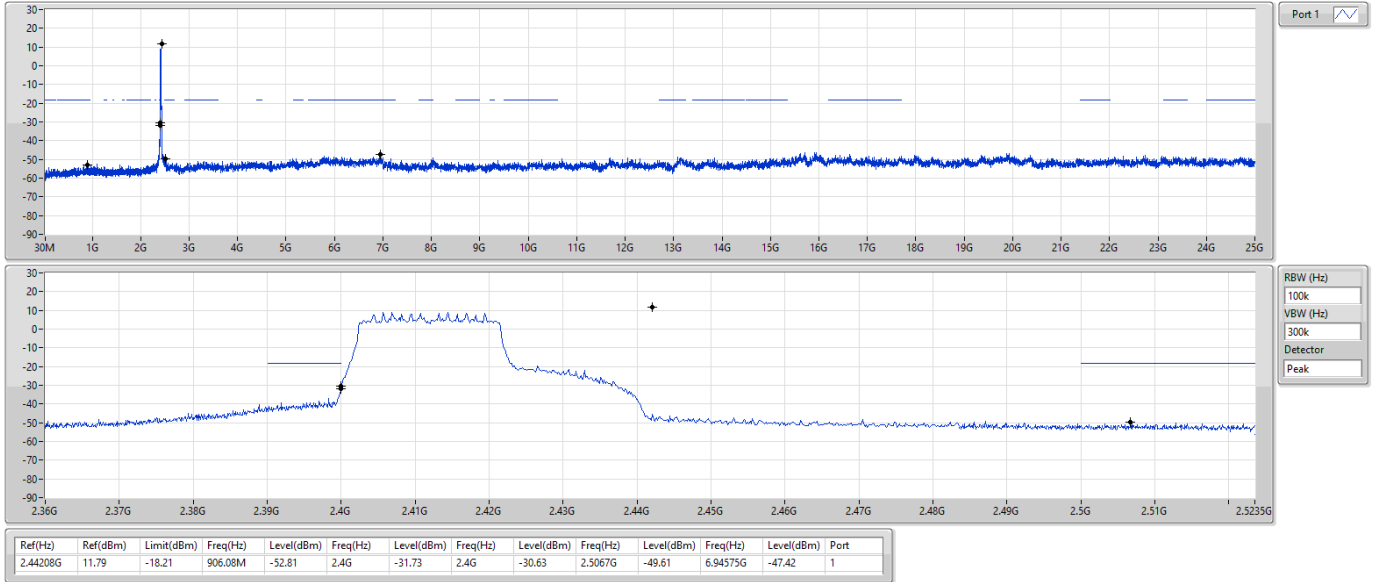
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	12.31	-17.69	2.0839G	-53.32	2.39456G	-49.24	2.4G	-50.97	2.52246G	-47.43	2.639012G	-47.30	1

802.11ax HEW20_Nss1,(MCS0)_1TX

CSEndB

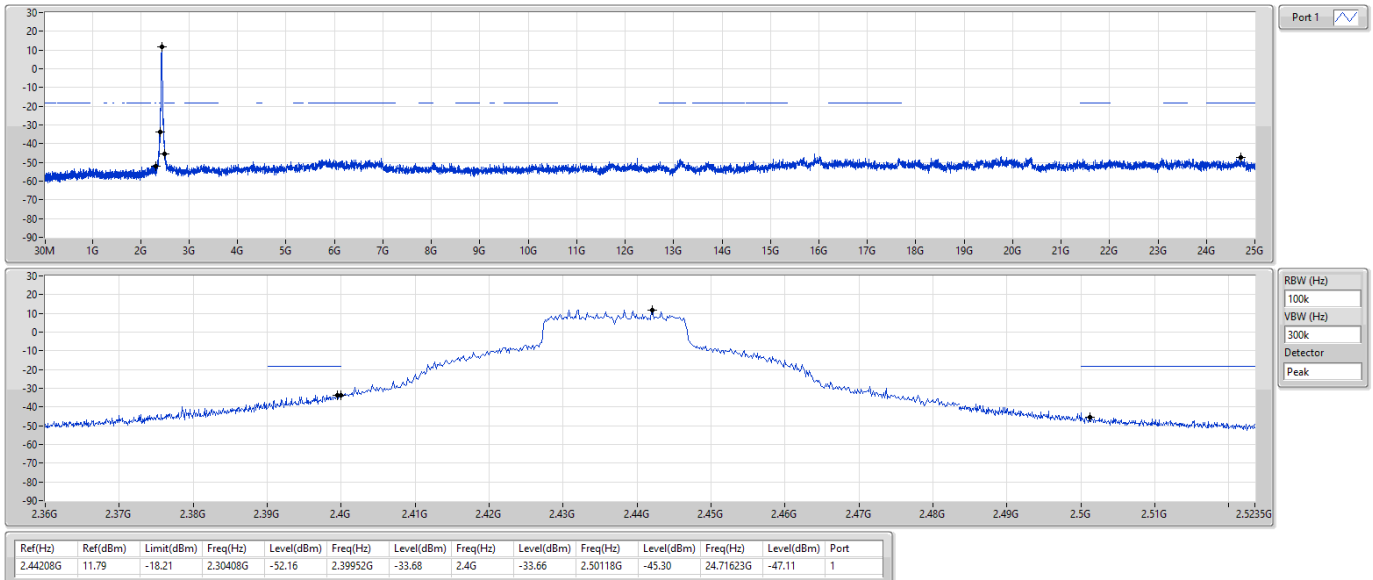
2412MHz



802.11ax HEW20_Nss1,(MCS0)_1TX

CSEndB

2437MHz



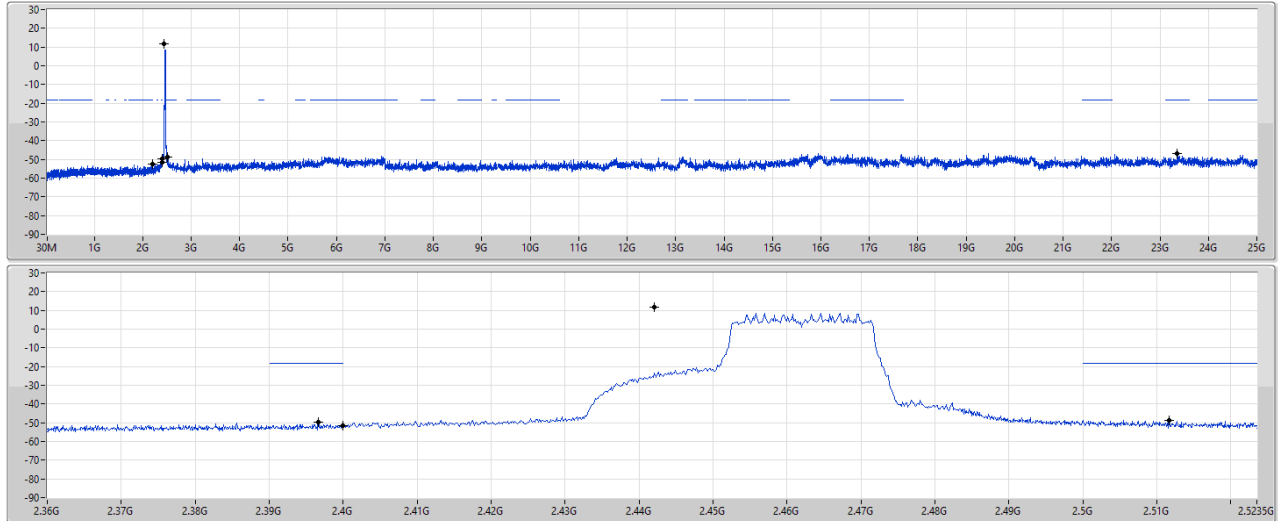
802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz

CSEndB

18/06/2022

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44208G	11.79	-18.21	2.19457G	-52.57	2.39664G	-49.48	2.4G	-51.55	2.51166G	-48.52	2.35922G	-46.85	1



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	2.43741G	14.90	-15.10	1.76003G	-52.93	2.4G	-27.49	2.4G	-27.88	2.51614G	-49.68	21.75776G	-47.98	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44192G	11.97	-18.03	2.30175G	-52.23	2.4G	-35.56	2.4G	-31.46	2.50454G	-50.37	23.45755G	-47.04	1

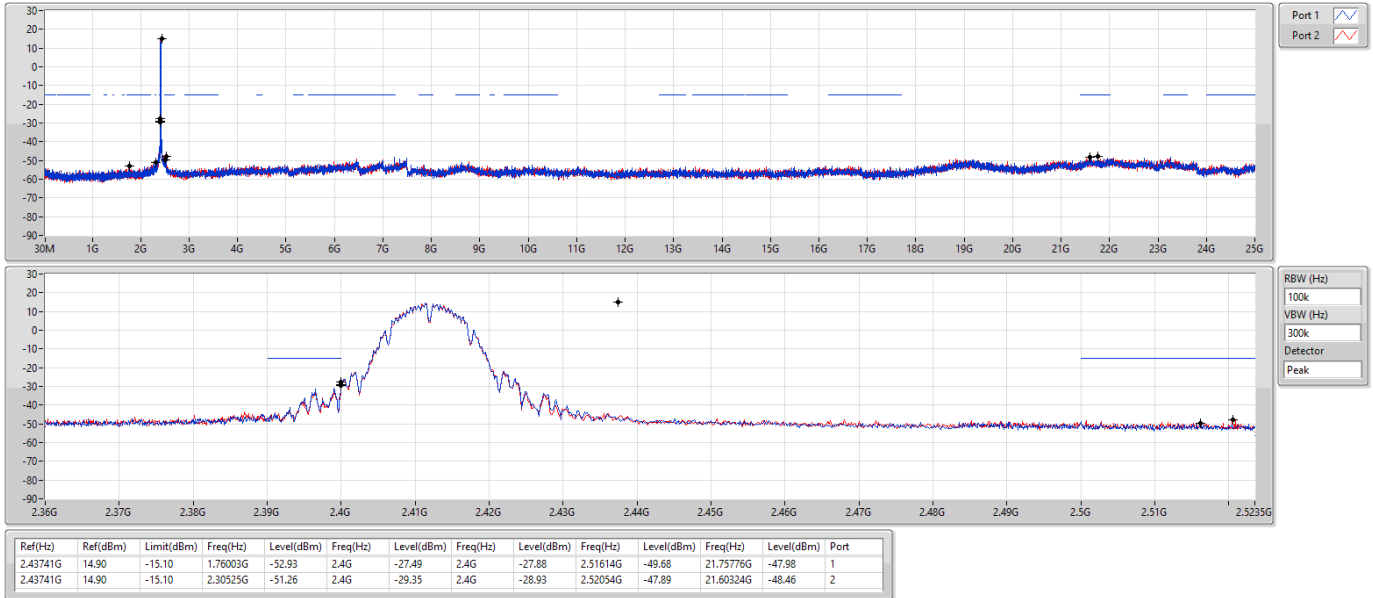
**Result**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	14.90	-15.10	1.76003G	-52.93	2.4G	-27.49	2.4G	-27.88	2.51614G	-49.68	21.75776G	-47.98	1
2412MHz	Pass	2.43741G	14.90	-15.10	2.30525G	-51.26	2.4G	-29.35	2.4G	-28.93	2.52054G	-47.89	21.60324G	-48.46	2
2437MHz	Pass	2.43741G	14.90	-15.10	2.15147G	-53.54	2.39696G	-47.99	2.4G	-49.42	2.50406G	-48.59	13.05093G	-46.52	1
2437MHz	Pass	2.43741G	14.90	-15.10	2.30991G	-52.97	2.39032G	-47.49	2.4G	-49.91	2.51278G	-48.65	21.58638G	-47.07	2
2462MHz	Pass	2.43741G	14.90	-15.10	95.24M	-53.53	2.39592G	-49.30	2.4G	-51.45	2.50414G	-47.34	21.80553G	-47.91	1
2462MHz	Pass	2.43741G	14.90	-15.10	2.30175G	-53.47	2.39448G	-48.78	2.4G	-51.47	2.50022G	-46.10	21.79991G	-47.92	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	11.97	-18.03	2.30175G	-52.23	2.4G	-35.56	2.4G	-31.46	2.50454G	-50.37	23.45755G	-47.04	1
2412MHz	Pass	2.44192G	11.97	-18.03	2.30525G	-51.69	2.39984G	-35.36	2.4G	-32.31	2.5163G	-50.03	17.64176G	-47.13	2
2437MHz	Pass	2.44192G	11.97	-18.03	2.30641G	-52.08	2.3992G	-35.11	2.4G	-36.15	2.50438G	-46.72	24.73028G	-47.02	1
2437MHz	Pass	2.44192G	11.97	-18.03	2.30991G	-49.86	2.39952G	-32.50	2.4G	-33.62	2.50638G	-43.85	17.67266G	-46.62	2
2462MHz	Pass	2.44192G	11.97	-18.03	2.30991G	-52.07	2.3976G	-49.78	2.4G	-51.76	2.5051G	-48.79	16.63874G	-46.93	1
2462MHz	Pass	2.44192G	11.97	-18.03	2.30641G	-52.31	2.39504G	-50.24	2.4G	-51.39	2.51982G	-47.93	16.64717G	-46.44	2

802.11b_Nss1,(1Mbps)_2TX

CSENdB

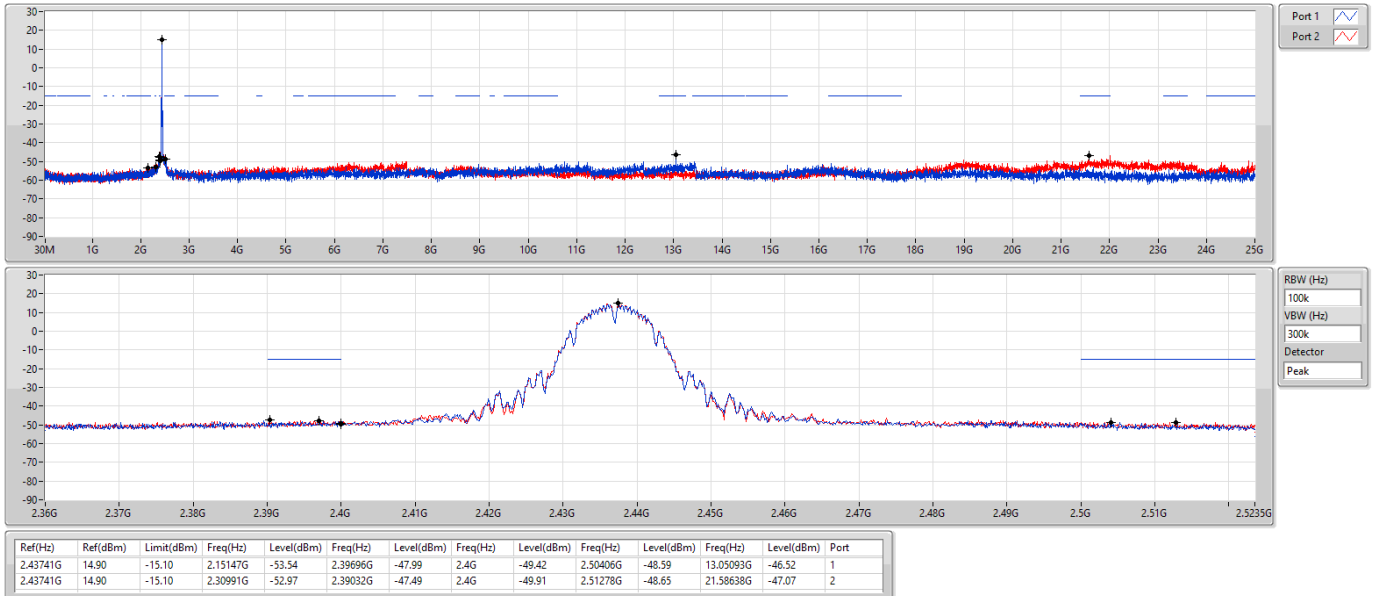
2412MHz



802.11b_Nss1,(1Mbps)_2TX

CSENdB

2437MHz

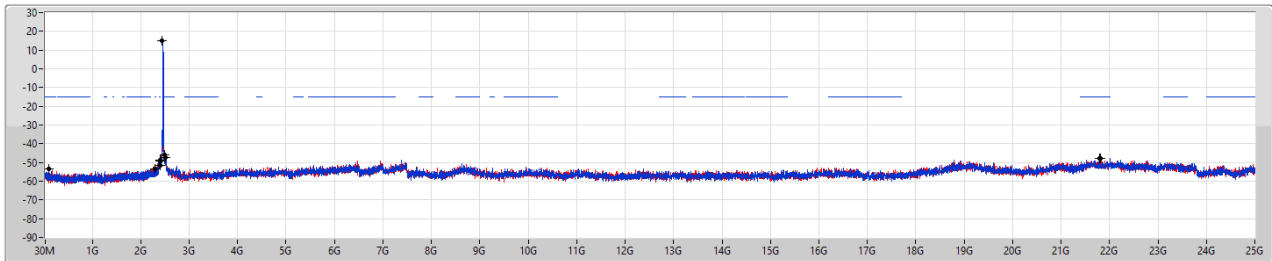


802.11b_Nss1,(1Mbps)_2TX

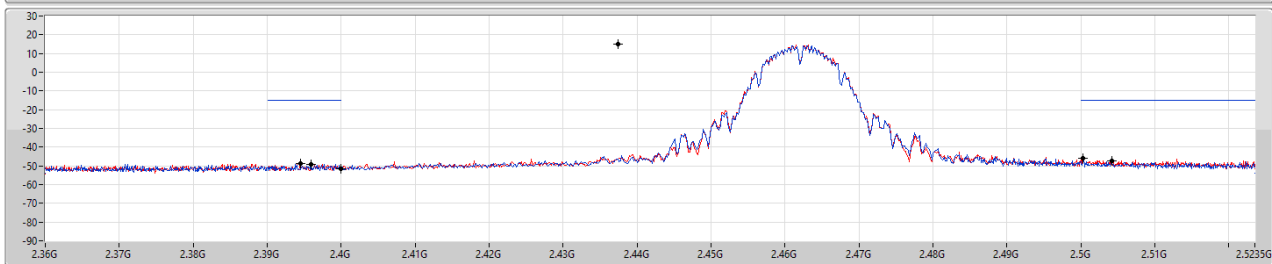
2462MHz

CSEndB

02/09/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

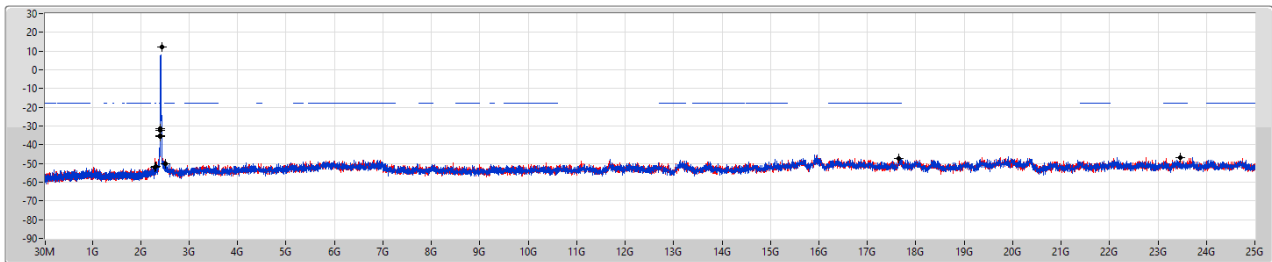
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2.43741G	14.90	-15.10	95.24M	-53.53	2.39992G	-49.30	2.4G	-51.45	2.50414G	-47.34	21.80553G	-47.91	1
2.43741G	14.90	-15.10	2.30175G	-53.47	2.39448G	-48.78	2.4G	-51.47	2.50022G	-46.10	21.79991G	-47.92	2

802.11g_Nss1,(6Mbps)_2TX

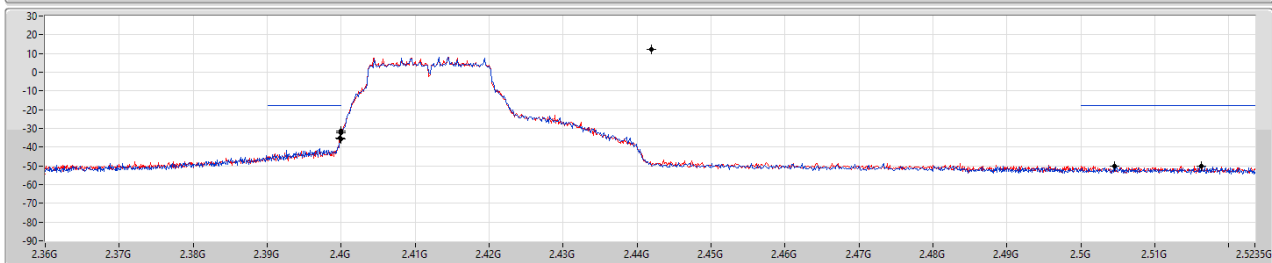
2412MHz

CSEndB

18/06/2022



Port 1
Port 2



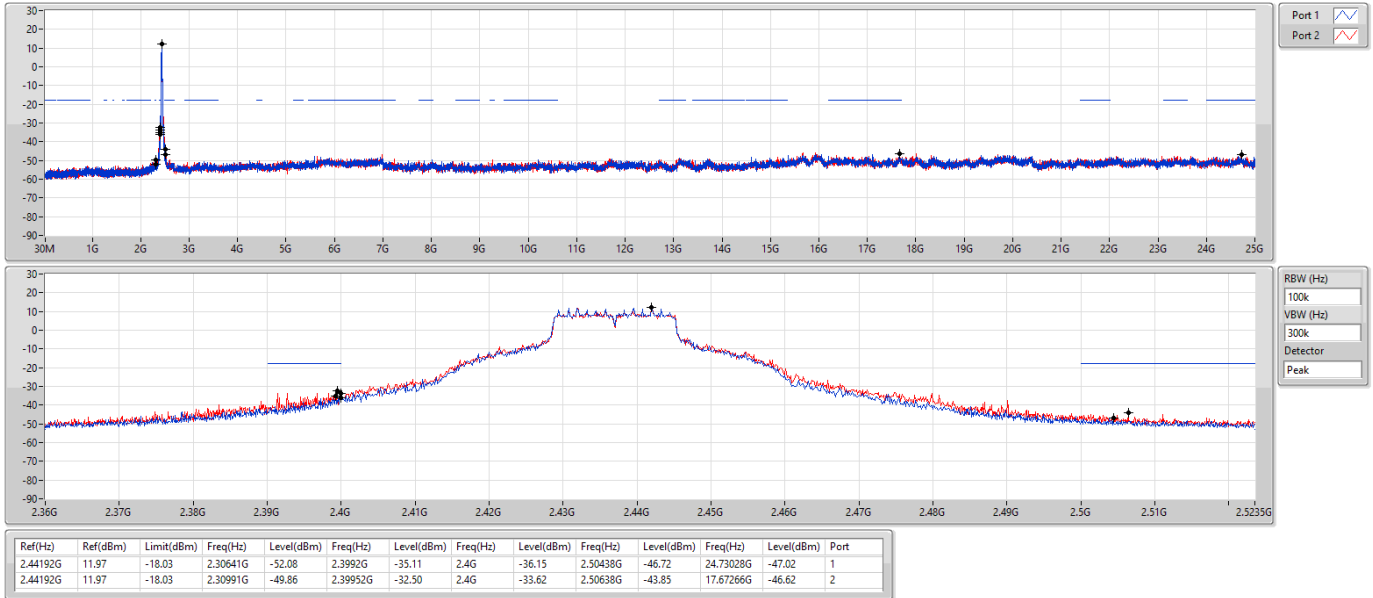
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	11.97	-18.03	2.30175G	-52.23	2.4G	-35.56	2.4G	-31.46	2.50454G	-50.37	23.45755G	-47.04	1
2.44192G	11.97	-18.03	2.30525G	-51.69	2.39984G	-35.36	2.4G	-32.31	2.5163G	-50.03	17.64176G	-47.13	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

