

FCC Radio Test Report

FCC ID : 2AHBN-AP24
Equipment : 802.11ax WiFi6E 2+2+2 Indoor AP
Brand Name : Juniper
Model Name : AP24
Applicant : Juniper Networks, Inc.
1133 Innovation Way, Sunnyvale, CA 94089, USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way, Sunnyvale, CA 94089, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 25, 2022, and testing was started from Dec. 01, 2022 and completed on Apr. 18, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FR2N2441AC	01	Initial issue of report	Apr. 17, 2023
FR2N2441AC	02	Update Co-location (This report is the latest version replacing for the report issued on Apr. 17, 2023)	Apr. 26, 2023



Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

The 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.

Reviewed by: Ryan Hsiao

Report Producer: Ann Hou



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax(HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40)	2422-2452	3-9 [7]

Non-Beamforming_Radio 1

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Non-Beamforming_Radio 2

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX
2.4-2.4835GHz	802.11ax HEW40	40	1TX
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Beamforming_Radio 1

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Remark
1	Juniper	X51209900486_1	PIFA	I-PEX	Radio 1_2.4G+Radio 1_6G
2	Juniper	X51209900486_2	PIFA	I-PEX	Radio 0_5G+ Radio 4_BT/Thread/Zigbee
3	Juniper	X51209900486_3	PIFA	I-PEX	Radio 1_2.4G+Radio 0_5G
4	Juniper	X51209900486_4	PIFA	I-PEX	Radio 2_2.4G+Radio 1_6G
5	Juniper	X51209900486_5	PIFA	I-PEX	Radio 2_2.4G+ Radio 2_5G+Radio 2_6G

Ant.	Gain (dBi)						
	Radio 0	Radio 1		Radio 2			Radio 4
	5G	2.4G	6G	2.4G	5G	6G	BT/Thread/Zigbee
1	-	3.04	5.11	-	-	-	-
2	3.66	-	-	-	-	-	2.21
3	3	2.14	-	-	-	-	-
4	-	-	4.55	2.5	-	-	-
5	-	-	-	2.1	3.34	3.16	-

Composite Gain (dBi)									
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	6.175G	6.475G	6.695G	6.995G
DG [1SS] Ant.1 & Ant.3	3.46	-	-	-	-	-	-	-	-
DG [1SS] Ant.4 & Ant.5	3.71	-	-	-	-	-	-	-	-
DG [1SS] Ant.2 & Ant.3	-	4.12	3.86	4.67	5.22	-	-	-	-
DG [1SS] Ant.1 & Ant.4	-	-	-	-	-	4.39	3.31	4.45	5.16

Note 1: The EUT has five antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (1TX/1RX) (Radio 2)

Ant. 5 could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX) (Radio 1)

Ant. 1 and Ant. 3 could transmit/receive simultaneously.

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

Ant. 4 and Ant. 5 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX) (Radio 2)

Ant. 5 could transmit/receive.

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX) (Radio 0)

Ant. 2 and Ant. 3 could transmit/receive simultaneously.

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) (