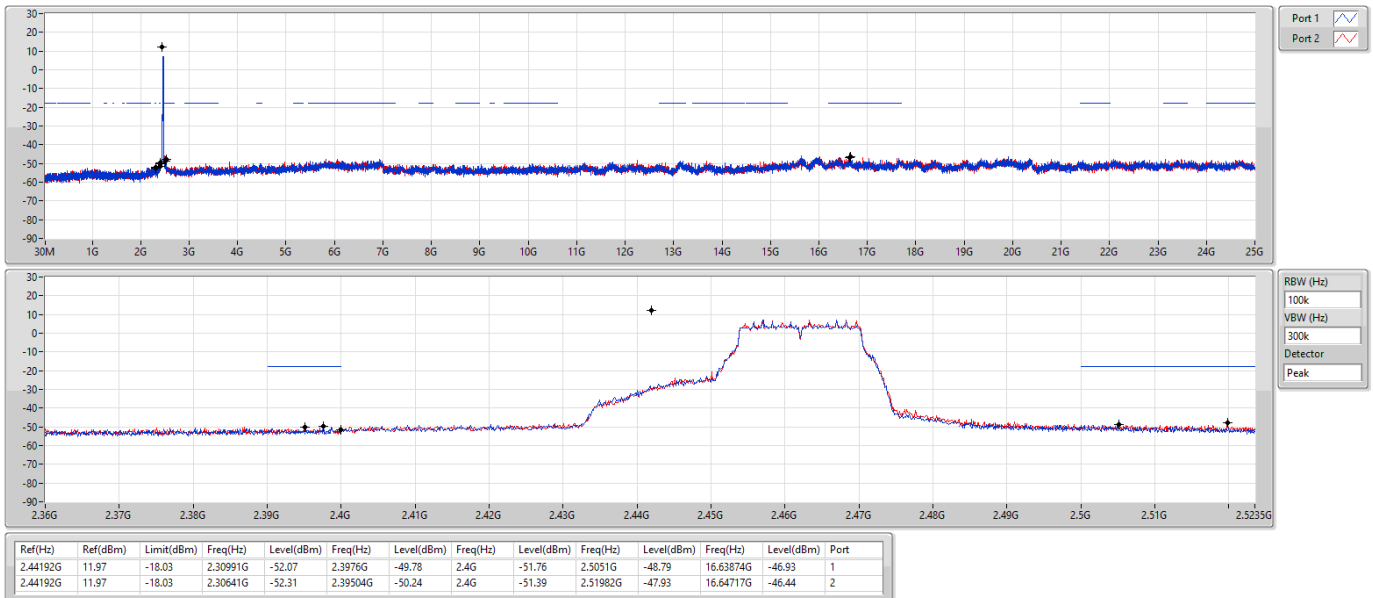
CSEndB



802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSEndB





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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	2.44192G	11.29	-18.71	2.30641G	-51.47	2.4G	-33.68	2.4G	-34.95	2.50038G	-42.91	17.69233G	-46.55	2

Result

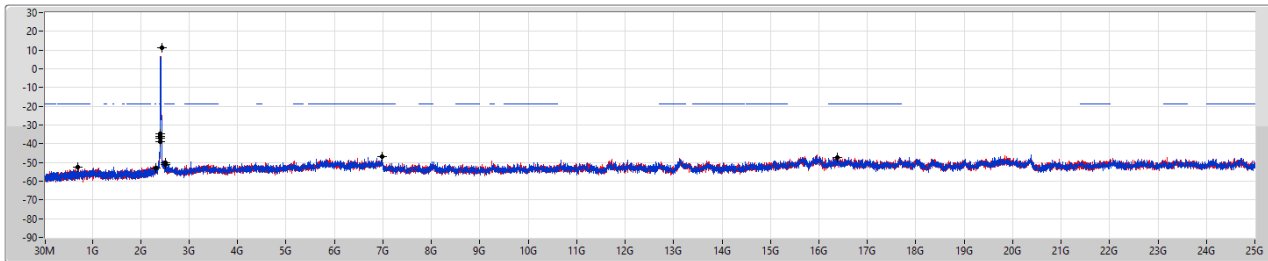
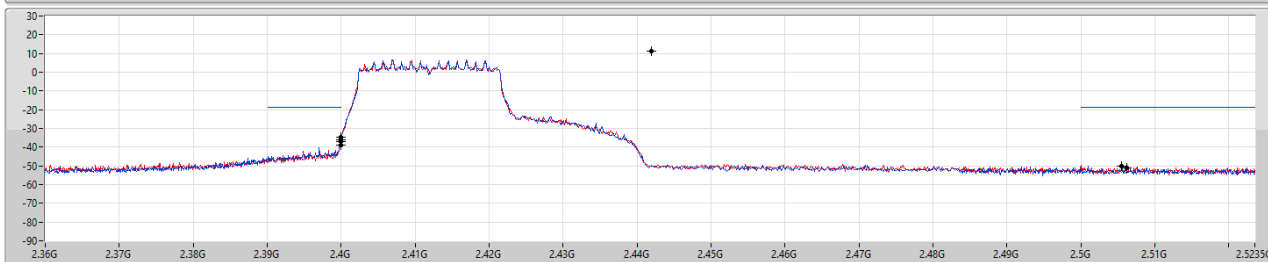
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20_Nss2,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	11.29	-18.71	2.30874G	-53.00	2.4G	-37.19	2.4G	-34.83	2.5055G	-50.23	6.9907G	-47.00	1
2412MHz	Pass	2.44192G	11.29	-18.71	696.38M	-52.28	2.39992G	-38.71	2.4G	-35.86	2.50614G	-50.90	16.38307G	-47.39	2
2437MHz	Pass	2.44192G	11.29	-18.71	2.11885G	-52.37	2.39992G	-35.00	2.4G	-34.36	2.50198G	-46.31	16.38026G	-45.89	1
2437MHz	Pass	2.44192G	11.29	-18.71	2.30641G	-51.47	2.4G	-33.68	2.4G	-34.95	2.50038G	-42.91	17.69233G	-46.55	2
2462MHz	Pass	2.44192G	11.29	-18.71	2.30758G	-52.58	2.39944G	-48.46	2.4G	-49.43	2.50086G	-41.80	16.65279G	-47.20	1
2462MHz	Pass	2.44192G	11.29	-18.71	2.05477G	-52.32	2.39432G	-48.49	2.4G	-49.52	2.50094G	-43.41	16.61065G	-46.74	2

802.11ax HEW20_Nss2,(MCS0)_2TX

CSNdB

2412MHz

18/06/2022

Port 1
Port 2RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

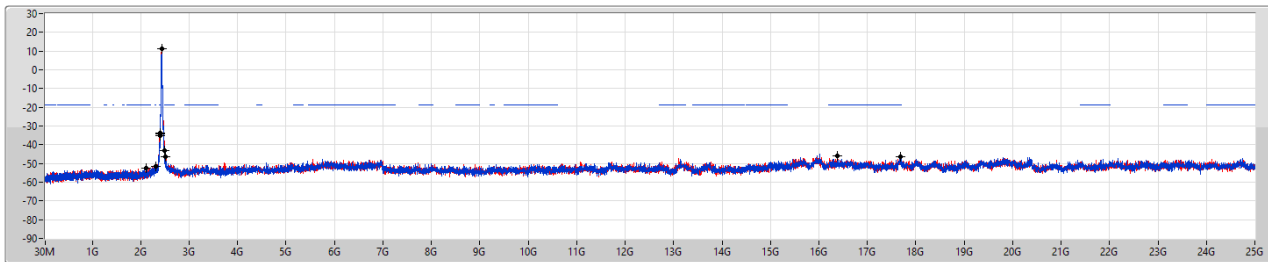
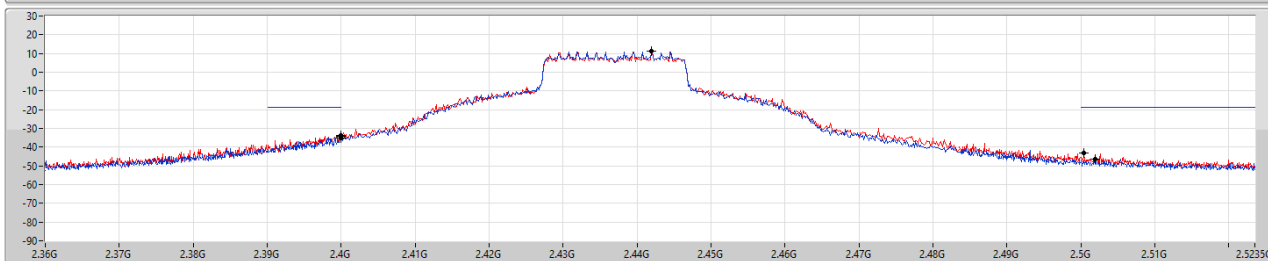
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	11.29	-18.71	2.30874G	-53.00	2.4G	-37.19	2.4G	-34.83	2.5055G	-50.23	6.9907G	-47.00	1
2.44192G	11.29	-18.71	696.38M	-52.28	2.39992G	-38.71	2.4G	-35.86	2.50614G	-50.90	16.38307G	-47.39	2

802.11ax HEW20_Nss2,(MCS0)_2TX

CSNdB

2437MHz

18/06/2022

Port 1
Port 2RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

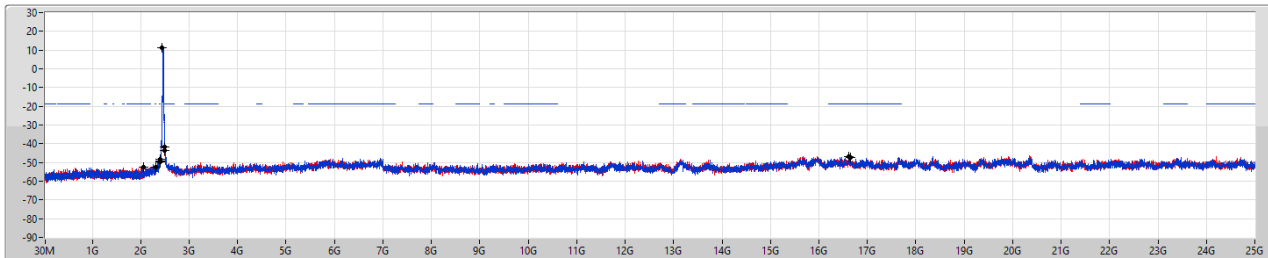
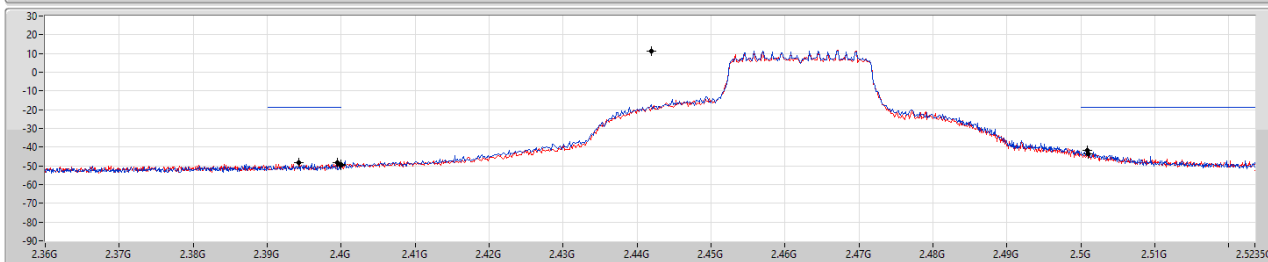
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	11.29	-18.71	2.11885G	-52.37	2.39992G	-35.00	2.4G	-34.36	2.50198G	-46.31	16.38026G	-45.89	1
2.44192G	11.29	-18.71	2.30641G	-51.47	2.4G	-33.68	2.4G	-34.95	2.50038G	-42.91	17.69233G	-46.55	2

802.11ax HEW20_Nss2,(MCS0)_2TX

CSEndB

2462MHz

18/06/2022

Port 1
Port 2RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	11.29	-18.71	2.30758G	-52.58	2.39944G	-48.46	2.4G	-49.43	2.50086G	-41.80	16.65279G	-47.20	1
2.44192G	11.29	-18.71	2.05477G	-52.32	2.39432G	-48.49	2.4G	-49.52	2.50094G	-43.41	16.61065G	-46.74	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)_4TX	Pass	2.43741G	15.40	-14.60	2.30758G	-50.24	2.39856G	-37.48	2.4G	-42.31	2.52254G	-50.12	15.33511G	-47.45	4
802.11g_Nss1,(6Mbps)_4TX	Pass	2.44192G	11.98	-18.02	2.30991G	-51.60	2.39832G	-32.36	2.4G	-33.51	2.50542G	-44.84	23.55869G	-46.51	2
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.46697G	12.17	-17.83	2.30059G	-50.84	2.39928G	-35.46	2.4G	-37.09	2.50366G	-46.04	16.46736G	-47.56	2

Result

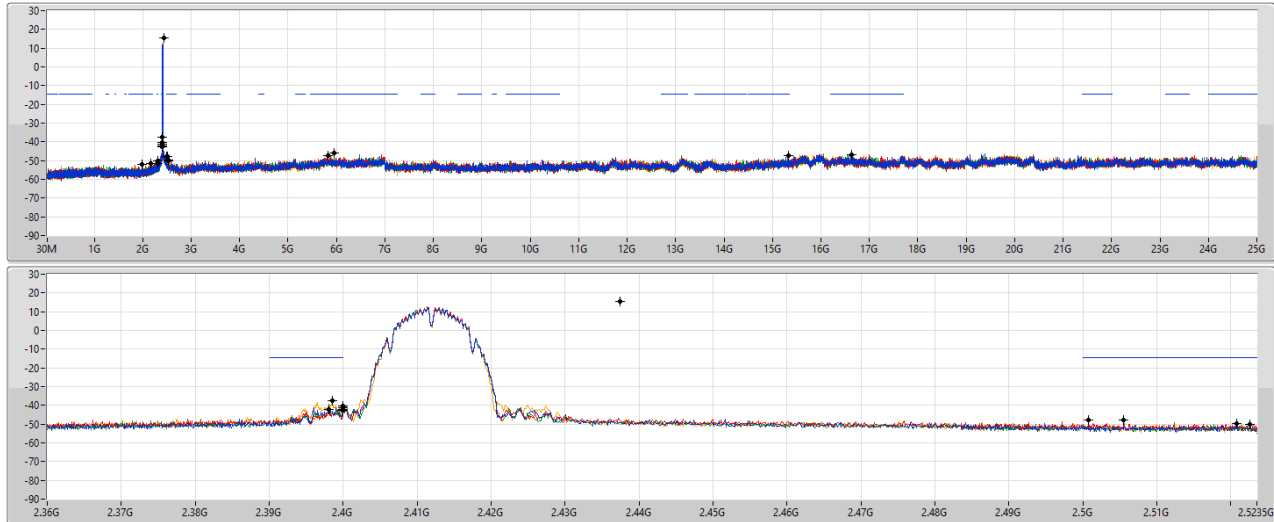
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	15.40	-14.60	2.30991G	-51.78	2.4G	-41.20	2.4G	-40.09	2.52078G	-49.91	5.81912G	-47.27	1
2412MHz	Pass	2.43741G	15.40	-14.60	2.1736G	-51.50	2.39808G	-42.31	2.4G	-42.86	2.50078G	-47.98	16.63312G	-46.76	2
2412MHz	Pass	2.43741G	15.40	-14.60	1.9907G	-51.95	2.4G	-41.06	2.4G	-41.38	2.5055G	-47.82	5.94555G	-46.12	3
2412MHz	Pass	2.43741G	15.40	-14.60	2.30758G	-50.24	2.39856G	-37.48	2.4G	-42.31	2.52254G	-50.12	15.33511G	-47.45	4
2437MHz	Pass	2.43741G	15.40	-14.60	2.30292G	-52.52	2.39712G	-47.82	2.4G	-49.50	2.50014G	-47.99	6.87832G	-47.55	1
2437MHz	Pass	2.43741G	15.40	-14.60	2.30874G	-51.91	2.39672G	-45.86	2.4G	-48.01	2.50022G	-47.69	17.66704G	-46.80	2
2437MHz	Pass	2.43741G	15.40	-14.60	2.30175G	-51.81	2.39696G	-46.81	2.4G	-49.27	2.51566G	-48.45	6.69851G	-47.47	3
2437MHz	Pass	2.43741G	15.40	-14.60	2.30525G	-51.18	2.39968G	-46.10	2.4G	-47.27	2.5163G	-48.05	24.70781G	-46.48	4
2462MHz	Pass	2.43741G	15.40	-14.60	2.04196G	-52.65	2.39912G	-48.68	2.4G	-50.67	2.5035G	-47.36	24.68814G	-47.35	1
2462MHz	Pass	2.43741G	15.40	-14.60	2.30758G	-51.58	2.39928G	-49.24	2.4G	-50.27	2.50366G	-46.74	16.35498G	-46.39	2
2462MHz	Pass	2.43741G	15.40	-14.60	1.8276G	-52.00	2.39576G	-49.90	2.4G	-50.07	2.50334G	-47.81	16.38026G	-47.19	3
2462MHz	Pass	2.43741G	15.40	-14.60	1.64469G	-52.74	2.3964G	-48.17	2.4G	-50.10	2.51046G	-47.24	24.16275G	-47.24	4
802.11g_Nss1(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	11.98	-18.02	422.61M	-52.95	2.4G	-41.44	2.4G	-38.83	2.52006G	-51.05	17.66985G	-47.35	1
2412MHz	Pass	2.44192G	11.98	-18.02	2.17943G	-52.91	2.39992G	-42.31	2.4G	-36.44	2.51134G	-50.73	24.66566G	-46.93	2
2412MHz	Pass	2.44192G	11.98	-18.02	2.15729G	-52.40	2.4G	-42.39	2.4G	-35.68	2.50166G	-50.36	24.15713G	-46.64	3
2412MHz	Pass	2.44192G	11.98	-18.02	2.1969G	-52.96	2.39768G	-38.55	2.4G	-39.52	2.50982G	-50.97	16.38588G	-46.81	4
2437MHz	Pass	2.44192G	11.98	-18.02	2.14331G	-52.43	2.39944G	-35.46	2.4G	-36.71	2.50006G	-46.71	23.33393G	-46.84	1
2437MHz	Pass	2.44192G	11.98	-18.02	2.30991G	-51.60	2.39832G	-32.36	2.4G	-33.51	2.50542G	-44.84	23.55869G	-46.51	2
2437MHz	Pass	2.44192G	11.98	-18.02	2.17244G	-51.96	2.39984G	-34.62	2.4G	-36.33	2.50054G	-45.85	17.65018G	-46.34	3
2437MHz	Pass	2.44192G	11.98	-18.02	2.30175G	-51.09	2.39864G	-36.08	2.4G	-37.98	2.50502G	-46.57	24.73028G	-46.77	4
2462MHz	Pass	2.44192G	11.98	-18.02	1.90915G	-52.77	2.39576G	-51.55	2.4G	-52.29	2.5063G	-50.48	17.67547G	-46.92	1
2462MHz	Pass	2.44192G	11.98	-18.02	2.30292G	-52.33	2.39192G	-51.70	2.4G	-53.64	2.50078G	-49.96	24.68252G	-47.03	2
2462MHz	Pass	2.44192G	11.98	-18.02	897.93M	-52.56	2.39592G	-51.75	2.4G	-54.10	2.52254G	-49.96	16.58817G	-47.14	3
2462MHz	Pass	2.44192G	11.98	-18.02	1.28005G	-52.76	2.3924G	-51.69	2.4G	-53.37	2.51462G	-48.71	16.31002G	-47.55	4
802.11ax HEW20_Nss1(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46697G	12.17	-17.83	1.85905G	-52.75	2.4G	-38.55	2.4G	-35.56	2.50918G	-50.31	16.38588G	-46.37	1
2412MHz	Pass	2.46697G	12.17	-17.83	2.30991G	-52.29	2.4G	-38.89	2.4G	-36.56	2.51078G	-50.89	16.22012G	-46.40	2
2412MHz	Pass	2.46697G	12.17	-17.83	641.63M	-52.03	2.39992G	-37.26	2.4G	-36.39	2.52142G	-50.98	16.38026G	-46.64	3
2412MHz	Pass	2.46697G	12.17	-17.83	2.16661G	-52.58	2.39704G	-36.66	2.4G	-37.09	2.50646G	-51.23	16.41398G	-47.08	4
2437MHz	Pass	2.46697G	12.17	-17.83	2.1736G	-52.66	2.39968G	-37.48	2.4G	-39.71	2.50126G	-48.53	16.38588G	-46.75	1
2437MHz	Pass	2.46697G	12.17	-17.83	2.30059G	-50.84	2.39928G	-35.46	2.4G	-37.09	2.50366G	-46.04	16.46736G	-47.56	2
2437MHz	Pass	2.46697G	12.17	-17.83	2.30641G	-51.27	2.39904G	-35.78	2.4G	-38.97	2.50006G	-47.63	23.38731G	-47.32	3
2437MHz	Pass	2.46697G	12.17	-17.83	544.93M	-51.96	2.39784G	-37.71	2.4G	-39.81	2.50142G	-48.08	23.40979G	-46.60	4
2462MHz	Pass	2.46697G	12.17	-17.83	2.30641G	-51.94	2.39728G	-48.61	2.4G	-48.49	2.50086G	-38.54	16.59098G	-46.22	1
2462MHz	Pass	2.46697G	12.17	-17.83	937.54M	-52.35	2.39312G	-48.53	2.4G	-50.14	2.50022G	-39.12	16.20326G	-46.96	2
2462MHz	Pass	2.46697G	12.17	-17.83	2.30525G	-52.73	2.39648G	-49.16	2.4G	-50.74	2.50038G	-41.59	24.705G	-47.33	3
2462MHz	Pass	2.46697G	12.17	-17.83	1.7111G	-52.09	2.39968G	-46.23	2.4G	-49.80	2.50078G	-40.03	16.38869G	-47.58	4

802.11b_Nss1,(1Mbps)_4TX

2412MHz

CSENdB

18/06/2022



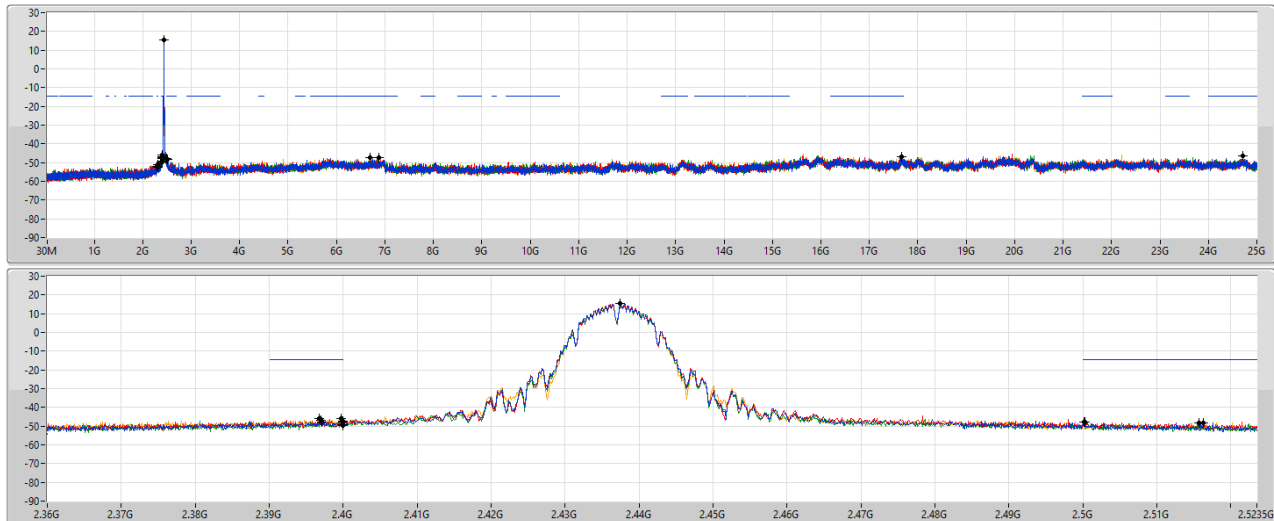
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2.43741G	15.40	-14.60	2.30991G	-51.78	2.4G	-41.20	2.4G	-40.09	2.52078G	-49.91	5.81912G	-47.27	1
2.43741G	15.40	-14.60	2.1736G	-51.50	2.39808G	-42.31	2.4G	-42.86	2.50078G	-47.98	16.63312G	-46.76	2
2.43741G	15.40	-14.60	1.9907G	-51.95	2.4G	-41.06	2.4G	-41.38	2.5055G	-47.82	5.94555G	-46.12	3
2.43741G	15.40	-14.60	2.30758G	-50.24	2.39856G	-37.48	2.4G	-42.31	2.52254G	-50.12	15.33511G	-47.45	4

802.11b_Nss1,(1Mbps)_4TX

2437MHz

CSENdB

18/06/2022

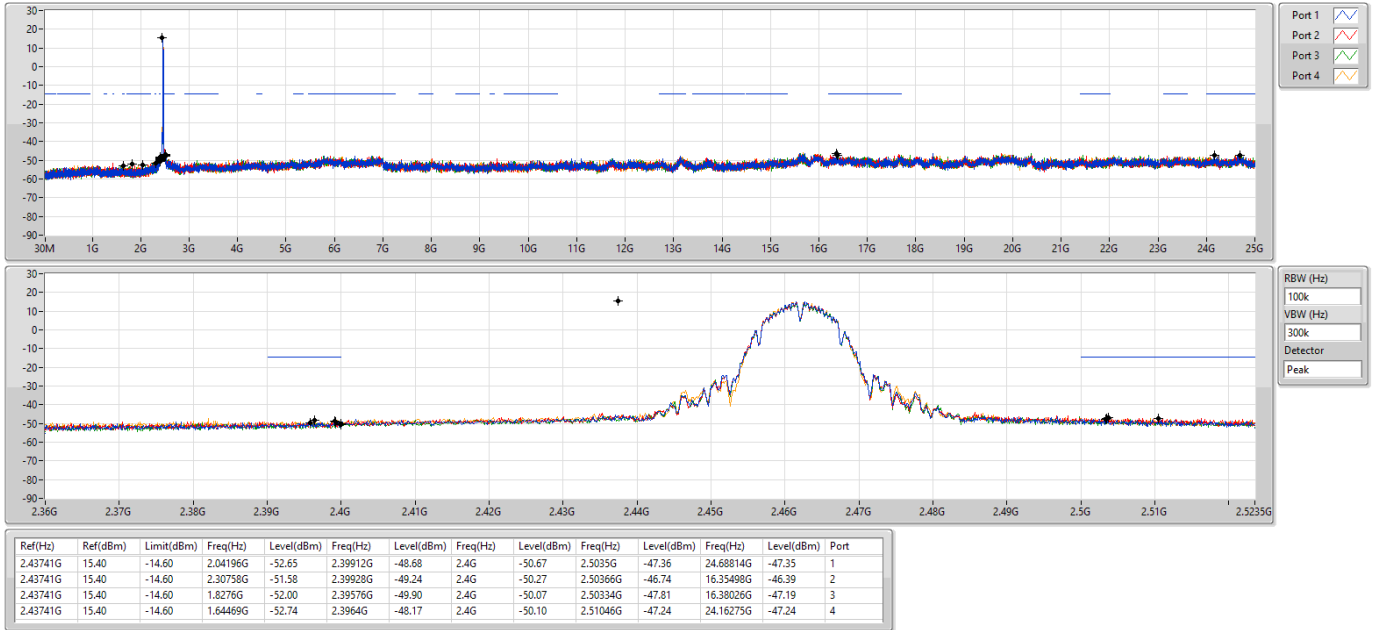


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43741G	15.40	-14.60	2.30292G	-52.52	2.39712G	-47.82	2.4G	-49.50	2.50014G	-47.99	6.87832G	-47.55	1
2.43741G	15.40	-14.60	2.30874G	-51.91	2.39672G	-45.86	2.4G	-48.01	2.50022G	-47.69	17.66704G	-46.80	2
2.43741G	15.40	-14.60	2.30175G	-51.81	2.39696G	-46.81	2.4G	-49.27	2.51566G	-48.45	6.69851G	-47.47	3
2.43741G	15.40	-14.60	2.30525G	-51.18	2.39968G	-46.10	2.4G	-47.27	2.5163G	-48.05	24.70781G	-46.48	4

802.11b_Nss1,(1Mbps)_4TX

CSENdB

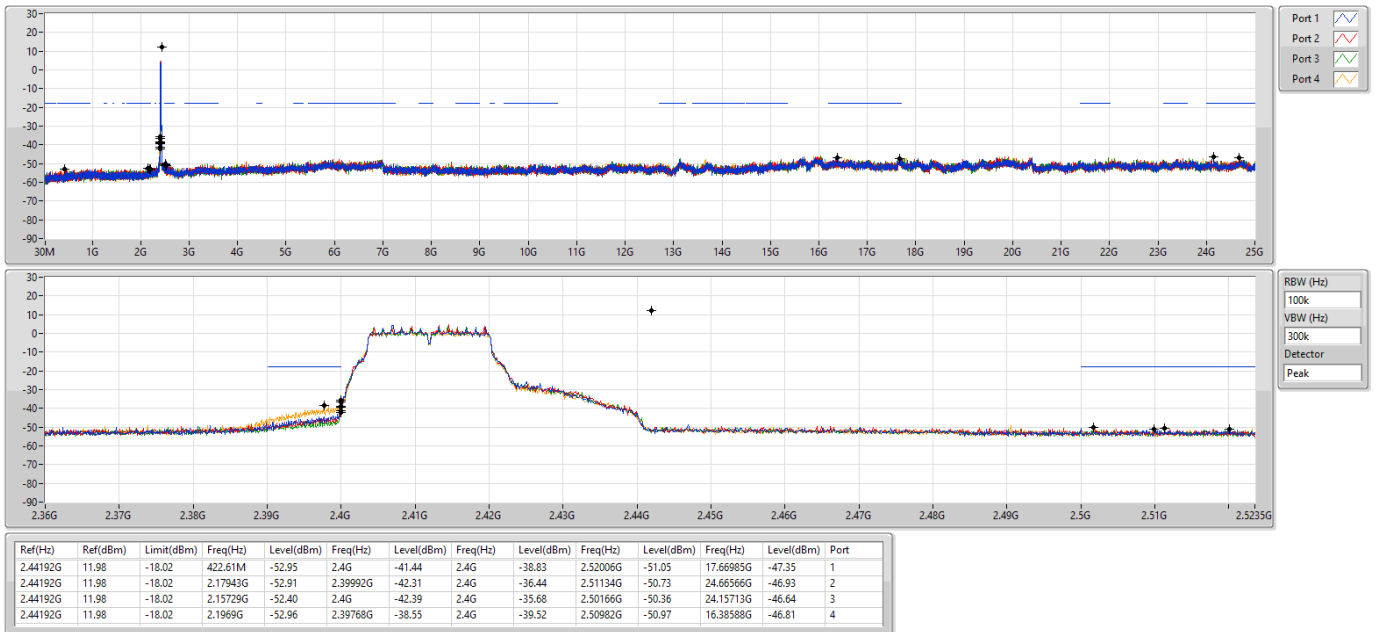
2462MHz



802.11g_Nss1,(6Mbps)_4TX

CSENdB

2412MHz

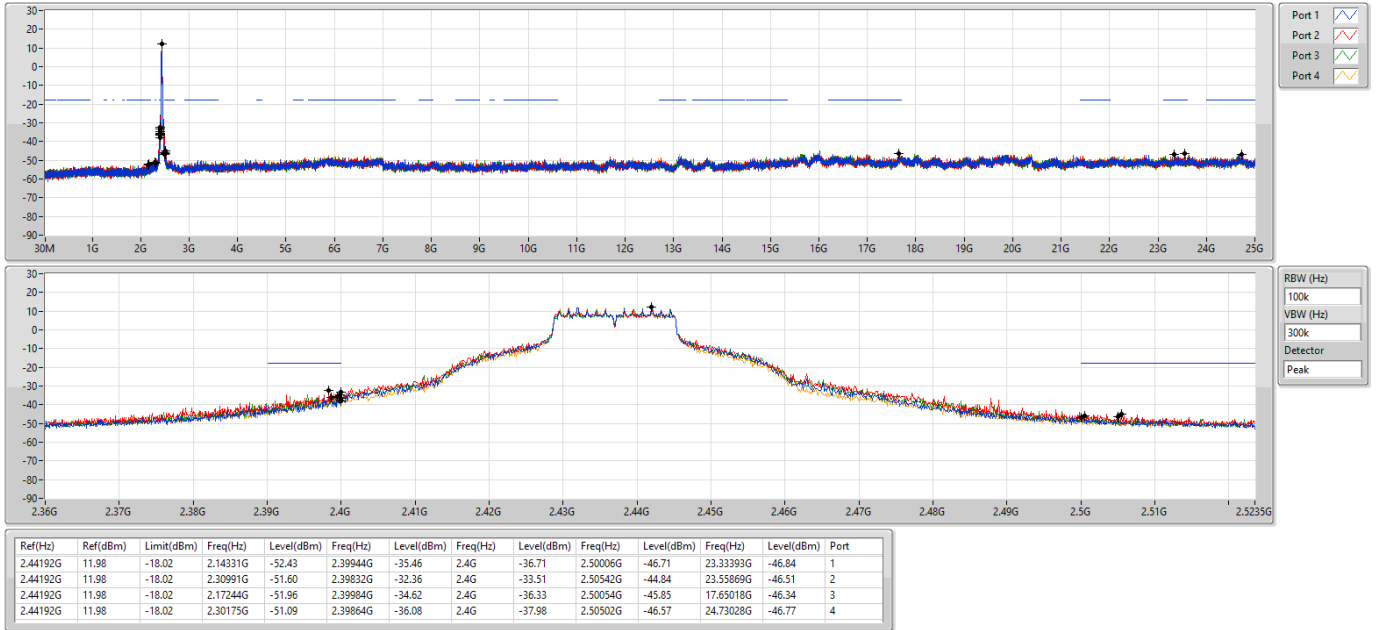


802.11g_Nss1,(6Mbps)_4TX

CSENdB

2437MHz

18/06/2022

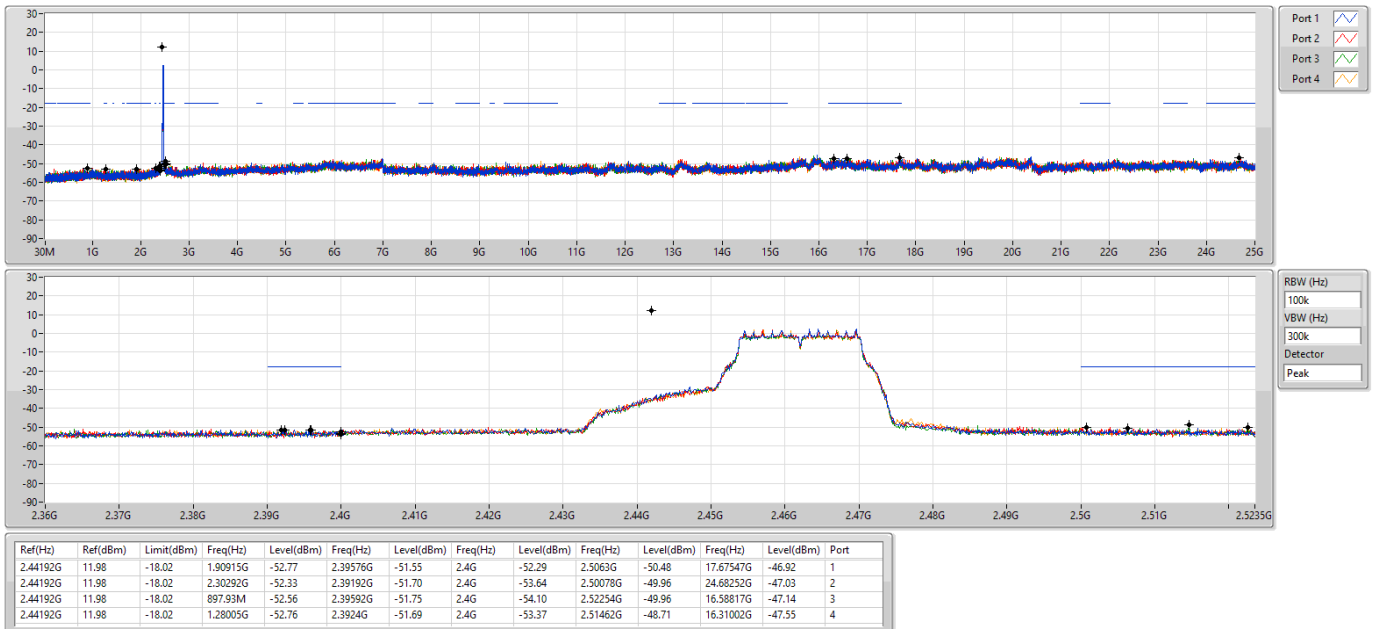


802.11g_Nss1,(6Mbps)_4TX

CSENdB

2462MHz

18/06/2022



802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

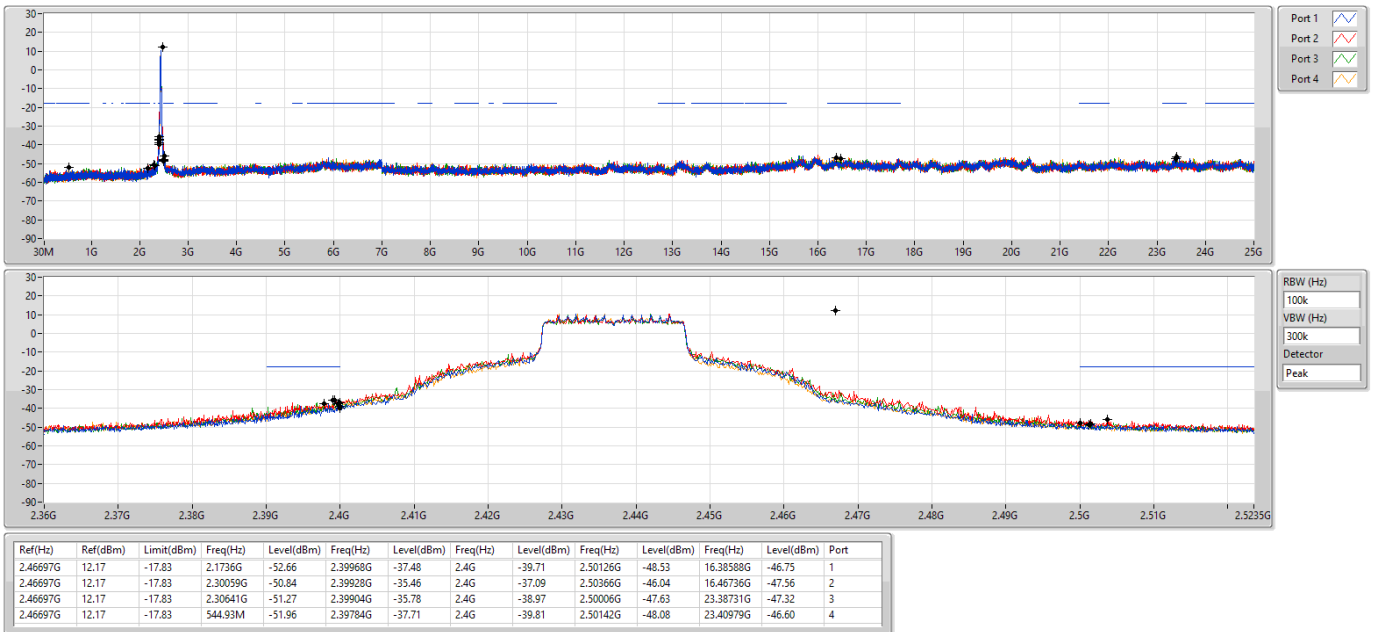
2412MHz



802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

2437MHz

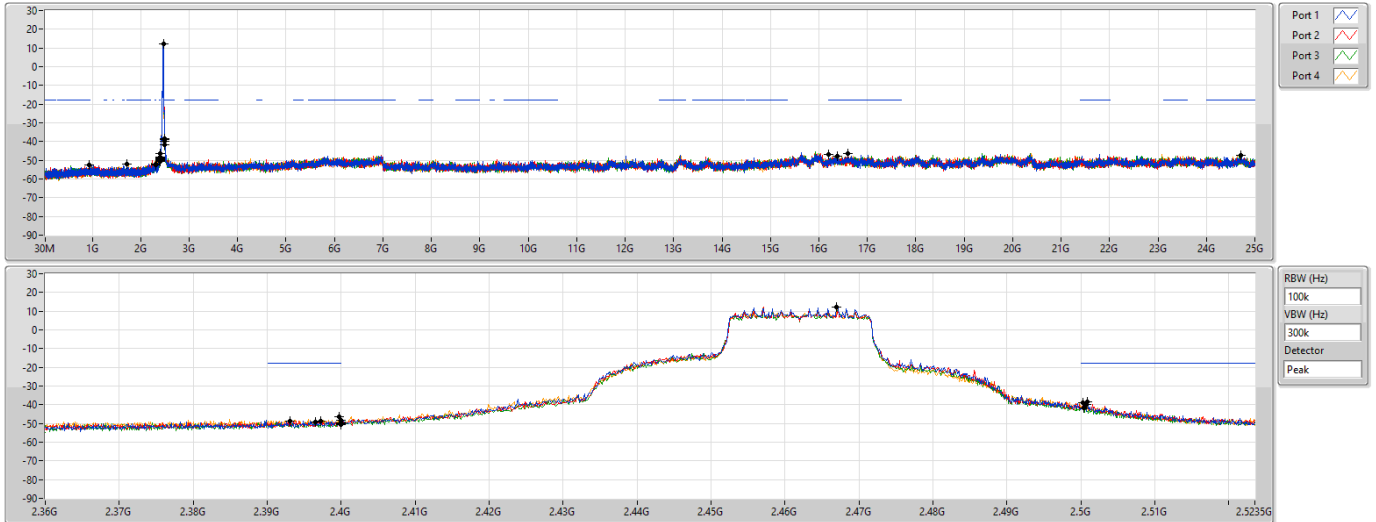


802.11ax HEW20_Nss1,(MCS0)_4TX

CSENdB

2462MHz

18/06/2022



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
2.46697G	12.17	-17.83	2.30641G	-51.94	2.39728G	-48.61	2.4G	-48.49	2.50086G	-38.54	16.59098G	-46.22	1
2.46697G	12.17	-17.83	937.54M	-52.35	2.39312G	-48.53	2.4G	-50.14	2.50022G	-39.12	16.20326G	-46.96	2
2.46697G	12.17	-17.83	2.30525G	-52.73	2.39648G	-49.16	2.4G	-50.74	2.50038G	-41.59	24.705G	-47.33	3
2.46697G	12.17	-17.83	1.7111G	-52.09	2.39968G	-46.23	2.4G	-49.80	2.50078G	-40.03	16.38869G	-47.58	4



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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss4,(MCS0)_4TX	Pass	2.44192G	10.14	-19.86	2.30758G	-51.86	2.39904G	-36.32	2.4G	-38.97	2.50054G	-46.58	5.89498G	-46.91	2

Result

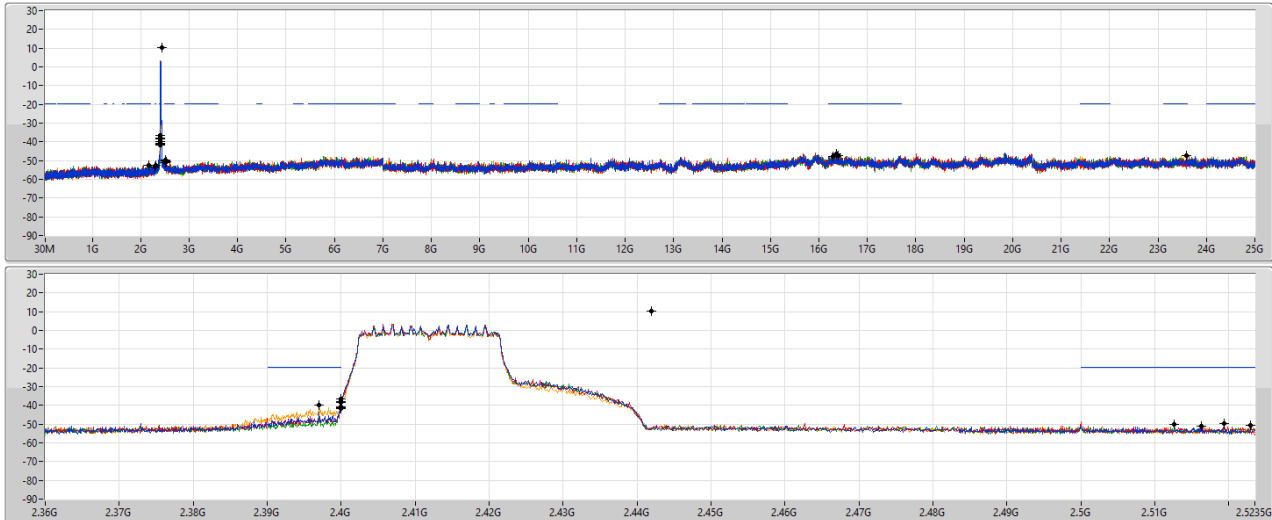
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	10.14	-19.86	2.1736G	-52.53	2.39992G	-41.57	2.4G	-37.99	2.51622G	-51.20	16.28755G	-47.64	1
2412MHz	Pass	2.44192G	10.14	-19.86	2.30874G	-52.41	2.39992G	-41.13	2.4G	-36.61	2.51934G	-49.86	16.39993G	-47.23	2
2412MHz	Pass	2.44192G	10.14	-19.86	2.17011G	-52.55	2.39992G	-38.53	2.4G	-37.99	2.51262G	-50.01	16.35779G	-46.61	3
2412MHz	Pass	2.44192G	10.14	-19.86	2.30059G	-53.28	2.39704G	-39.70	2.4G	-40.56	2.52286G	-50.71	23.5896G	-47.42	4
2437MHz	Pass	2.44192G	10.14	-19.86	2.30408G	-52.75	2.39992G	-39.47	2.4G	-40.58	2.50246G	-49.57	16.41117G	-46.98	1
2437MHz	Pass	2.44192G	10.14	-19.86	2.30758G	-51.86	2.39904G	-36.32	2.4G	-38.97	2.50054G	-46.58	5.89498G	-46.91	2
2437MHz	Pass	2.44192G	10.14	-19.86	2.30059G	-52.74	2.39944G	-36.66	2.4G	-38.14	2.50686G	-45.86	24.7359G	-47.60	3
2437MHz	Pass	2.44192G	10.14	-19.86	2.30991G	-51.95	2.3996G	-37.87	2.4G	-40.44	2.50006G	-47.14	16.43083G	-47.03	4
2462MHz	Pass	2.44192G	10.14	-19.86	890.94M	-52.49	2.396G	-52.08	2.4G	-53.33	2.50966G	-50.21	16.40555G	-46.93	1
2462MHz	Pass	2.44192G	10.14	-19.86	2.30292G	-53.04	2.39344G	-51.80	2.4G	-49.74	2.50486G	-50.21	5.90902G	-46.77	2
2462MHz	Pass	2.44192G	10.14	-19.86	2.30758G	-52.79	2.3944G	-51.44	2.4G	-51.78	2.51286G	-50.31	23.57274G	-47.17	3
2462MHz	Pass	2.44192G	10.14	-19.86	2.18642G	-52.54	2.39288G	-50.94	2.4G	-53.65	2.50006G	-49.49	17.68109G	-46.82	4

802.11ax HEW20_Nss4,(MCS0)_4TX

2412MHz

CSENdB

25/06/2022



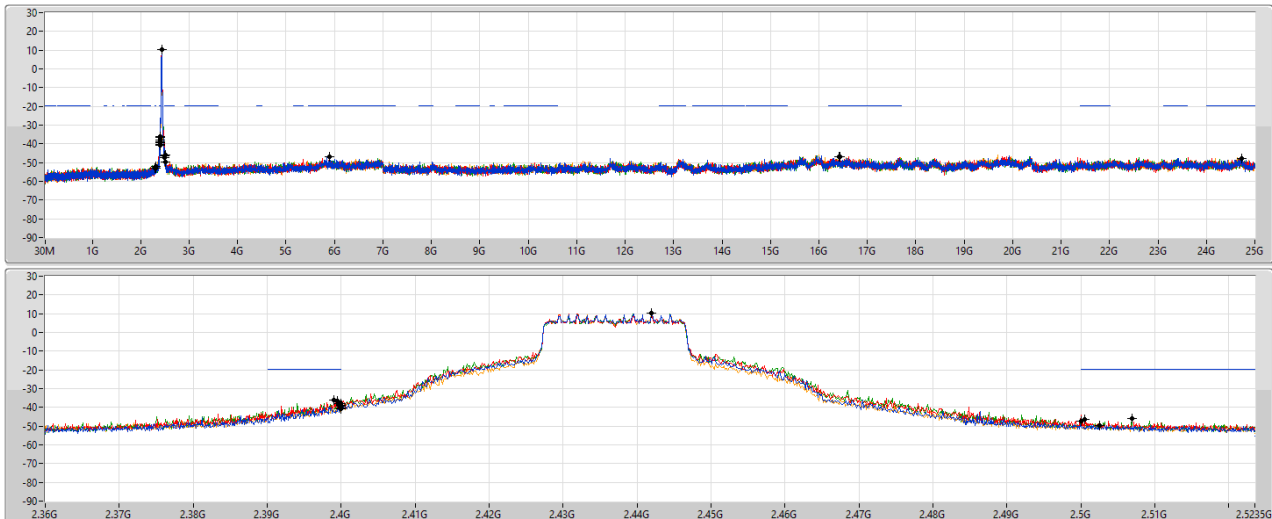
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	10.14	-19.86	2.1736G	-52.53	2.39992G	-41.57	2.4G	-37.99	2.51622G	-51.20	16.28755G	-47.64	1
2.44192G	10.14	-19.86	2.30874G	-52.41	2.39992G	-41.13	2.4G	-36.61	2.51934G	-49.86	16.39993G	-47.23	2
2.44192G	10.14	-19.86	2.17011G	-52.55	2.39992G	-38.53	2.4G	-37.99	2.51262G	-50.01	16.35779G	-46.61	3
2.44192G	10.14	-19.86	2.30059G	-53.28	2.39704G	-39.70	2.4G	-40.56	2.52286G	-50.71	23.5896G	-47.42	4

802.11ax HEW20_Nss4,(MCS0)_4TX

2437MHz

CSENdB

25/06/2022



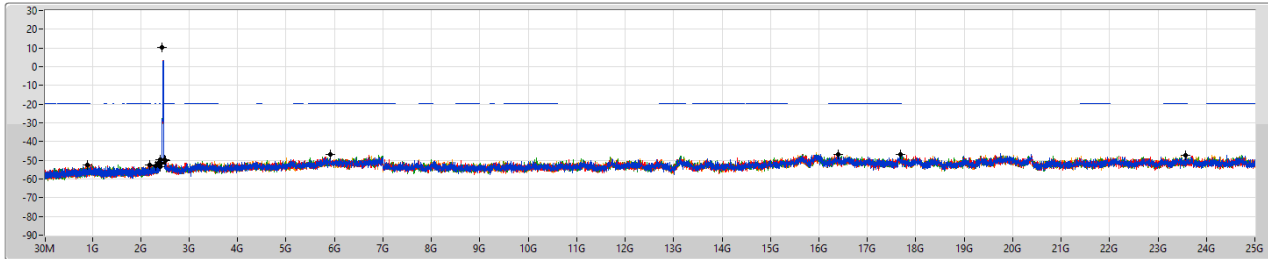
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	10.14	-19.86	2.30408G	-52.75	2.39992G	-39.47	2.4G	-40.58	2.50246G	-49.57	16.41117G	-46.98	1
2.44192G	10.14	-19.86	2.30758G	-51.86	2.39992G	-36.32	2.4G	-38.97	2.50054G	-46.58	5.89498G	-46.91	2
2.44192G	10.14	-19.86	2.30059G	-52.74	2.39944G	-36.66	2.4G	-38.14	2.50686G	-45.86	24.7359G	-47.60	3
2.44192G	10.14	-19.86	2.30991G	-51.95	2.3996G	-37.87	2.4G	-40.44	2.50006G	-47.14	16.43083G	-47.03	4

802.11ax HEW20_Nss4,(MCS0)_4TX

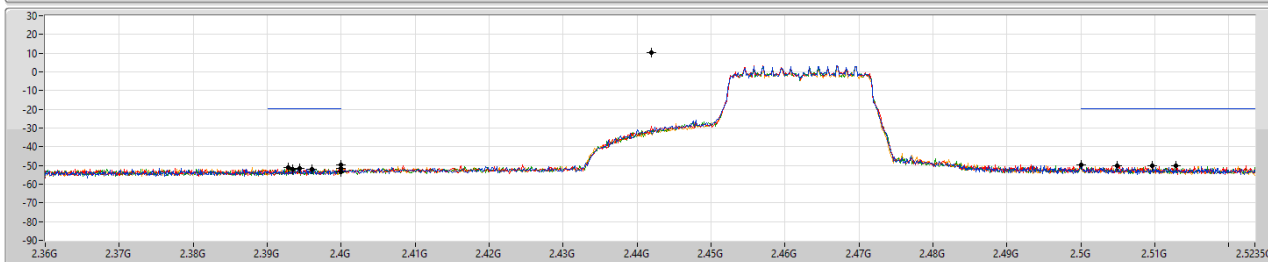
CSEndB

2462MHz

25/06/2022



Port 1
Port 2
Port 3
Port 4



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.44192G	10.14	-19.86	890.94M	-52.49	2.396G	-52.08	2.4G	-53.33	2.50966G	-50.21	16.40555G	-46.93	1
2.44192G	10.14	-19.86	2.30292G	-53.04	2.39344G	-51.80	2.4G	-49.74	2.50486G	-50.21	5.90902G	-46.77	2
2.44192G	10.14	-19.86	2.30758G	-52.79	2.3944G	-51.44	2.4G	-51.78	2.51286G	-50.31	23.57274G	-47.17	3
2.44192G	10.14	-19.86	2.18642G	-52.54	2.39288G	-50.94	2.4G	-53.65	2.50006G	-49.49	17.88109G	-46.82	4



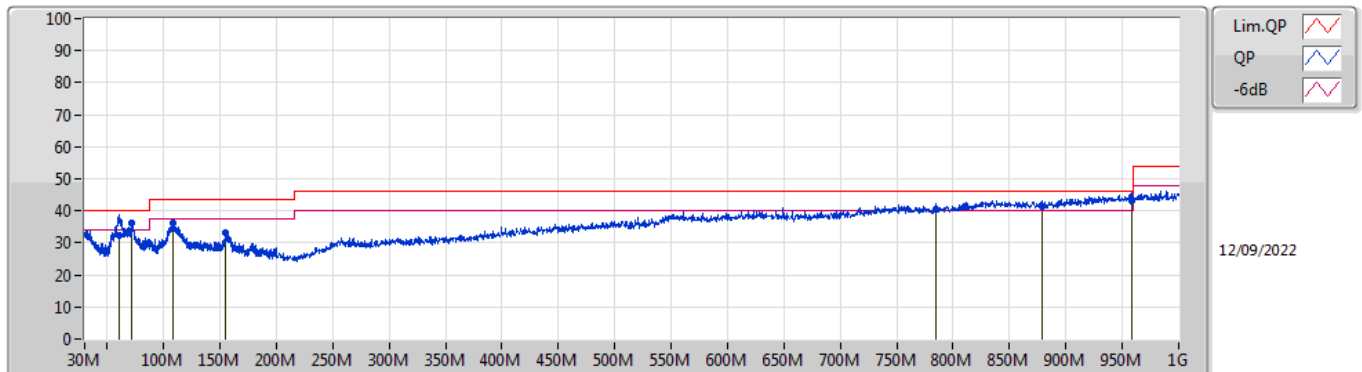
Radiated Emissions below 1GHz

Appendix F.1

Summary

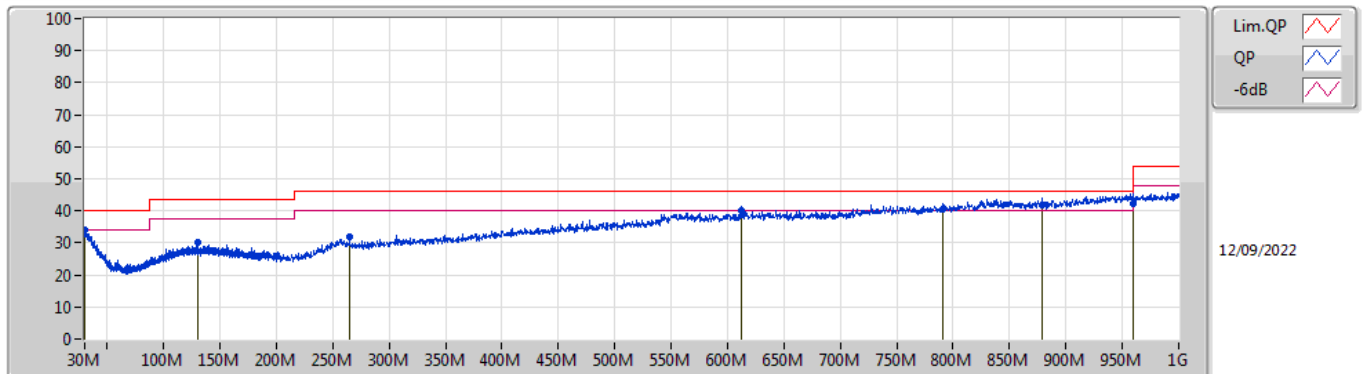
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	958M	42.91	46.00	-3.09	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	60.35M	32.14	40.00	-7.86	-14.56	3	Vertical	161	1.00	-	46.70	11.91	1.31	27.78
PK	71.74M	36.04	40.00	-3.96	-13.78	3	Vertical	257	1.00	-	49.82	12.40	1.60	27.78
PK	108.8M	36.05	43.50	-7.45	-8.79	3	Vertical	208	4.00	-	44.84	16.92	2.03	27.74
PK	155.12M	33.31	43.50	-10.19	-8.04	3	Vertical	352	4.00	-	41.35	16.73	2.75	27.52
PK	784.4M	40.57	46.00	-5.43	4.34	3	Vertical	3	1.00	-	36.23	25.70	5.91	27.27
PK	878.4M	41.24	46.00	-4.76	5.73	3	Vertical	248	1.00	-	35.51	26.21	6.26	26.74
PK	958M	42.91	46.00	-3.09	6.91	3	Vertical	0	3.00	"Worst"	36.00	26.71	6.53	26.33

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30.6M	33.87	40.00	-6.13	-3.07	3	Horizontal	242	4.00	-	36.94	24.09	0.72	27.88
PK	130.05M	30.37	43.50	-13.13	-7.45	3	Horizontal	169	1.00	-	37.82	17.74	2.40	27.59
PK	265.2M	32.02	46.00	-13.98	-3.60	3	Horizontal	225	2.00	-	35.62	19.38	3.36	26.34
PK	612.8M	40.11	46.00	-5.89	1.80	3	Horizontal	180	2.00	-	38.31	24.46	5.15	27.81
PK	790.4M	40.57	46.00	-5.43	4.40	3	Horizontal	360	2.00	-	36.17	25.67	5.94	27.21
PK	878.8M	41.89	46.00	-4.11	5.73	3	Horizontal	8	1.00	-	36.16	26.21	6.26	26.74
PK	959.2M	42.19	46.00	-3.81	6.93	3	Horizontal	79	1.00	"Worst"	35.26	26.72	6.54	26.33

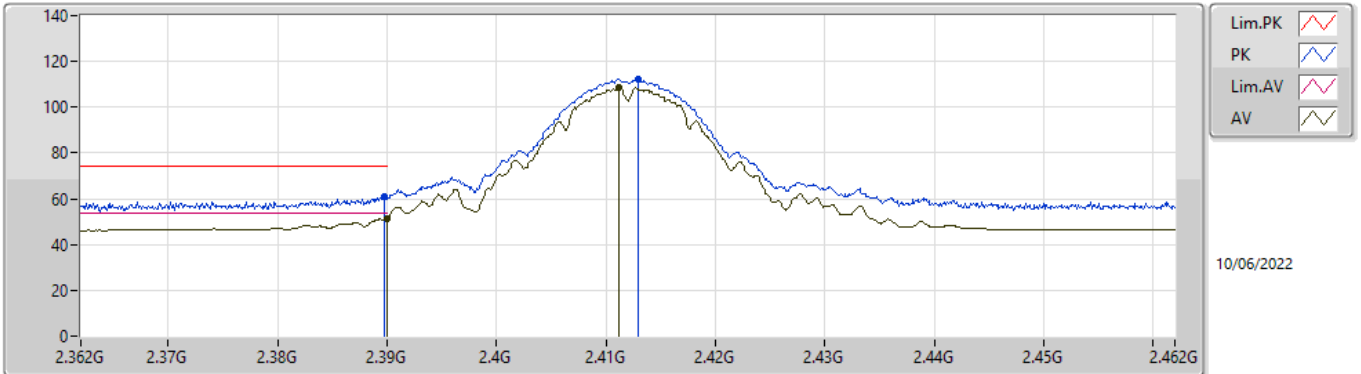


Summary

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)_1TX	Pass	AV	2.39G	53.94	54.00	-0.06	3	Horizontal	49	2.44	82

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

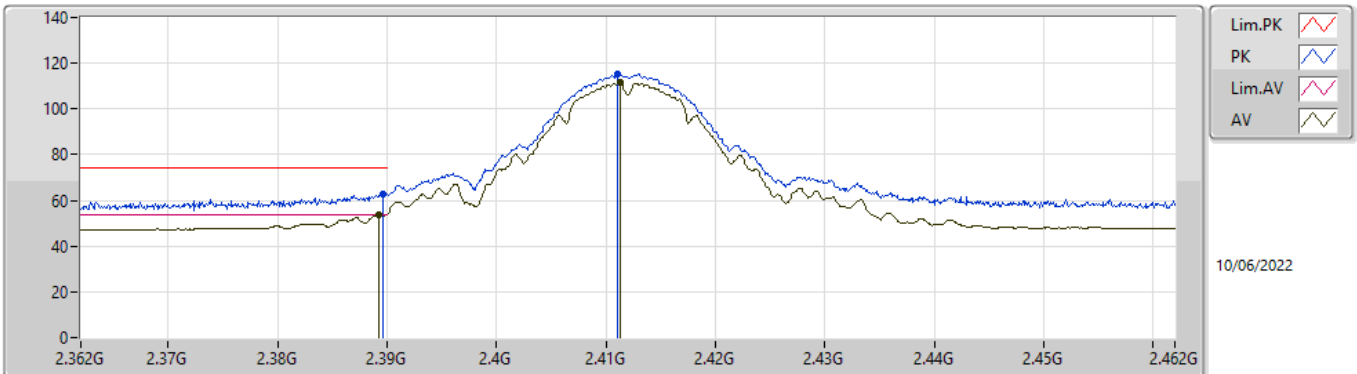


EUT_Y_1TX
SET 94
94
2.71

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	60.93	74.00	-13.07	28.28	3	Vertical	5	2.95	94	28.26	4.39	-
AV	2.39G	51.29	54.00	-2.71	18.64	3	Vertical	5	2.95	94	28.26	4.39	-
PK	2.413G	112.23	Inf	-Inf	79.52	3	Vertical	5	2.95	94	28.30	4.41	-
AV	2.4112G	108.49	Inf	-Inf	75.78	3	Vertical	5	2.95	94	28.30	4.41	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

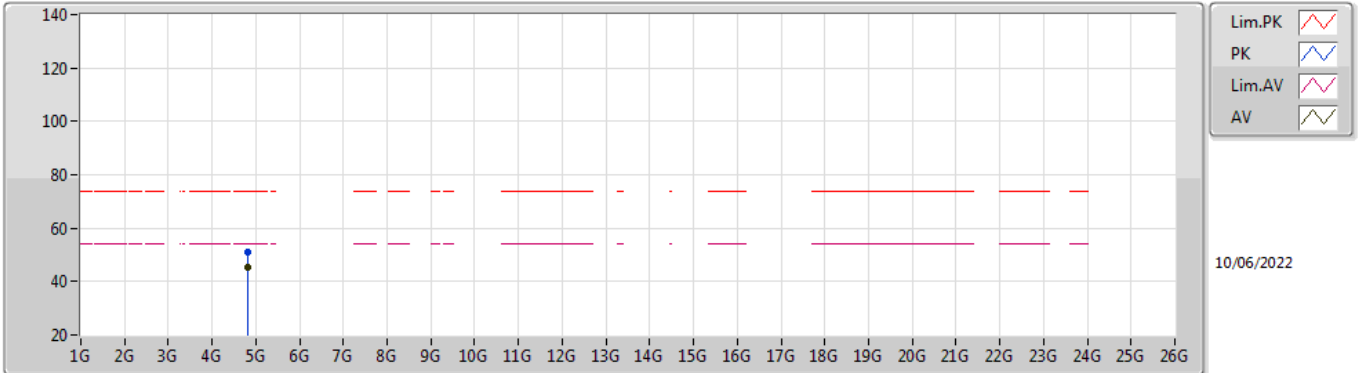


EUT_Y_1TX
SET 94
80\108\94
6.89\ -34.23\0.08

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	2.3896G	62.96	74.00	-11.04	30.31	3	Horizontal	49	2.44	94	28.26	4.39	-
AV	2.3892G	53.92	54.00	-0.08	21.27	3	Horizontal	49	2.44	94	28.26	4.39	-
PK	2.4111G	115.21	Inf	-Inf	82.50	3	Horizontal	49	2.44	94	28.30	4.41	-
AV	2.4113G	111.49	Inf	-Inf	78.78	3	Horizontal	49	2.44	94	28.30	4.41	-

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

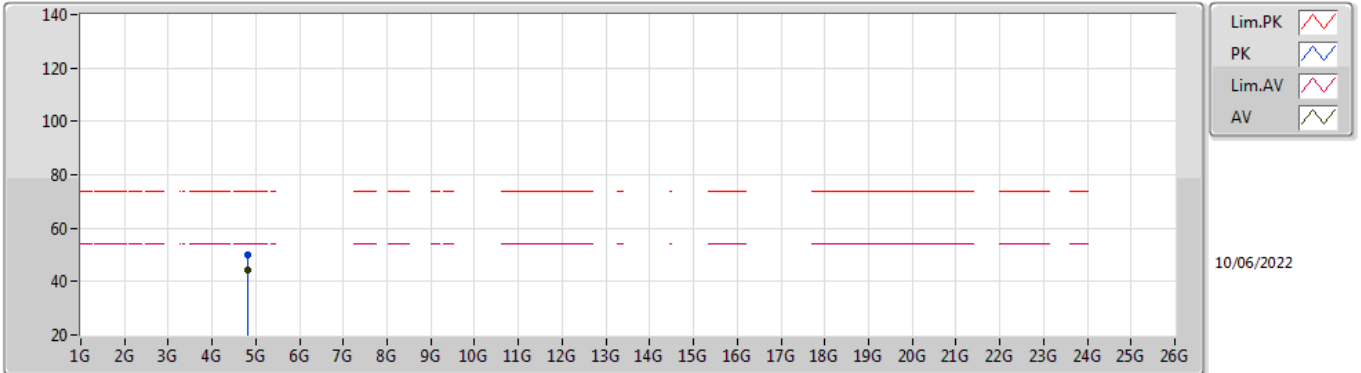


EUT Z_1TX
SET 94

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	4.82404G	50.98	74.00	-23.02	45.96	3	Vertical	236	2.45	94	33.34	7.10	35.42
AV	4.824G	45.24	54.00	-8.76	40.22	3	Vertical	236	2.45	94	33.34	7.10	35.42

802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX

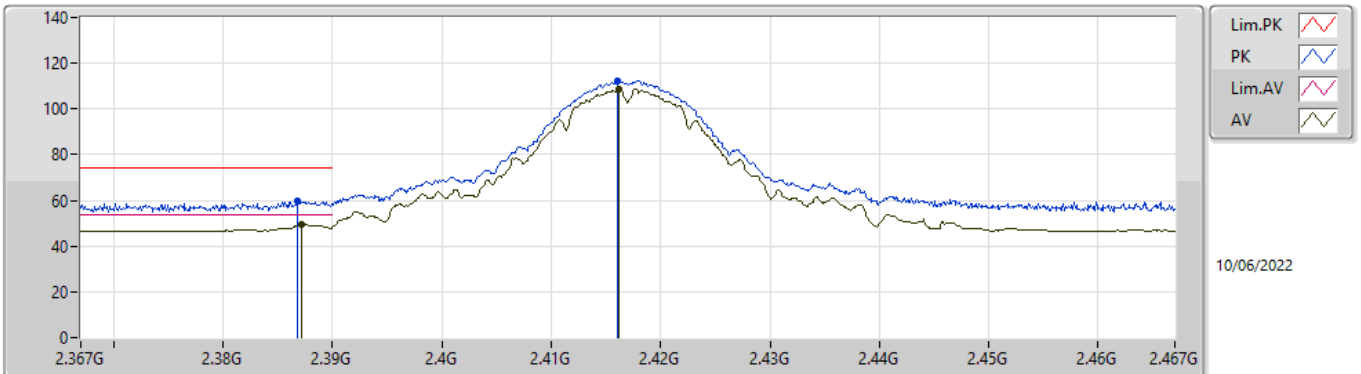


EUT Z_1TX
SET 94

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	4.82412G	50.20	74.00	-23.80	45.18	3	Horizontal	360	2.87	94	33.34	7.10	35.42
AV	4.82396G	44.27	54.00	-9.73	39.25	3	Horizontal	360	2.87	94	33.34	7.10	35.42

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

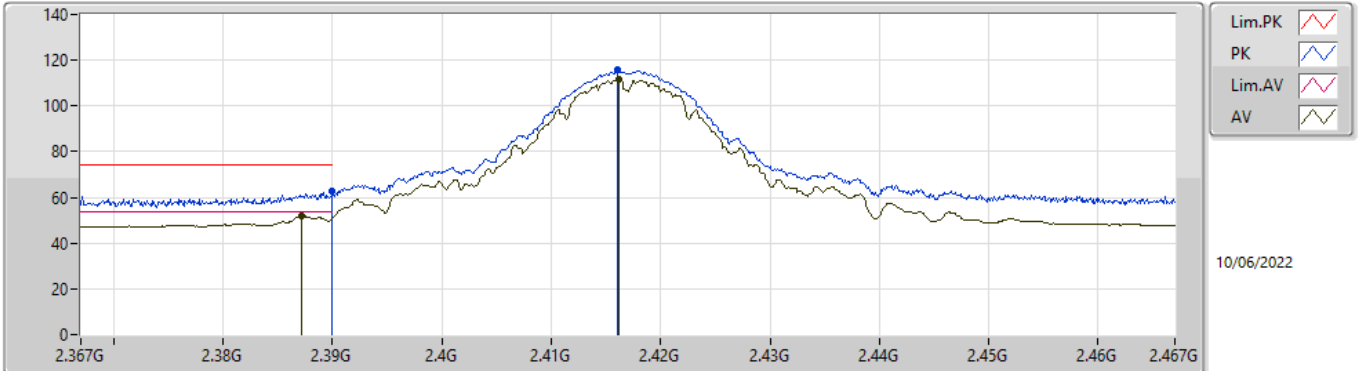


EUT Y_1TX
SET 96
96
4.29

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	59.50	74.00	-14.50	26.86	3	Vertical	5	2.95	96	28.25	4.39	-	
AV	2.3872G	49.71	54.00	-4.29	17.07	3	Vertical	5	2.95	96	28.25	4.39	-	
PK	2.4161G	112.49	Inf	-Inf	79.78	3	Vertical	5	2.95	96	28.30	4.41	-	
AV	2.4162G	108.80	Inf	-Inf	76.09	3	Vertical	5	2.95	96	28.30	4.41	-	

802.11b_Nss1,(1Mbps)_1TX

2417MHz_TX

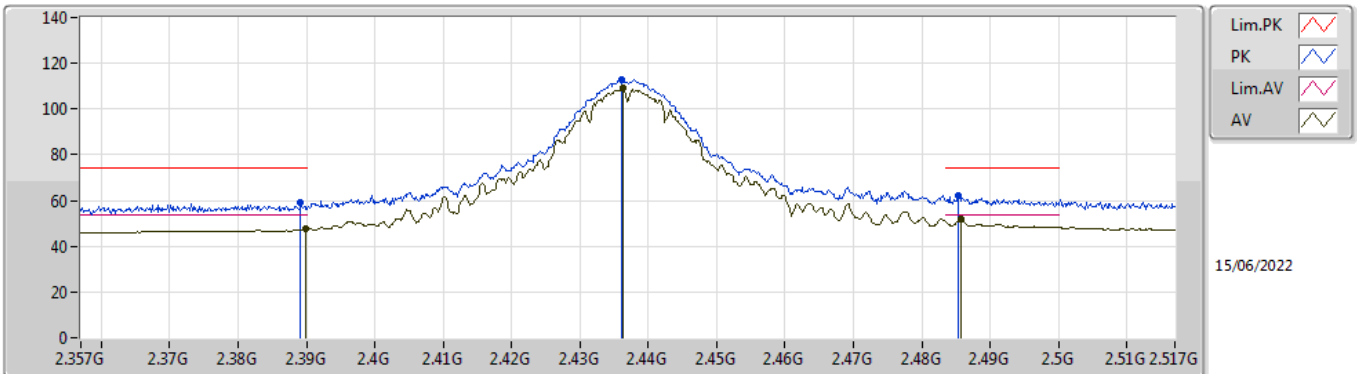


EUT_Y_1TX
SET 96
80\108\94\101\98\97\96
7.05\ -34.51\3.62\ -9.06\ -3.32\ -0.96\2.13

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	62.50	74.00	-11.50	29.85	3	Horizontal	50	2.43	96	28.26	4.39	-
AV	2.3872G	51.87	54.00	-2.13	19.23	3	Horizontal	50	2.43	96	28.25	4.39	-
PK	2.4161G	115.62	Inf	-Inf	82.91	3	Horizontal	50	2.43	96	28.30	4.41	-
AV	2.4162G	111.87	Inf	-Inf	79.16	3	Horizontal	50	2.43	96	28.30	4.41	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

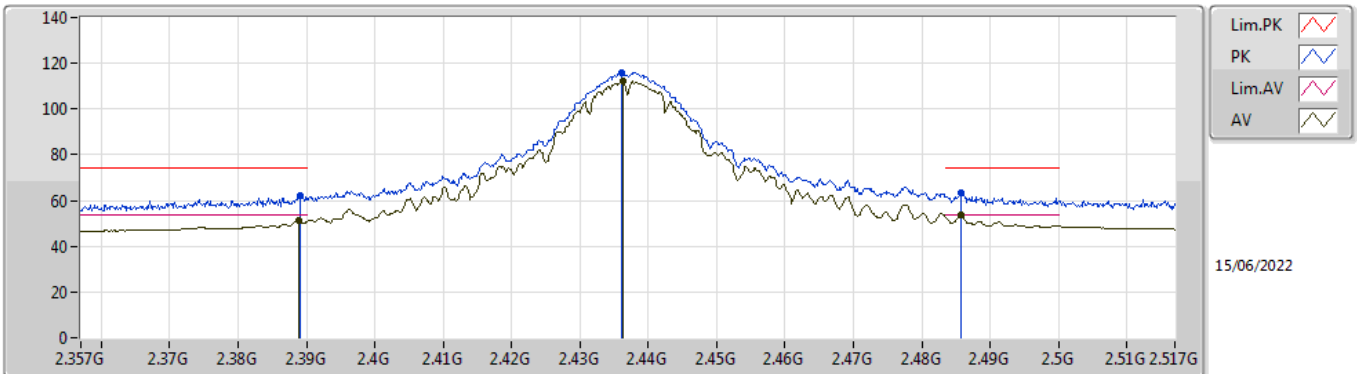


EUT V_1TX
SET 101
101
2.29

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	2.38916G	59.02	74.00	-14.98	26.37	3	Vertical	5	2.90	101	28.26	4.39	-
AV	2.38996G	47.41	54.00	-6.59	14.76	3	Vertical	5	2.90	101	28.26	4.39	-
PK	2.43604G	112.78	Inf	-Inf	80.06	3	Vertical	5	2.90	101	28.30	4.42	-
AV	2.4362G	109.07	Inf	-Inf	76.35	3	Vertical	5	2.90	101	28.30	4.42	-
PK	2.48532G	62.16	74.00	-11.84	29.28	3	Vertical	5	2.90	101	28.44	4.44	-
AV	2.48564G	51.71	54.00	-2.29	18.83	3	Vertical	5	2.90	101	28.44	4.44	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

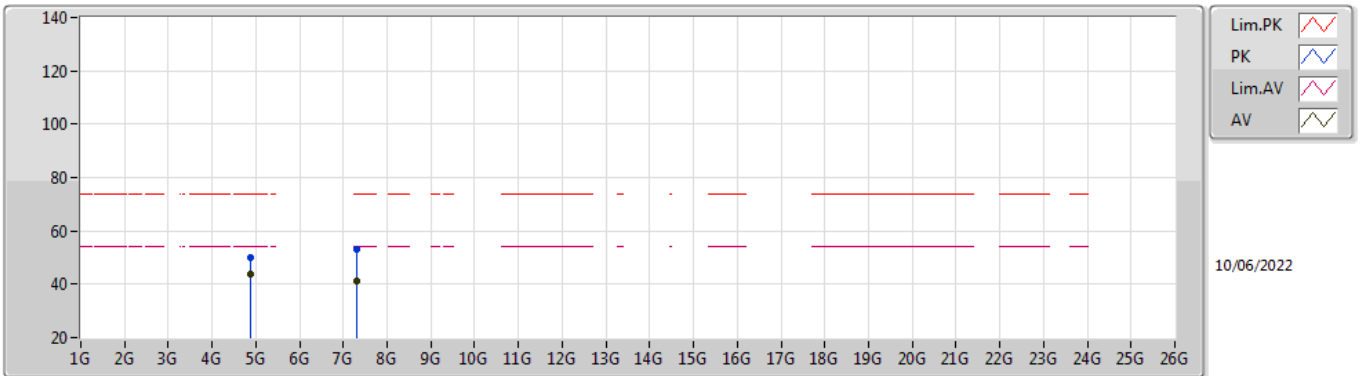


EUT V_1TX
SET 101
80\98\107\103\101
7.04\5.21\21.28\21.36\0.33

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	62.44	74.00	-11.56	29.79	3	Horizontal	45	2.69	101	28.26	4.39	-
AV	2.38884G	51.09	54.00	-2.91	18.44	3	Horizontal	45	2.69	101	28.26	4.39	-
PK	2.43604G	116.04	Inf	-Inf	83.32	3	Horizontal	45	2.69	101	28.30	4.42	-
AV	2.4362G	112.27	Inf	-Inf	79.55	3	Horizontal	45	2.69	101	28.30	4.42	-
PK	2.48564G	63.44	74.00	-10.56	30.56	3	Horizontal	45	2.69	101	28.44	4.44	-
AV	2.4858G	53.67	54.00	-0.33	20.79	3	Horizontal	45	2.69	101	28.44	4.44	-

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

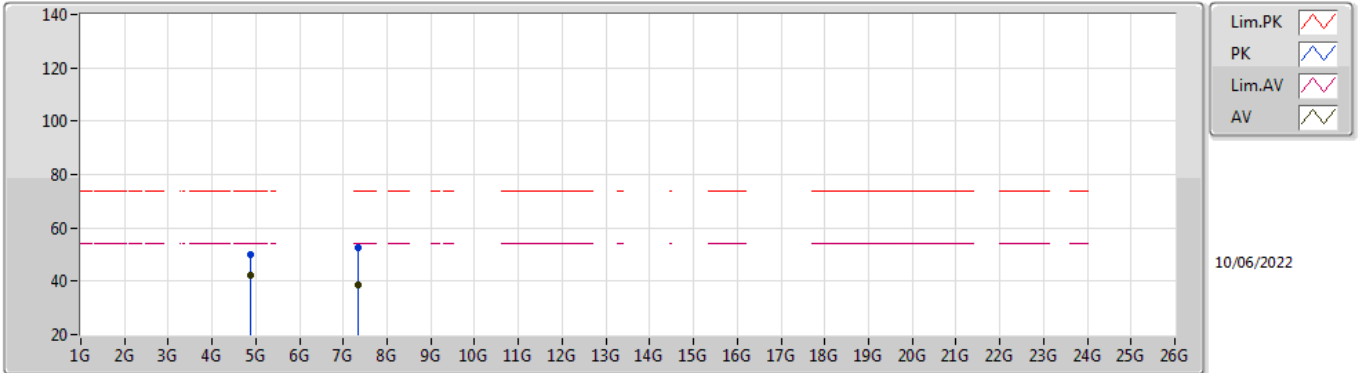


EUT_Z_1TX
SET 101

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	4.8738G	50.01	74.00	-23.99	44.71	3	Vertical	235	2.26	101	33.60	7.10	35.40
AV	4.87396G	43.90	54.00	-10.10	38.60	3	Vertical	235	2.26	101	33.60	7.10	35.40
PK	7.3096G	52.94	74.00	-21.06	43.17	3	Vertical	223	1.97	101	36.92	8.42	35.57
AV	7.30984G	41.24	54.00	-12.76	31.47	3	Vertical	223	1.97	101	36.92	8.42	35.57

802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX

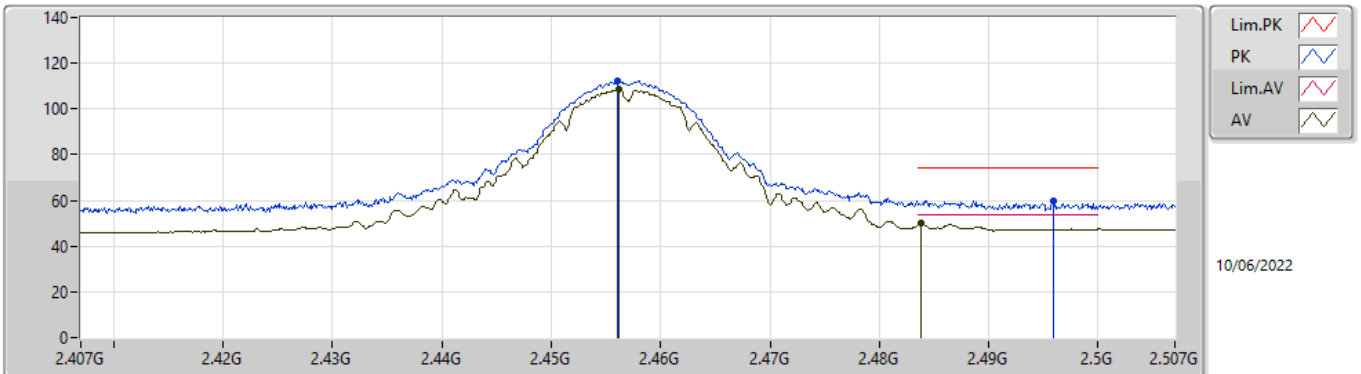


EUT_Z_1TX
SET 101

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	4.87384G	49.82	74.00	-24.18	44.52	3	Horizontal	349	2.26	101	33.60	7.10	35.40	
AV	4.87404G	42.26	54.00	-11.74	36.96	3	Horizontal	349	2.26	101	33.60	7.10	35.40	
PK	7.32424G	52.54	74.00	-21.46	42.71	3	Horizontal	103	1.80	101	36.95	8.45	35.57	
AV	7.32232G	38.56	54.00	-15.44	28.75	3	Horizontal	103	1.80	101	36.94	8.44	35.57	

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

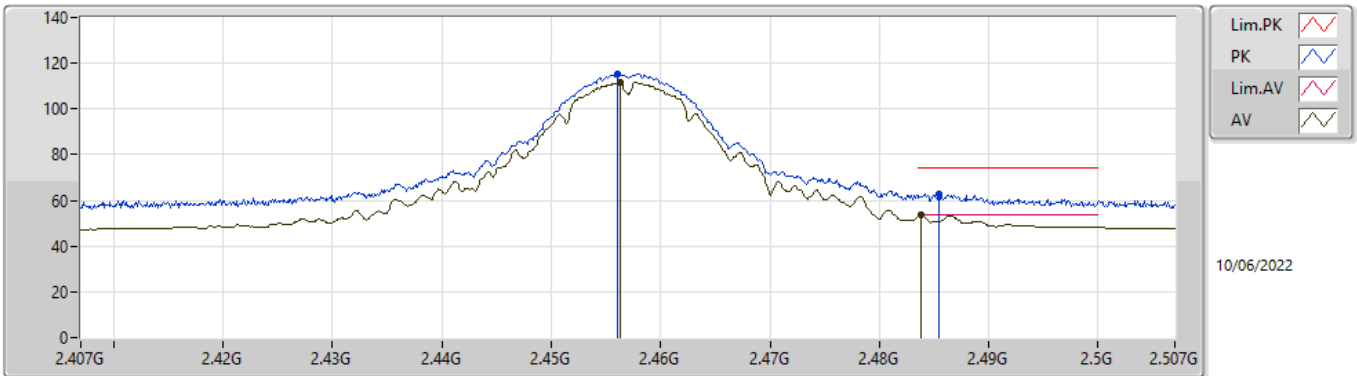


EUT_Y_1TX
SET 94
94
4.17

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	2.456G	112.36	Inf	-Inf	79.61	3	Vertical	27	2.52	94	28.32	4.43	-	
AV	2.4562G	108.69	Inf	-Inf	75.94	3	Vertical	27	2.52	94	28.32	4.43	-	
PK	2.4959G	59.92	74.00	-14.08	26.99	3	Vertical	27	2.52	94	28.48	4.45	-	
AV	2.4838G	49.83	54.00	-4.17	16.95	3	Vertical	27	2.52	94	28.44	4.44	-	

802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX

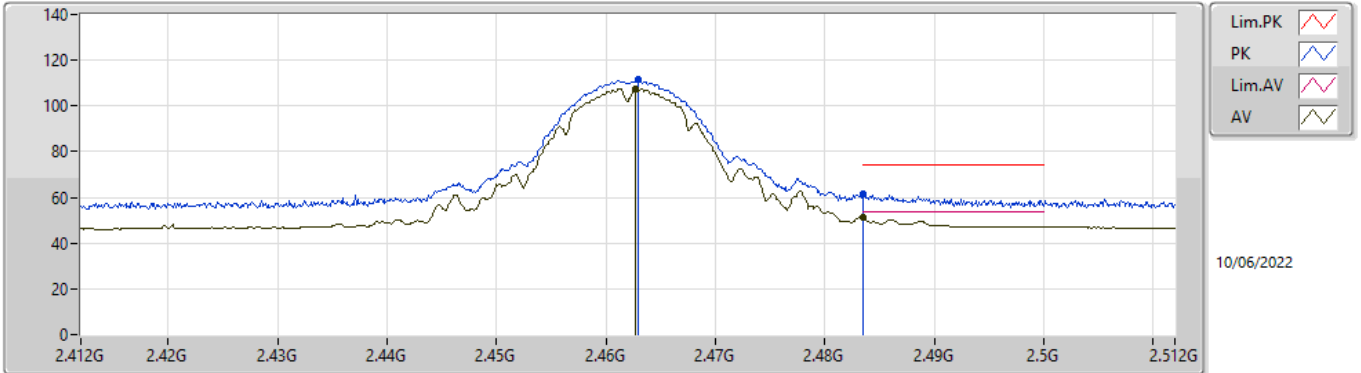


EUT_Y_1TX
SET 94
80\108\94
6.45\ -37.30\0.23

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	2.456G	115.55	Inf	-Inf	82.80	3	Horizontal	50	2.32	94	28.32	4.43	-	
AV	2.4563G	111.74	Inf	-Inf	78.98	3	Horizontal	50	2.32	94	28.33	4.43	-	
PK	2.4854G	62.71	74.00	-11.29	29.83	3	Horizontal	50	2.32	94	28.44	4.44	-	
AV	2.4838G	53.77	54.00	-0.23	20.89	3	Horizontal	50	2.32	94	28.44	4.44	-	

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

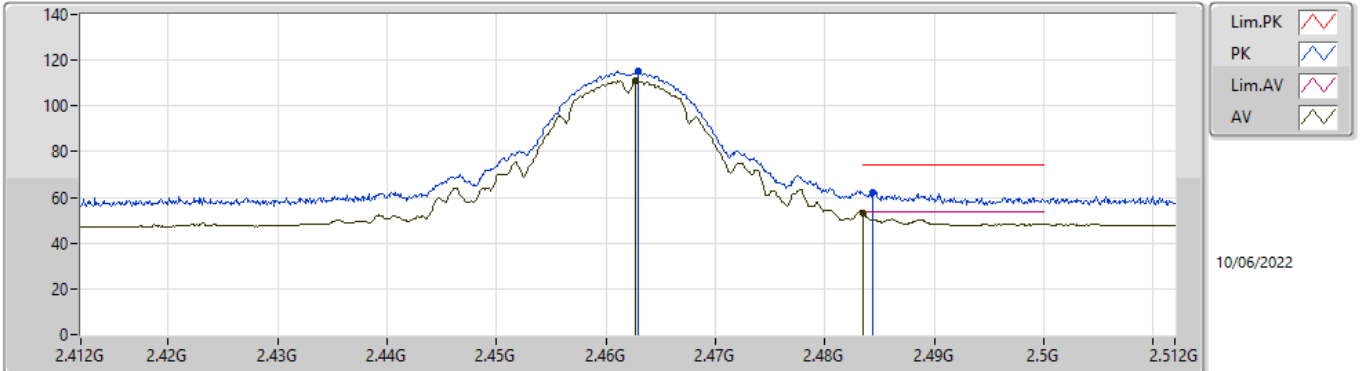


EUT_Y_1TX
SET 89
89
2.90

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	111.53	Inf	-Inf	78.75	3	Vertical	9	2.92	89	28.35	4.43	-	
AV	2.4627G	107.48	Inf	-Inf	74.70	3	Vertical	9	2.92	89	28.35	4.43	-	
PK	2.4835G	61.42	74.00	-12.58	28.55	3	Vertical	9	2.92	89	28.43	4.44	-	
AV	2.4835G	51.10	54.00	-2.90	18.23	3	Vertical	9	2.92	89	28.43	4.44	-	

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

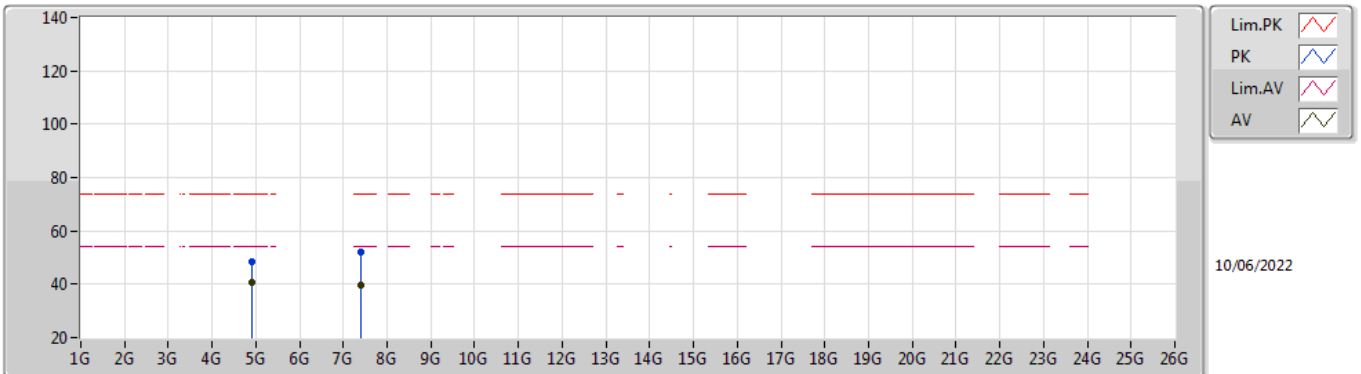


EUT Y_1TX
SET 89
80\108\94\87\90\91\90\89
5.99\ -37.25\ -5.38\ 4.46\ 0.71\ -1.53\ -1.45\ 0.64

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	115.04	Inf	-Inf	82.26	3	Horizontal	52	2.55	89	28.35	4.43	-	
AV	2.4627G	110.98	Inf	-Inf	78.20	3	Horizontal	52	2.55	89	28.35	4.43	-	
PK	2.4844G	62.16	74.00	-11.84	29.28	3	Horizontal	52	2.55	89	28.44	4.44	-	
AV	2.4835G	53.36	54.00	-0.64	20.49	3	Horizontal	52	2.55	89	28.43	4.44	-	

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

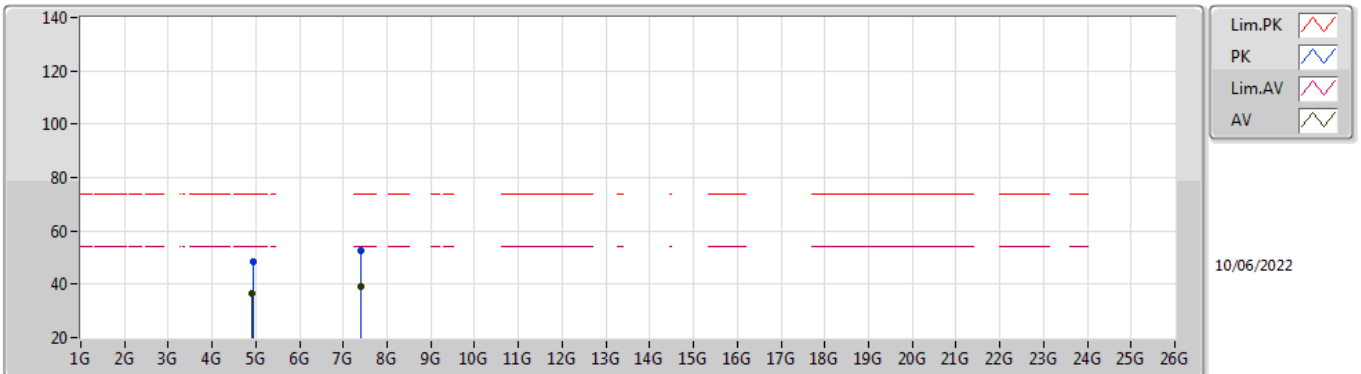


EUT Z_1TX
SET 89

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	4.92392G	48.45	74.00	-25.55	42.97	3	Vertical	241	2.24	89	33.75	7.10	35.37
AV	4.924G	40.61	54.00	-13.39	35.13	3	Vertical	241	2.24	89	33.75	7.10	35.37
PK	7.38524G	52.08	74.00	-21.92	42.10	3	Vertical	146	1.24	89	37.00	8.57	35.59
AV	7.38436G	39.63	54.00	-14.37	29.65	3	Vertical	146	1.24	89	37.00	8.57	35.59

802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX

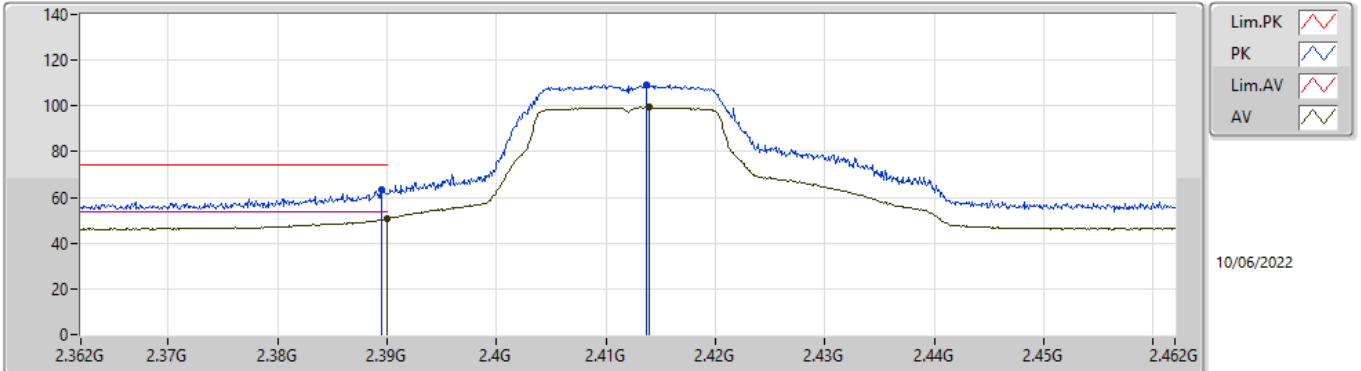


EUT Z_1TX
SET 89

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	4.93904G	48.34	74.00	-25.66	42.82	3	Horizontal	-0	2.88	89	33.78	7.10	35.36	
AV	4.92404G	36.76	54.00	-17.24	31.28	3	Horizontal	-0	2.88	89	33.75	7.10	35.37	
PK	7.39896G	52.51	74.00	-21.49	42.50	3	Horizontal	-0	2.58	89	37.00	8.60	35.59	
AV	7.39788G	39.14	54.00	-14.86	29.13	3	Horizontal	-0	2.58	89	37.00	8.60	35.59	

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

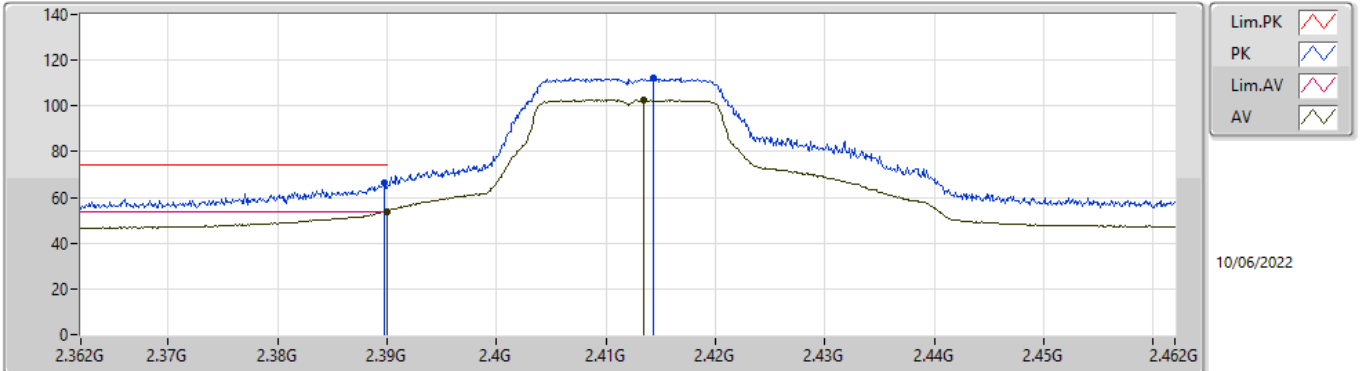


EUT_Y_1TX
SET 82
82
3.54

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	2.3895G	63.14	74.00	-10.86	30.49	3	Vertical	0	2.95	82	28.26	4.39	-	
AV	2.39G	50.46	54.00	-3.54	17.81	3	Vertical	0	2.95	82	28.26	4.39	-	
PK	2.4137G	109.32	Inf	-Inf	76.61	3	Vertical	0	2.95	82	28.30	4.41	-	
AV	2.4139G	99.34	Inf	-Inf	66.63	3	Vertical	0	2.95	82	28.30	4.41	-	

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

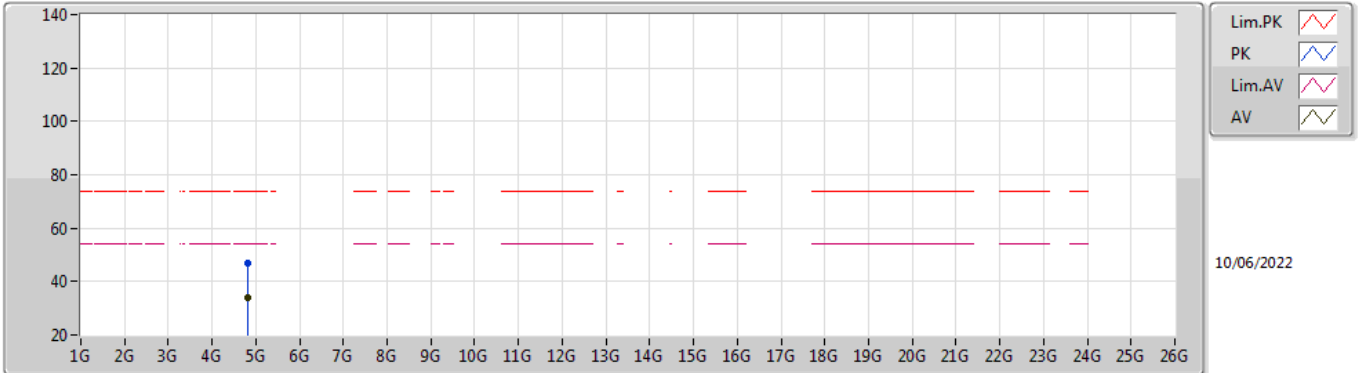


EUT_Y_1TX
SET 82
80\108\94\87\84\83\82
1.64\ -35.18\ -12.81\ -6.37\ -2.68\ -1.89\ 0.06

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	66.15	74.00	-7.85	33.50	3	Horizontal	49	2.44	82	28.26	4.39	-
AV	2.39G	53.94	54.00	-0.06	21.29	3	Horizontal	49	2.44	82	28.26	4.39	-
PK	2.4143G	112.12	Inf	-Inf	79.41	3	Horizontal	49	2.44	82	28.30	4.41	-
AV	2.4134G	102.62	Inf	-Inf	69.91	3	Horizontal	49	2.44	82	28.30	4.41	-

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

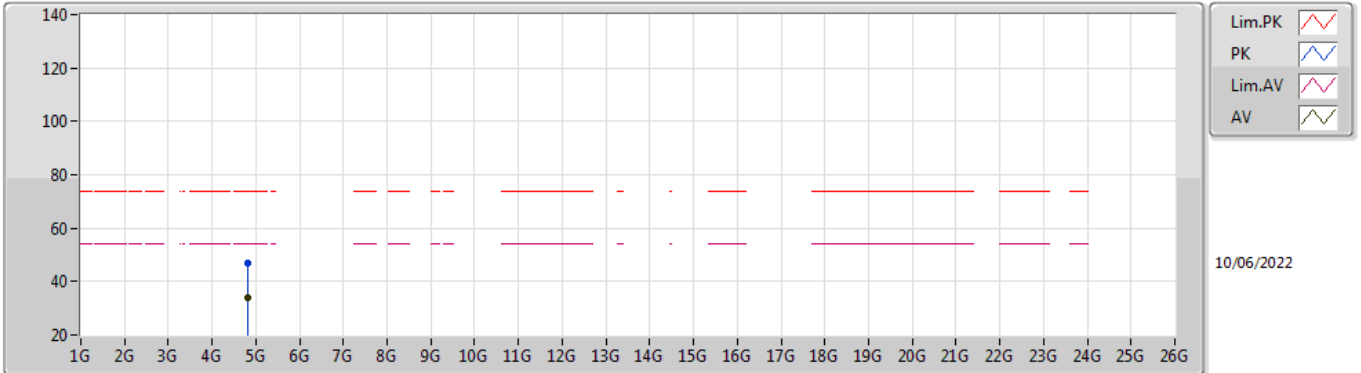


EUT Z_1TX
SET 82

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	4.82492G	46.76	74.00	-27.24	41.73	3	Vertical	238	2.28	82	33.35	7.10	35.42	
AV	4.82144G	34.01	54.00	-19.99	29.00	3	Vertical	238	2.28	82	33.33	7.10	35.42	

802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX

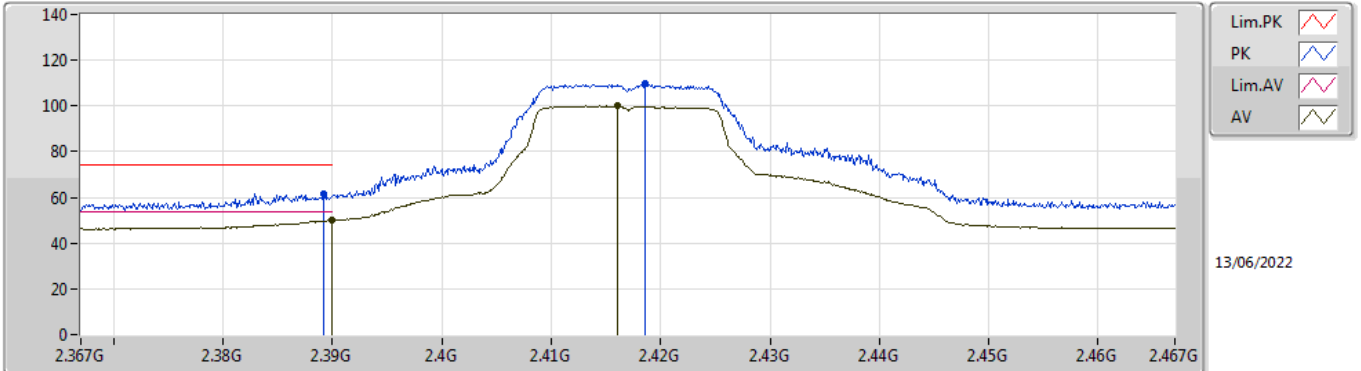


EUT Z_1TX
SET 82

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	4.82004G	46.77	74.00	-27.23	41.77	3	Horizontal	360	2.87	82	33.32	7.10	35.42
AV	4.82496G	33.88	54.00	-20.12	28.85	3	Horizontal	360	2.87	82	33.35	7.10	35.42

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

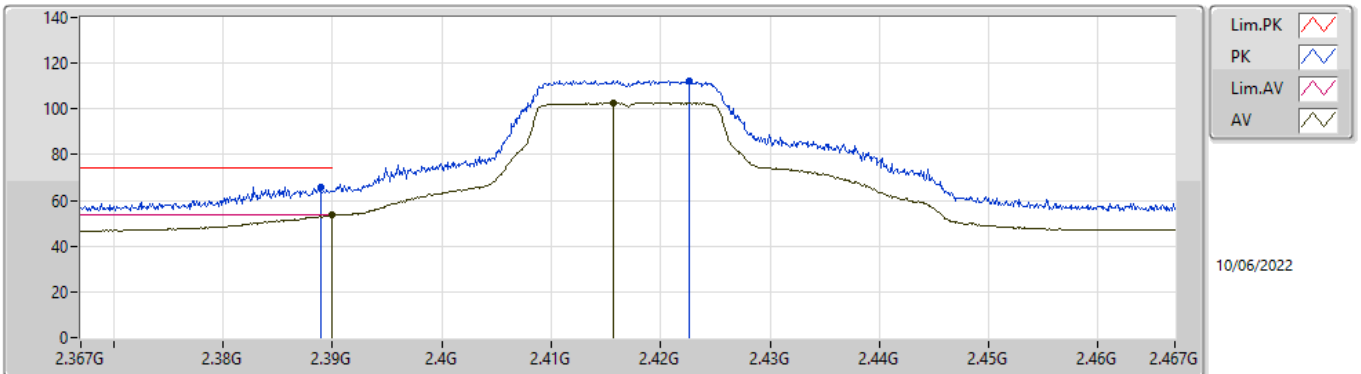


EUT V_1TX
SET 84
84
3.93

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	61.63	74.00	-12.37	28.98	3	Vertical	0	2.95	84	28.26	4.39	-	
AV	2.3899G	50.07	54.00	-3.93	17.42	3	Vertical	0	2.95	84	28.26	4.39	-	
PK	2.4186G	109.68	Inf	-Inf	76.97	3	Vertical	0	2.95	84	28.30	4.41	-	
AV	2.416G	100.08	Inf	-Inf	67.37	3	Vertical	0	2.95	84	28.30	4.41	-	

802.11g_Nss1,(6Mbps)_1TX

2417MHz_TX

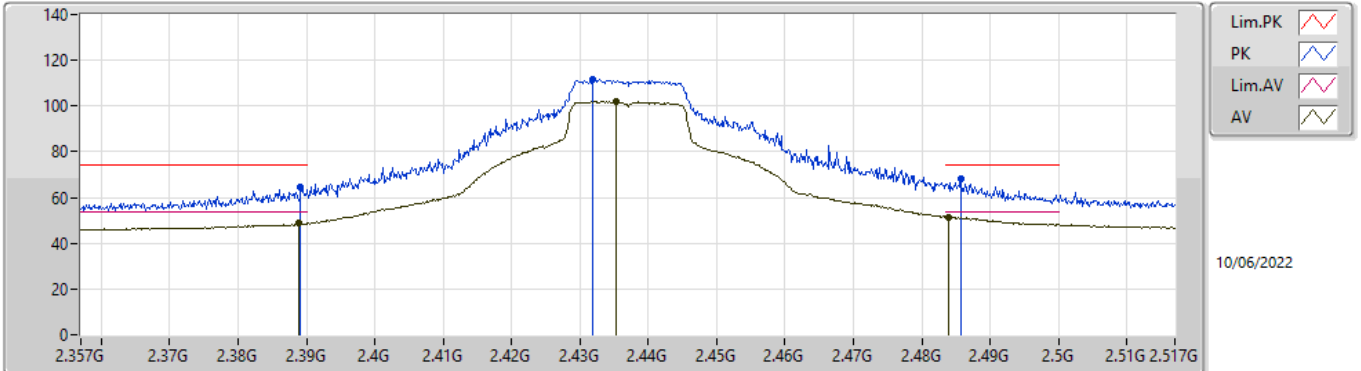


EUT_Y_1TX
SET 84
80\108\94\87\84
3.46\ -33.16\ -5.41\ -1.72\ 0.44

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	2.3889G	65.79	74.00	-8.21	33.14	3	Horizontal	54	1.14	84	28.26	4.39	-
AV	2.39G	53.56	54.00	-0.44	20.91	3	Horizontal	54	1.14	84	28.26	4.39	-
PK	2.4226G	112.53	Inf	-Inf	79.82	3	Horizontal	54	1.14	84	28.30	4.41	-
AV	2.4157G	102.76	Inf	-Inf	70.05	3	Horizontal	54	1.14	84	28.30	4.41	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

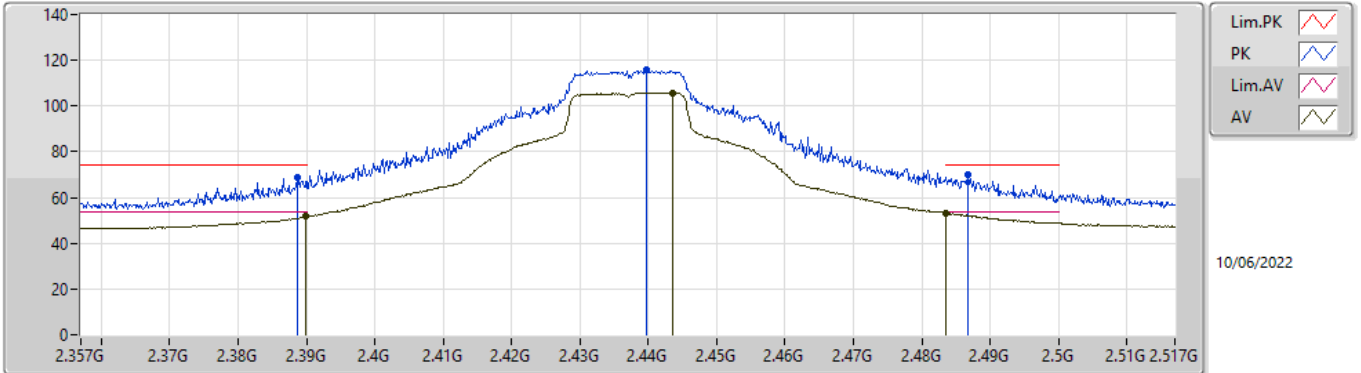


EUT Y_1TX
SET 94
94
2.61

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	2.38916G	64.30	74.00	-9.70	31.65	3	Vertical	20	2.90	94	28.26	4.39	-	
AV	2.38884G	48.59	54.00	-5.41	15.94	3	Vertical	20	2.90	94	28.26	4.39	-	
PK	2.43188G	111.56	Inf	-Inf	78.84	3	Vertical	20	2.90	94	28.30	4.42	-	
AV	2.43524G	101.87	Inf	-Inf	69.15	3	Vertical	20	2.90	94	28.30	4.42	-	
PK	2.48564G	68.02	74.00	-5.98	35.14	3	Vertical	20	2.90	94	28.44	4.44	-	
AV	2.48388G	51.39	54.00	-2.61	18.51	3	Vertical	20	2.90	94	28.44	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

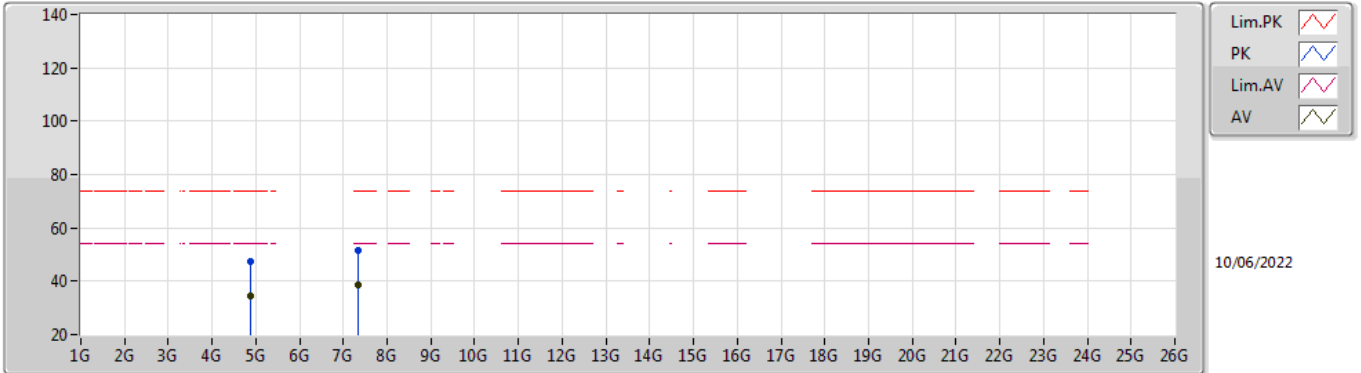


EUT_Y_1TX
SET 94
80\108\94\101\98\97\96\95\94
6.41\ -24.78\0.65\ -5.27\ -2.51\ -1.56\ -0.66\ -0.47\0.88

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	2.38868G	68.54	74.00	-5.46	35.90	3	Horizontal	50	2.63	94	28.25	4.39	-
AV	2.3898G	51.64	54.00	-2.36	18.99	3	Horizontal	50	2.63	94	28.26	4.39	-
PK	2.43972G	115.66	Inf	-Inf	82.94	3	Horizontal	50	2.63	94	28.30	4.42	-
AV	2.44356G	105.84	Inf	-Inf	73.12	3	Horizontal	50	2.63	94	28.30	4.42	-
PK	2.48676G	70.16	74.00	-3.84	37.27	3	Horizontal	50	2.63	94	28.45	4.44	-
AV	2.4835G	53.12	54.00	-0.88	20.25	3	Horizontal	50	2.63	94	28.43	4.44	-

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

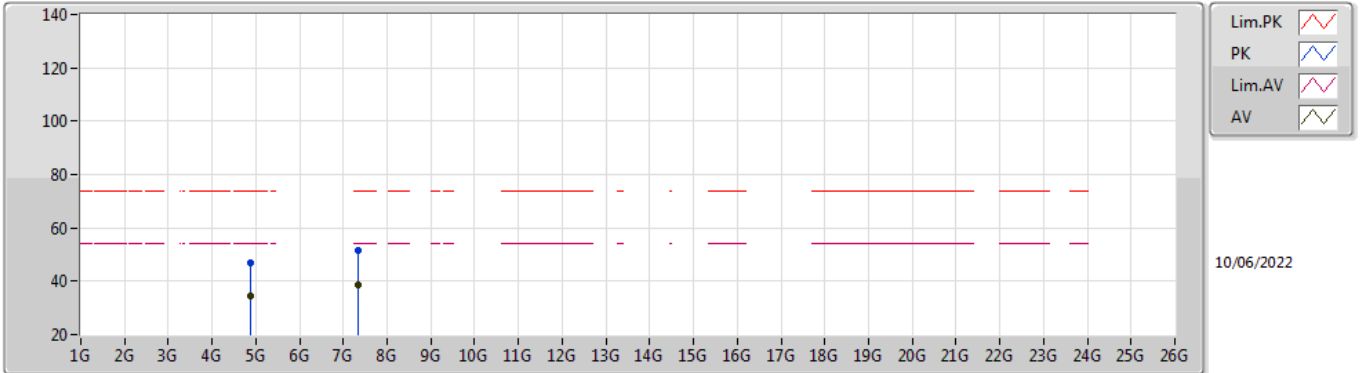


EUT_Z_1TX
SET 94

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	4.88692G	47.49	74.00	-26.51	42.13	3	Vertical	181	2.46	94	33.65	7.10	35.39
AV	4.8742G	34.34	54.00	-19.66	29.04	3	Vertical	181	2.46	94	33.60	7.10	35.40
PK	7.33032G	51.65	74.00	-22.35	41.81	3	Vertical	270	1.80	94	36.96	8.46	35.58
AV	7.32988G	38.53	54.00	-15.47	28.69	3	Vertical	270	1.80	94	36.96	8.46	35.58

802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX

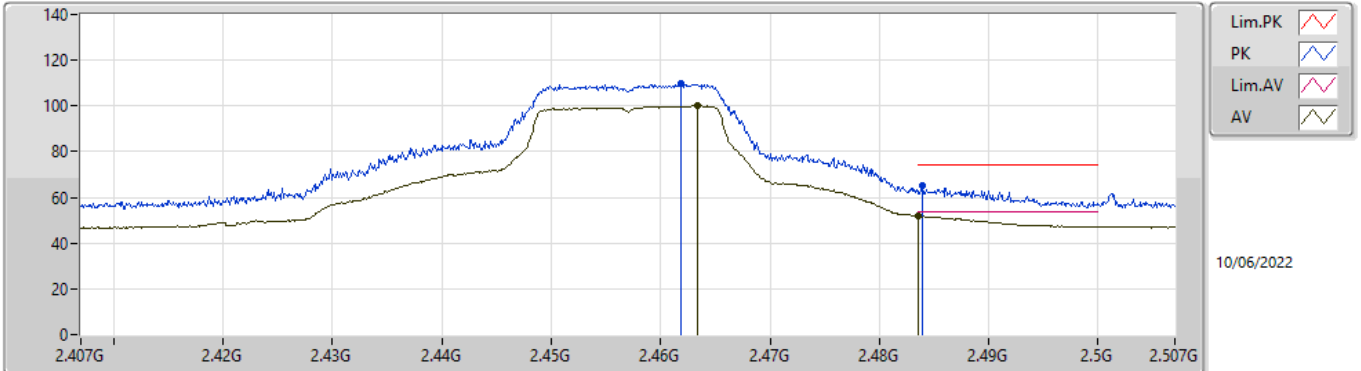


EUT_Z_1TX
SET 94

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	4.87484G	46.71	74.00	-27.29	41.41	3	Horizontal	186	2.35	94	33.60	7.10	35.40	
AV	4.876G	34.39	54.00	-19.61	29.08	3	Horizontal	186	2.35	94	33.60	7.10	35.39	
PK	7.32592G	51.73	74.00	-22.27	41.90	3	Horizontal	287	2.01	94	36.95	8.45	35.57	
AV	7.33052G	38.52	54.00	-15.48	28.68	3	Horizontal	287	2.01	94	36.96	8.46	35.58	

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

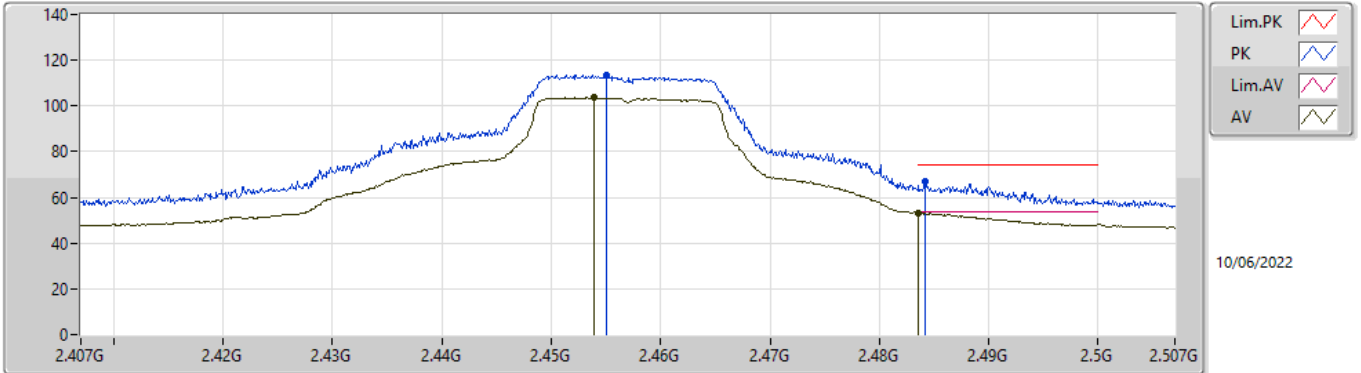


EUT Y_1TX
SET 86
86
1.84

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	2.4618G	109.62	Inf	-Inf	76.84	3	Vertical	10	2.95	86	28.35	4.43	-	
AV	2.4634G	100.04	Inf	-Inf	67.26	3	Vertical	10	2.95	86	28.35	4.43	-	
PK	2.4839G	65.03	74.00	-8.97	32.15	3	Vertical	10	2.95	86	28.44	4.44	-	
AV	2.4835G	52.16	54.00	-1.84	19.29	3	Vertical	10	2.95	86	28.43	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2457MHz_TX

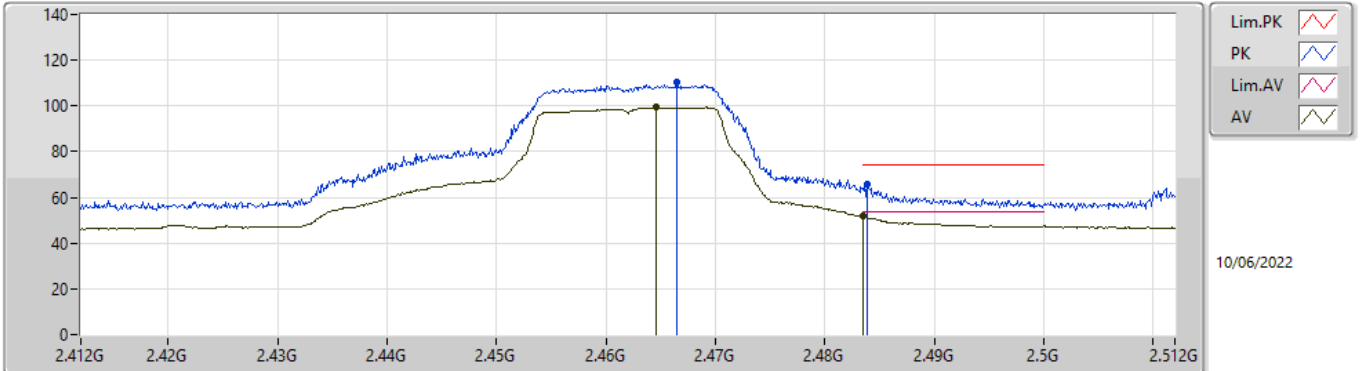


EUT_Y_1TX
SET 86
80\108\94\87\84\85\86
5.22\ -32.95\ -6.46\ -0.39\ 2.29\ 1.21\ 0.73

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	2.455G	113.56	Inf	-Inf	80.81	3	Horizontal	47	2.40	86	28.32	4.43	-	
AV	2.4539G	103.63	Inf	-Inf	70.88	3	Horizontal	47	2.40	86	28.32	4.43	-	
PK	2.4842G	67.26	74.00	-6.74	34.38	3	Horizontal	47	2.40	86	28.44	4.44	-	
AV	2.4836G	53.27	54.00	-0.73	20.40	3	Horizontal	47	2.40	86	28.43	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

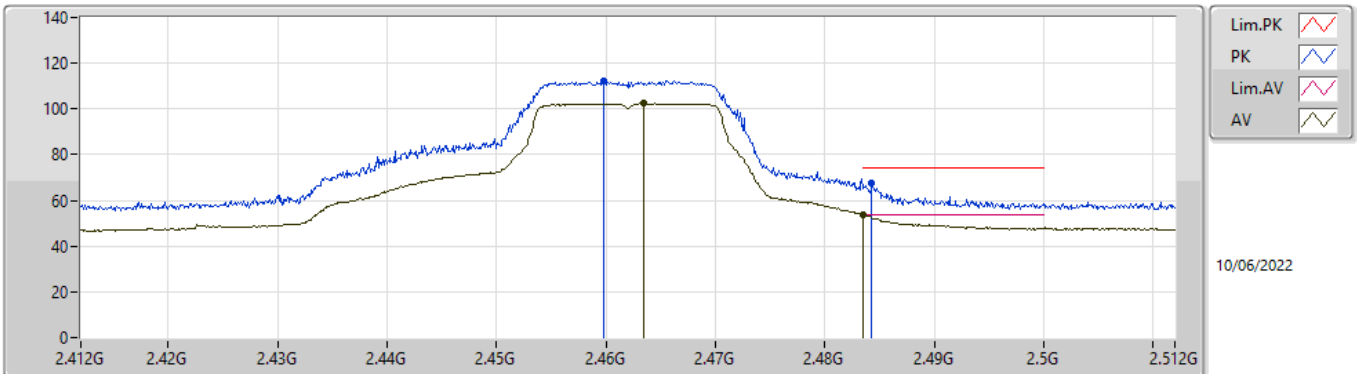


EUTY_1TX
SET 80
80
2.34

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	2.4665G	110.50	Inf	-Inf	77.70	3	Vertical	12	2.94	80	28.37	4.43	-	
AV	2.4646G	99.36	Inf	-Inf	66.57	3	Vertical	12	2.94	80	28.36	4.43	-	
PK	2.4839G	65.59	74.00	-8.41	32.71	3	Vertical	12	2.94	80	28.44	4.44	-	
AV	2.4835G	51.66	54.00	-2.34	18.79	3	Vertical	12	2.94	80	28.43	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

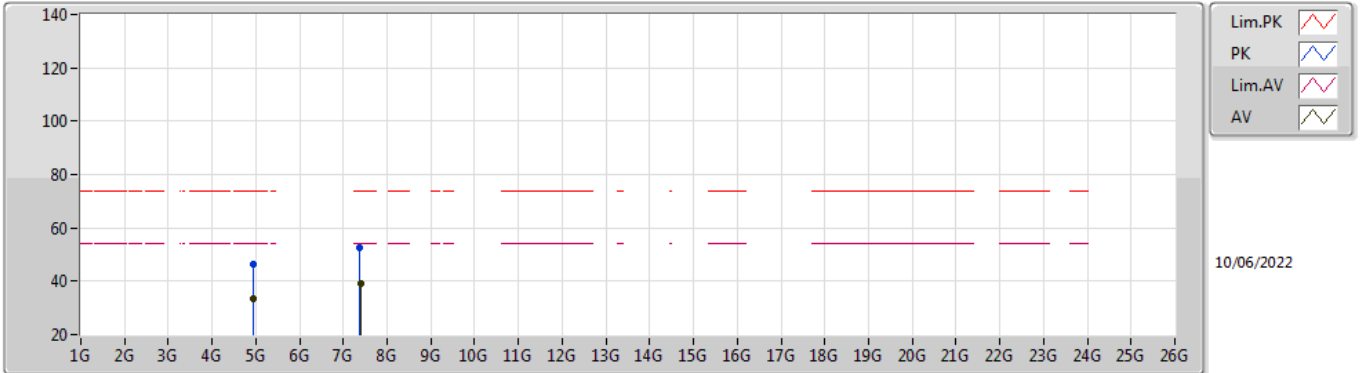


EUTY_1TX
SET 80
80
0.35

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	2.4598G	112.39	Inf	-Inf	79.62	3	Horizontal	52	2.57	80	28.34	4.43	-	
AV	2.4635G	102.48	Inf	-Inf	69.70	3	Horizontal	52	2.57	80	28.35	4.43	-	
PK	2.4843G	67.46	74.00	-6.54	34.58	3	Horizontal	52	2.57	80	28.44	4.44	-	
AV	2.4835G	53.65	54.00	-0.35	20.78	3	Horizontal	52	2.57	80	28.43	4.44	-	

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

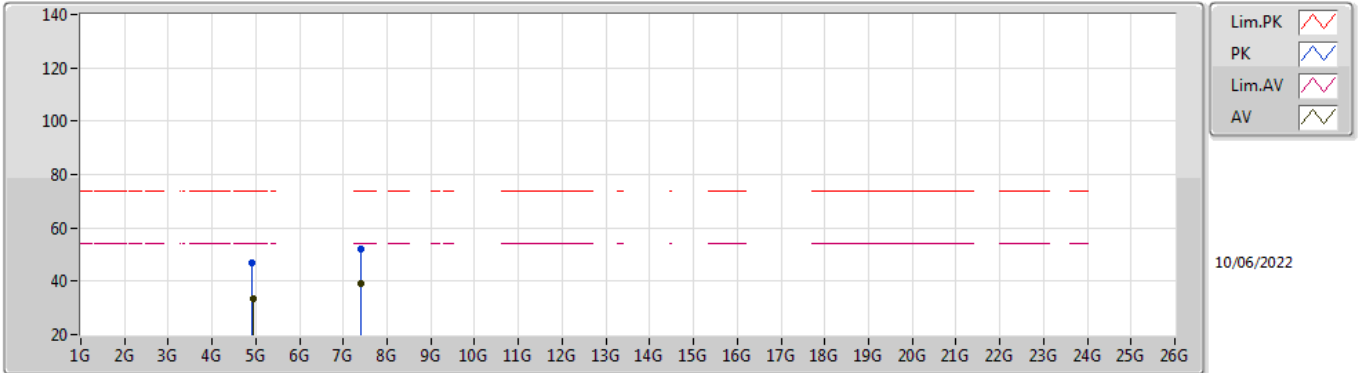


EUT Z_1TX
SET 80

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	4.928G	46.53	74.00	-27.47	41.04	3	Vertical	138	1.08	80	33.76	7.10	35.37	
AV	4.93832G	33.56	54.00	-20.44	28.04	3	Vertical	138	1.08	80	33.78	7.10	35.36	
PK	7.37196G	52.54	74.00	-21.46	42.59	3	Vertical	12	1.74	80	37.00	8.54	35.59	
AV	7.39944G	39.23	54.00	-14.77	29.22	3	Vertical	12	1.74	80	37.00	8.60	35.59	

802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX

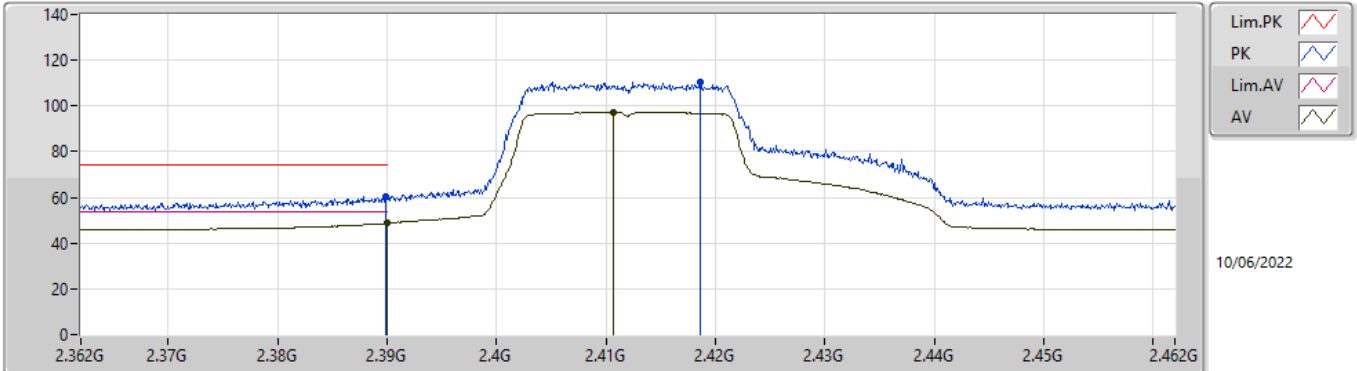


EUT Z_1TX
SET 80

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	4.90776G	47.02	74.00	-26.98	41.58	3	Horizontal	99	1.80	80	33.72	7.10	35.38	
AV	4.93928G	33.60	54.00	-20.40	28.08	3	Horizontal	99	1.80	80	33.78	7.10	35.36	
PK	7.39468G	52.24	74.00	-21.76	42.24	3	Horizontal	1	2.01	80	37.00	8.59	35.59	
AV	7.39208G	39.05	54.00	-14.95	29.06	3	Horizontal	1	2.01	80	37.00	8.58	35.59	

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

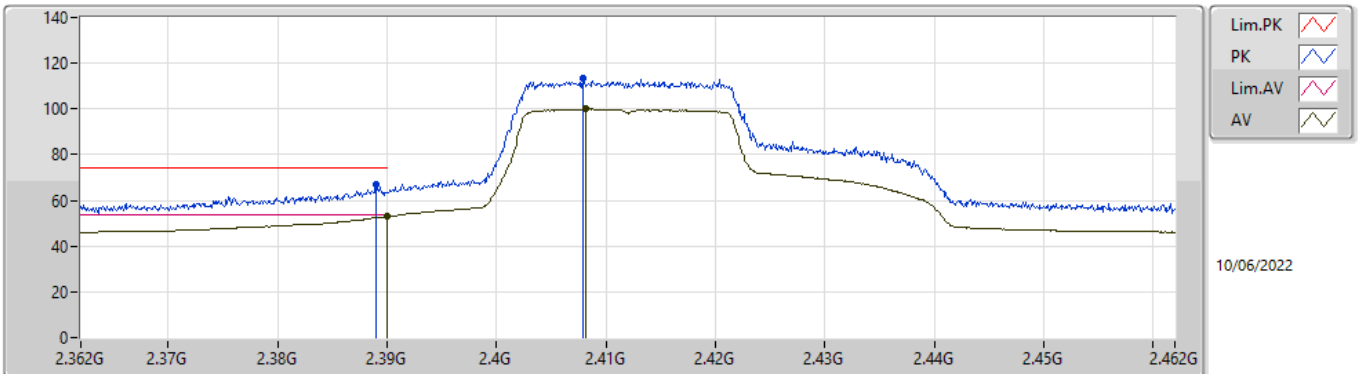


EUT Y_1TX
SET 80
80
5.26

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	2.3899G	60.61	74.00	-13.39	27.96	3	Vertical	9	2.95	80	28.26	4.39	-	
AV	2.39G	48.74	54.00	-5.26	16.09	3	Vertical	9	2.95	80	28.26	4.39	-	
PK	2.4186G	110.57	Inf	-Inf	77.86	3	Vertical	9	2.95	80	28.30	4.41	-	
AV	2.4107G	97.21	Inf	-Inf	64.50	3	Vertical	9	2.95	80	28.30	4.41	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

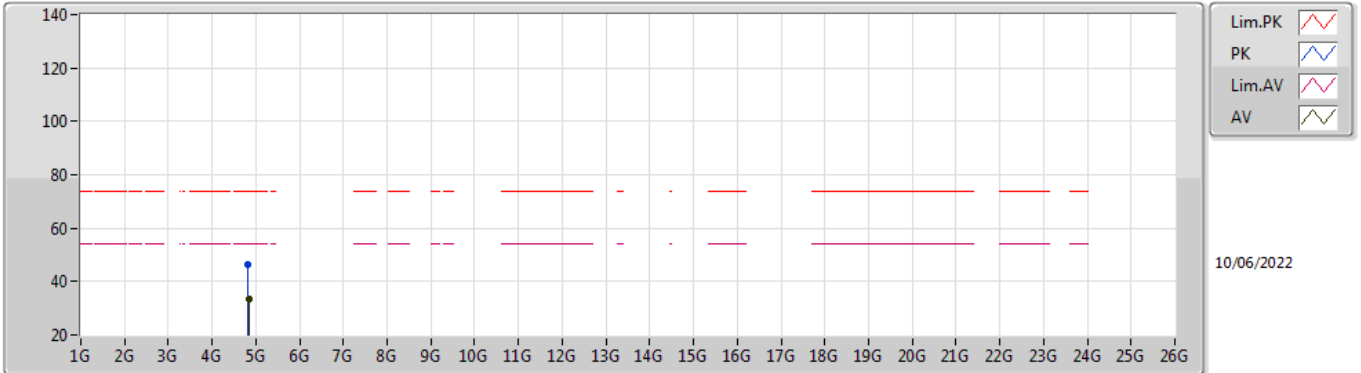


EUT Y_1TX
SET 80
82\78\80\81\80
-0.55\2.67\0.97\0.28\0.96

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	66.92	74.00	-7.08	34.27	3	Horizontal	56	1.09	80	28.26	4.39	-	
AV	2.39G	53.04	54.00	-0.96	20.39	3	Horizontal	56	1.09	80	28.26	4.39	-	
PK	2.4079G	113.54	Inf	-Inf	80.84	3	Horizontal	56	1.09	80	28.30	4.40	-	
AV	2.4082G	99.97	Inf	-Inf	67.27	3	Horizontal	56	1.09	80	28.30	4.40	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

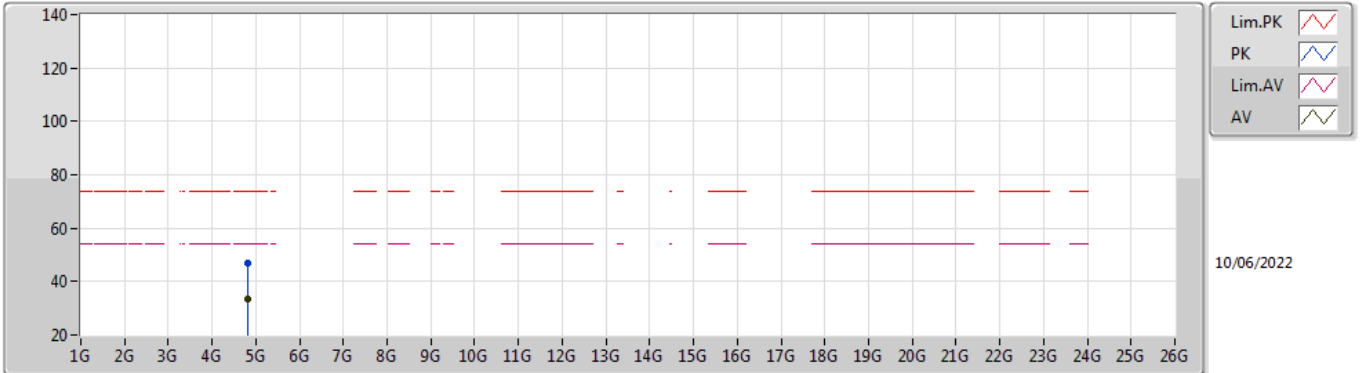


EUT Z_1TX
SET 80

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	4.81184G	46.37	74.00	-27.63	41.43	3	Vertical	193	1.80	80	33.27	7.10	35.43
AV	4.839G	33.57	54.00	-20.43	28.45	3	Vertical	193	1.80	80	33.43	7.10	35.41

802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX

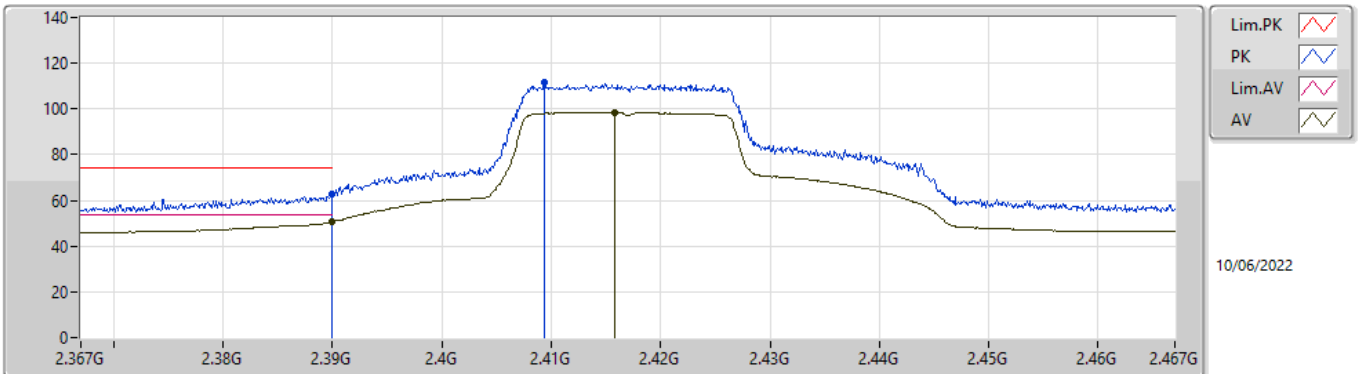


EUT Z_1TX
SET 80

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	4.81288G	47.02	74.00	-26.98	42.07	3	Horizontal	358	2.90	80	33.28	7.10	35.43	
AV	4.82236G	33.55	54.00	-20.45	28.54	3	Horizontal	358	2.90	80	33.33	7.10	35.42	

802.11ax HEW20_Nss1,(MCS0)_1TX

2417MHz_TX

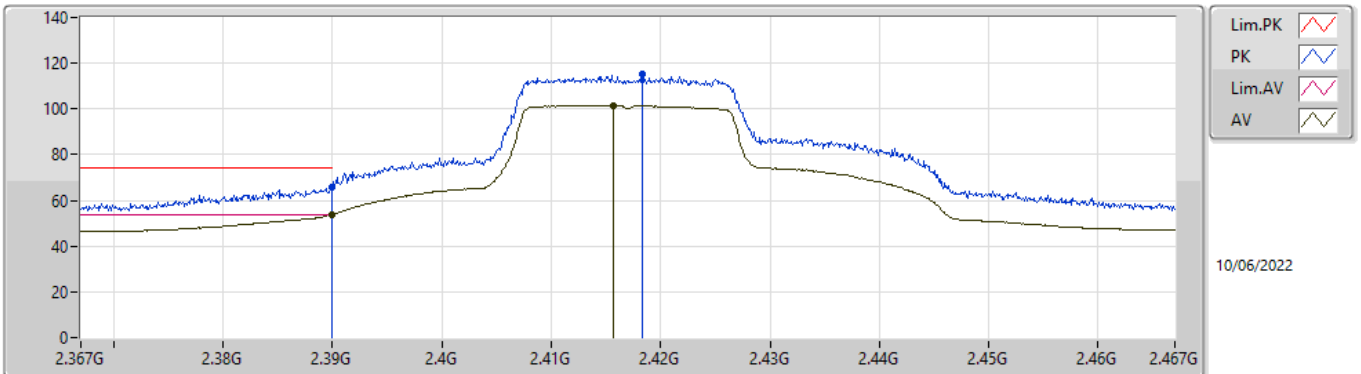


EUT Y_1TX
SET 85
85
3.35

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	62.61	74.00	-11.39	29.96	3	Vertical	4	2.95	85	28.26	4.39	-	
AV	2.39G	50.65	54.00	-3.35	18.00	3	Vertical	4	2.95	85	28.26	4.39	-	
PK	2.4094G	111.56	Inf	-Inf	78.86	3	Vertical	4	2.95	85	28.30	4.40	-	
AV	2.4158G	98.52	Inf	-Inf	65.81	3	Vertical	4	2.95	85	28.30	4.41	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2417MHz_TX

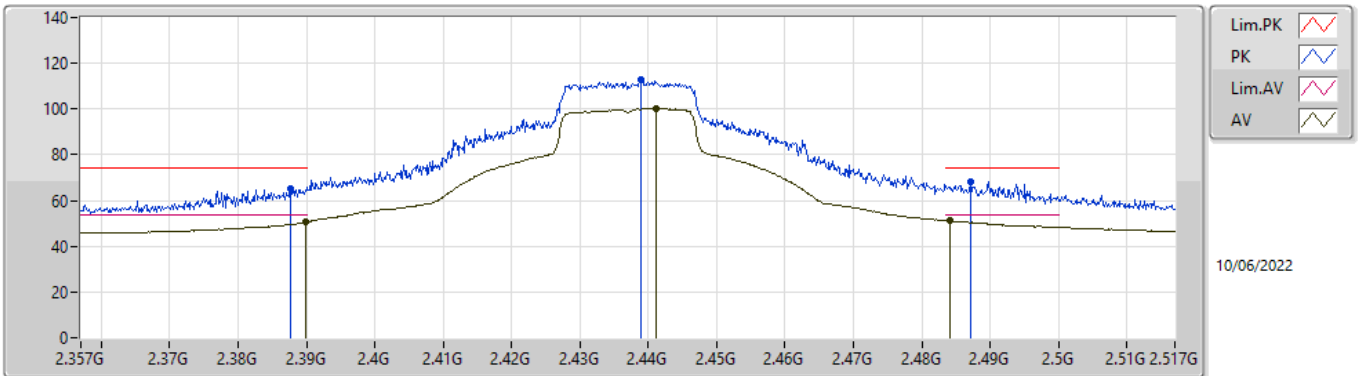


EUT_Y_1TX
SET 85
84\88\86\85
1.57\ -2.12\ -0.62\ 0.09

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	2.3899G	66.02	74.00	-7.98	33.37	3	Horizontal	51	2.41	85	28.26	4.39	-	
AV	2.39G	53.91	54.00	-0.09	21.26	3	Horizontal	51	2.41	85	28.26	4.39	-	
PK	2.4183G	115.29	Inf	-Inf	82.58	3	Horizontal	51	2.41	85	28.30	4.41	-	
AV	2.4157G	101.55	Inf	-Inf	68.84	3	Horizontal	51	2.41	85	28.30	4.41	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

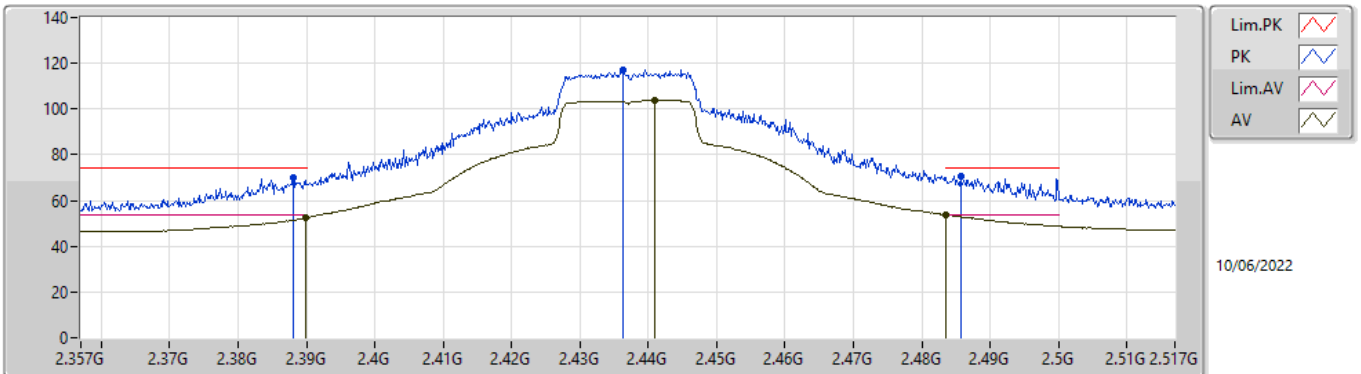


EUT_Y_1TX
SET 92
92
2.86

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	2.38772G	65.15	74.00	-8.85	32.51	3	Vertical	16	2.70	92	28.25	4.39	-
AV	2.38996G	50.71	54.00	-3.29	18.06	3	Vertical	16	2.70	92	28.26	4.39	-
PK	2.43892G	112.57	Inf	-Inf	79.85	3	Vertical	16	2.70	92	28.30	4.42	-
AV	2.44116G	100.10	Inf	-Inf	67.38	3	Vertical	16	2.70	92	28.30	4.42	-
PK	2.48708G	68.24	74.00	-5.76	35.35	3	Vertical	16	2.70	92	28.45	4.44	-
AV	2.4842G	51.14	54.00	-2.86	18.26	3	Vertical	16	2.70	92	28.44	4.44	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

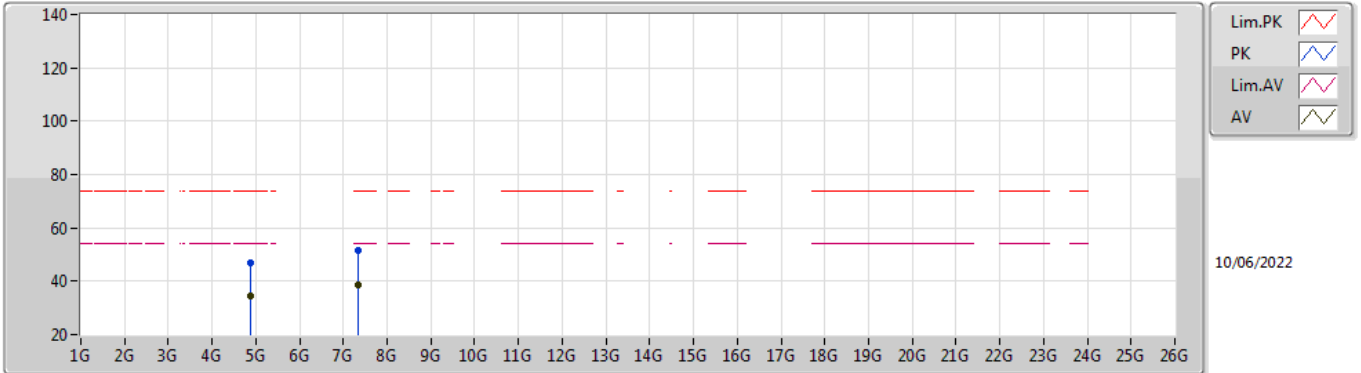


EUT Y_1TX
SET 92
94\90\92
-0.89\1.72\0.18

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	2.38804G	69.89	74.00	-4.11	37.25	3	Horizontal	49	2.63	92	28.25	4.39	-
AV	2.38996G	52.38	54.00	-1.62	19.73	3	Horizontal	49	2.63	92	28.26	4.39	-
PK	2.4362G	116.95	Inf	-Inf	84.23	3	Horizontal	49	2.63	92	28.30	4.42	-
AV	2.441G	103.80	Inf	-Inf	71.08	3	Horizontal	49	2.63	92	28.30	4.42	-
PK	2.48564G	70.47	74.00	-3.53	37.59	3	Horizontal	49	2.63	92	28.44	4.44	-
AV	2.4835G	53.82	54.00	-0.18	20.95	3	Horizontal	49	2.63	92	28.43	4.44	-

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

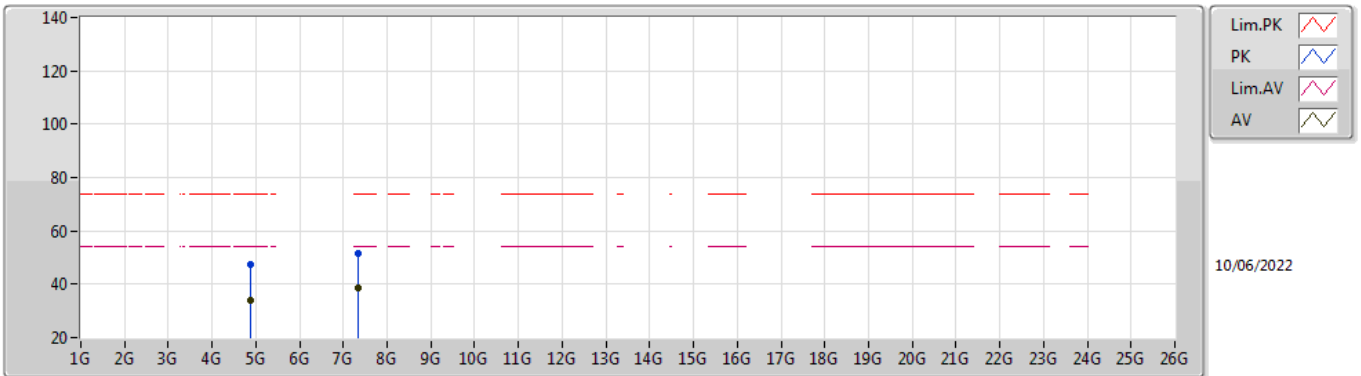


EUT_Z_1TX
SET 92

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	4.87304G	46.92	74.00	-27.08	41.63	3	Vertical	235	2.15	92	33.59	7.10	35.40	
AV	4.87352G	34.40	54.00	-19.60	29.11	3	Vertical	235	2.15	92	33.59	7.10	35.40	
PK	7.32928G	51.49	74.00	-22.51	41.65	3	Vertical	293	2.65	92	36.96	8.46	35.58	
AV	7.32788G	38.69	54.00	-15.31	28.85	3	Vertical	293	2.65	92	36.96	8.46	35.58	

802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX

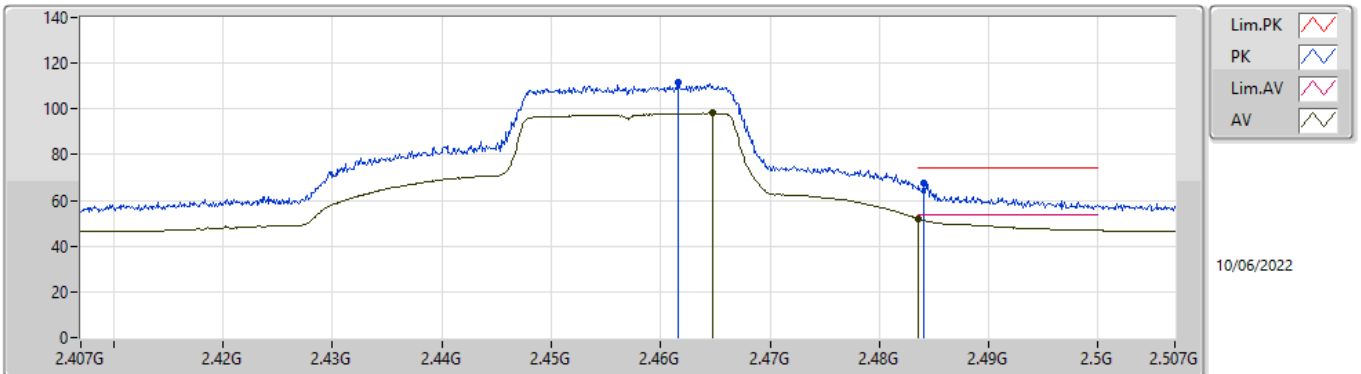


EUT_Z_1TX
SET 92

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	4.88832G	47.62	74.00	-26.38	42.26	3	Horizontal	358	2.95	92	33.65	7.10	35.39	
AV	4.8738G	34.19	54.00	-19.81	28.89	3	Horizontal	358	2.95	92	33.60	7.10	35.40	
PK	7.32756G	51.37	74.00	-22.63	41.53	3	Horizontal	298	1.80	92	36.96	8.46	35.58	
AV	7.32956G	38.56	54.00	-15.44	28.72	3	Horizontal	298	1.80	92	36.96	8.46	35.58	

802.11ax HEW20_Nss1,(MCS0)_1TX

2457MHz_TX

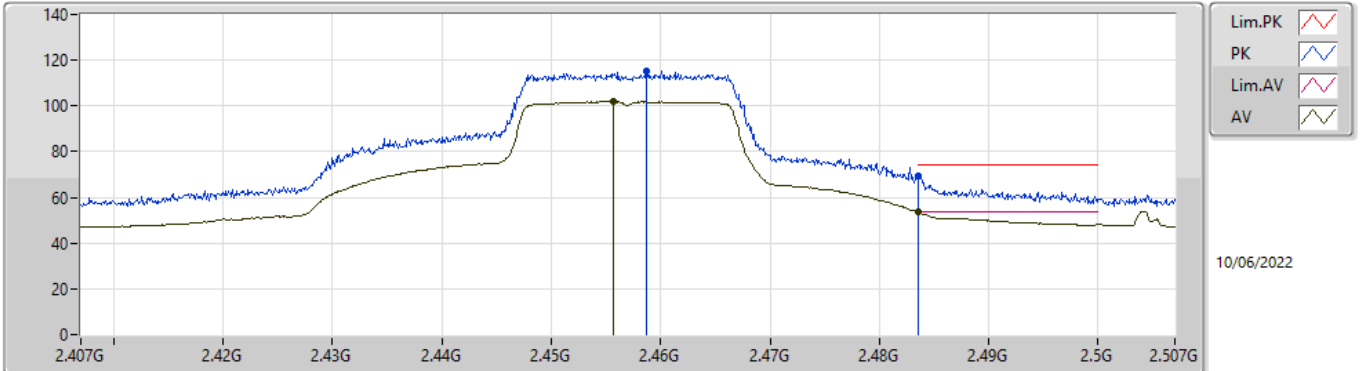


EUT_Y_1TX
SET 85
85
1.94

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	2.4616G	111.47	Inf	-Inf	78.69	3	Vertical	11	2.95	85	28.35	4.43	-	
AV	2.4648G	98.17	Inf	-Inf	65.38	3	Vertical	11	2.95	85	28.36	4.43	-	
PK	2.484G	67.58	74.00	-6.42	34.70	3	Vertical	11	2.95	85	28.44	4.44	-	
AV	2.4835G	52.06	54.00	-1.94	19.19	3	Vertical	11	2.95	85	28.43	4.44	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2457MHz_TX

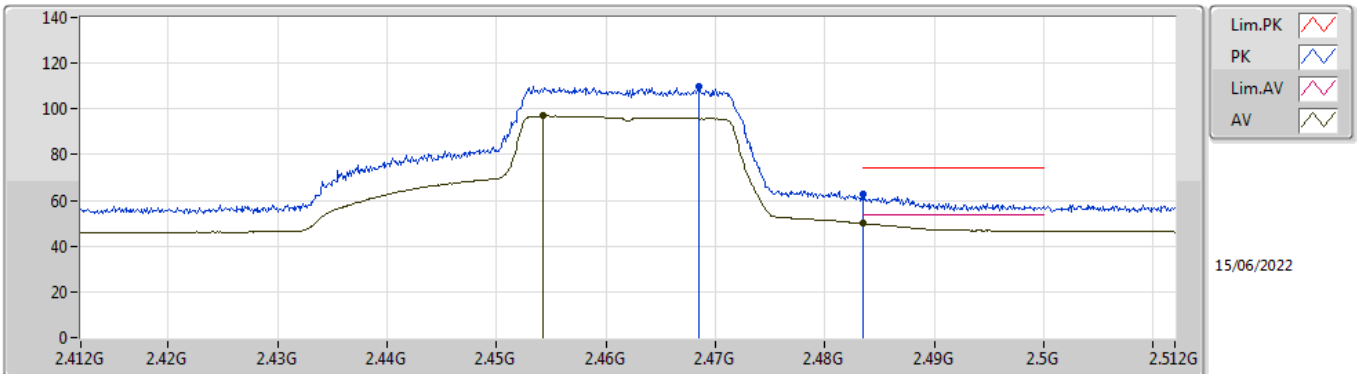


EUT_Y_1TX
SET 85
86\82\84\85
-1.29\4.05\1.02\0.47

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	2.4587G	115.28	Inf	-Inf	82.52	3	Horizontal	53	2.55	85	28.33	4.43	-	
AV	2.4557G	101.90	Inf	-Inf	69.15	3	Horizontal	53	2.55	85	28.32	4.43	-	
PK	2.4836G	69.31	74.00	-4.69	36.44	3	Horizontal	53	2.55	85	28.43	4.44	-	
AV	2.4835G	53.53	54.00	-0.47	20.66	3	Horizontal	53	2.55	85	28.43	4.44	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

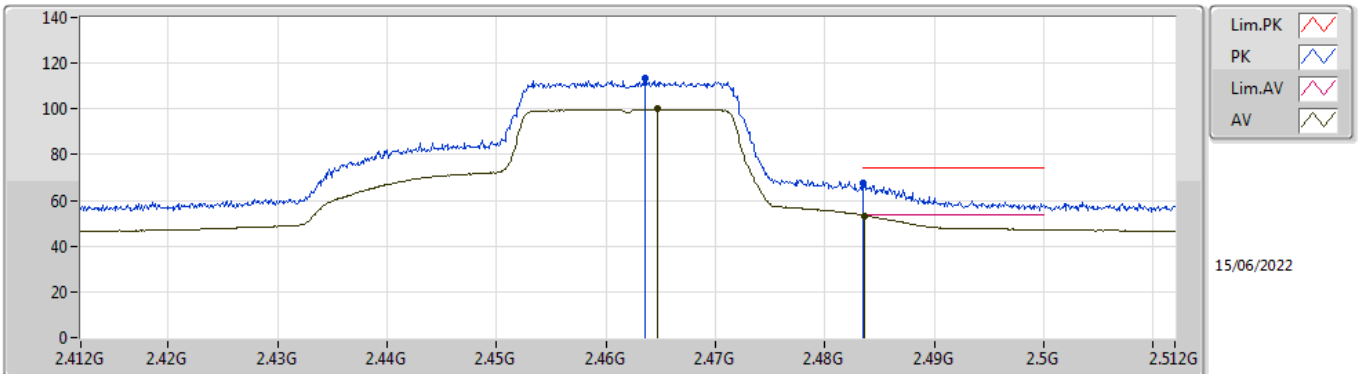


EUT V_1TX
SET 79
79
4.17

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	2.4685G	110.00	Inf	-Inf	77.20	3	Vertical	11	2.60	79	28.37	4.43	-	
AV	2.4543G	96.91	Inf	-Inf	64.16	3	Vertical	11	2.60	79	28.32	4.43	-	
PK	2.4835G	62.60	74.00	-11.40	29.73	3	Vertical	11	2.60	79	28.43	4.44	-	
AV	2.4835G	49.83	54.00	-4.17	16.96	3	Vertical	11	2.60	79	28.43	4.44	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

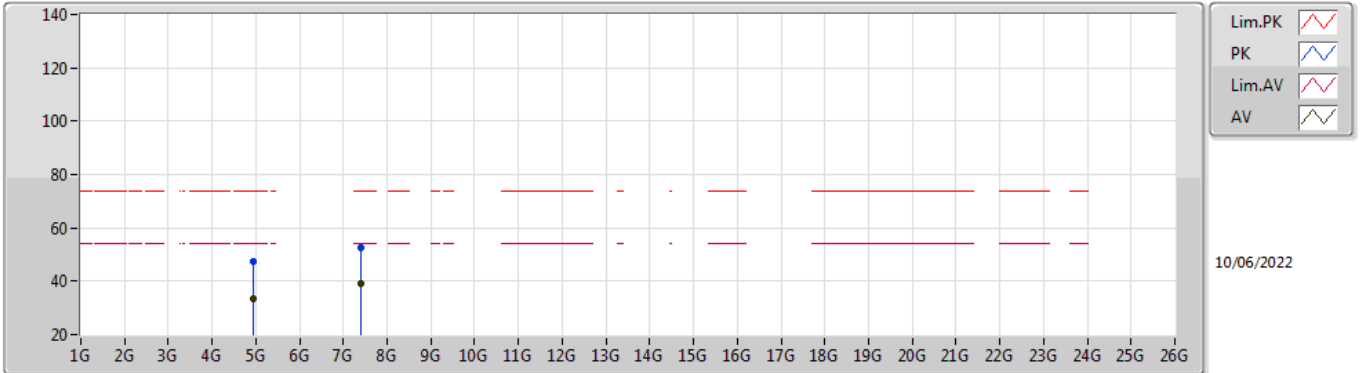


EUT_V_1TX
SET 79
79\84\82\81\80\79
0.65\ -6.00\ -2.61\ -1.43\ -0.03\ 0.60

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	2.4636G	113.33	Inf	-Inf	80.55	3	Horizontal	45	2.68	79	28.35	4.43	-	
AV	2.4647G	99.88	Inf	-Inf	67.09	3	Horizontal	45	2.68	79	28.36	4.43	-	
PK	2.4835G	67.42	74.00	-6.58	34.55	3	Horizontal	45	2.68	79	28.43	4.44	-	
AV	2.4836G	53.40	54.00	-0.60	20.53	3	Horizontal	45	2.68	79	28.43	4.44	-	

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX

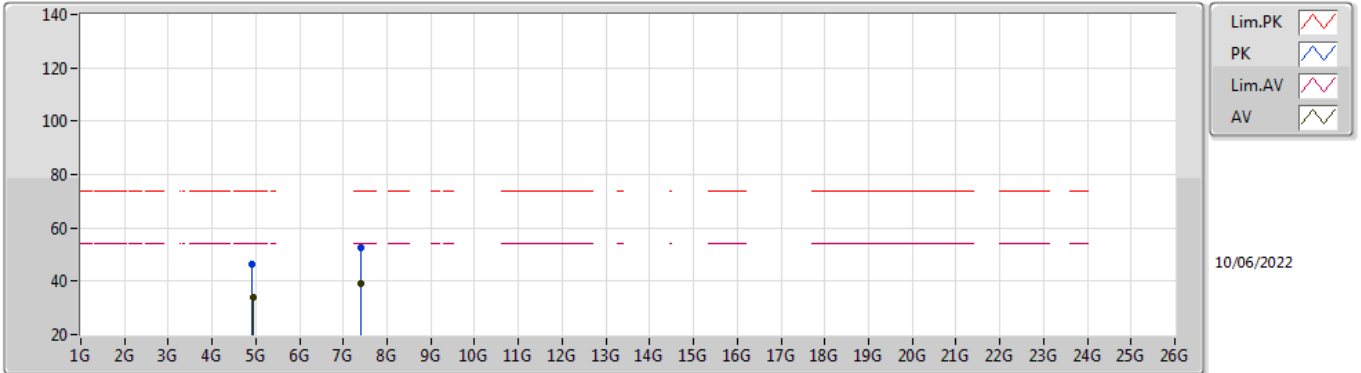


EUT Z_1TX
SET 79

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	4.93692G	47.20	74.00	-26.80	41.69	3	Vertical	297	1.80	79	33.77	7.10	35.36	
AV	4.9432G	33.66	54.00	-20.34	28.13	3	Vertical	297	1.80	79	33.79	7.10	35.36	
PK	7.40144G	52.41	74.00	-21.59	42.40	3	Vertical	160	1.80	79	37.00	8.60	35.59	
AV	7.39952G	39.18	54.00	-14.82	29.17	3	Vertical	160	1.80	79	37.00	8.60	35.59	

802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX



EUT_Z_1TX
SET 79

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	4.91876G	46.29	74.00	-27.71	40.82	3	Horizontal	358	2.92	79	33.74	7.10	35.37	
AV	4.93552G	33.77	54.00	-20.23	28.26	3	Horizontal	358	2.92	79	33.77	7.10	35.36	
PK	7.39648G	52.57	74.00	-21.43	42.57	3	Horizontal	118	1.80	79	37.00	8.59	35.59	
AV	7.40552G	39.26	54.00	-14.74	29.27	3	Horizontal	118	1.80	79	36.99	8.60	35.60	

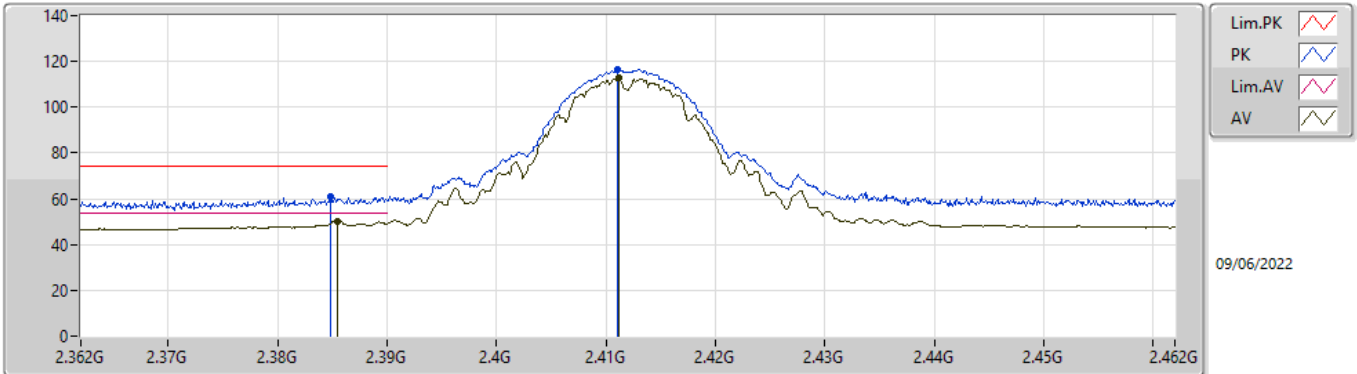


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss2,(MCS0)_2TX	Pass	AV	2.38964G	53.94	54.00	-0.06	3	Horizontal	307	2.55	89

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

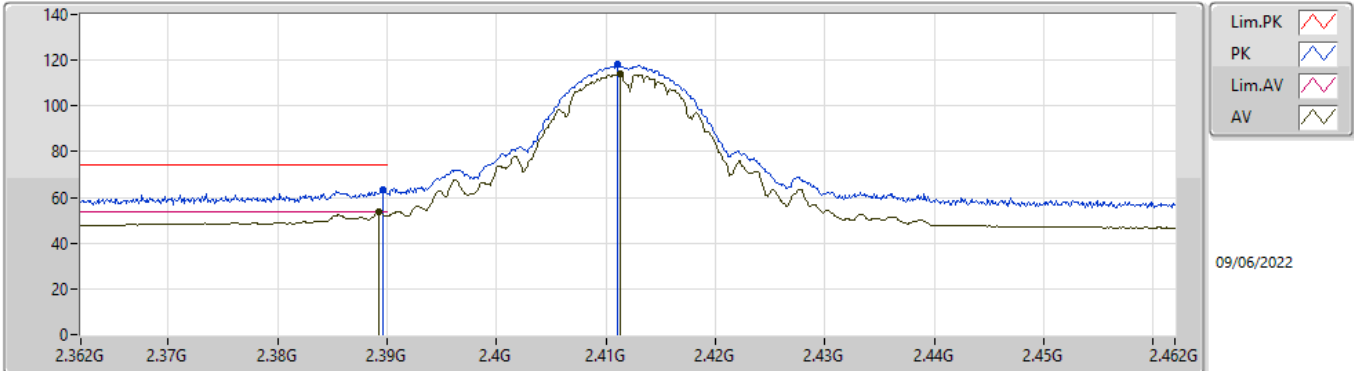


EUT X_2TX
SET 89
89
3.77

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	61.00	74.00	-13.00	28.38	3	Vertical	8	2.09	89	28.24	4.38	-
AV	2.3855G	50.23	54.00	-3.77	17.60	3	Vertical	8	2.09	89	28.24	4.39	-
PK	2.4111G	116.61	Inf	-Inf	83.90	3	Vertical	8	2.09	89	28.30	4.41	-
AV	2.4112G	112.80	Inf	-Inf	80.09	3	Vertical	8	2.09	89	28.30	4.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

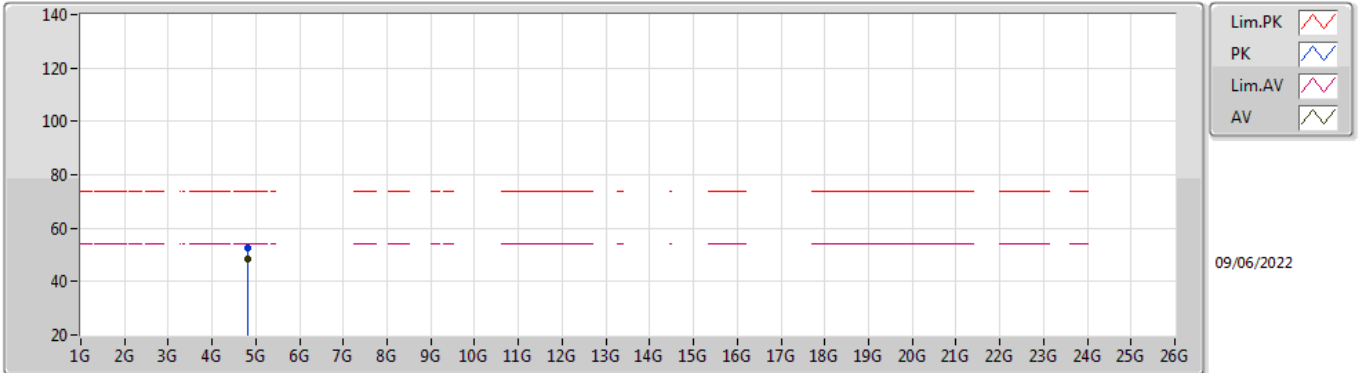


EUT_X_2TX
SET 89
88\108\98\93\91\90\89
1.68\ -36.97\ -8.48\ -2.78\ -1.70\ -1.06\ 0.57

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	2.3896G	63.64	74.00	-10.36	30.99	3	Horizontal	46	2.44	89	28.26	4.39	-	
AV	2.3892G	53.43	54.00	-0.57	20.78	3	Horizontal	46	2.44	89	28.26	4.39	-	
PK	2.4111G	117.99	Inf	-Inf	85.28	3	Horizontal	46	2.44	89	28.30	4.41	-	
AV	2.4113G	113.79	Inf	-Inf	81.08	3	Horizontal	46	2.44	89	28.30	4.41	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX



EUT X_2TX
SET 89

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	4.824G	52.44	74.00	-21.56	47.42	3	Vertical	8	1.59	89	33.34	7.10	35.42
AV	4.82404G	48.50	54.00	-5.50	43.48	3	Vertical	8	1.59	89	33.34	7.10	35.42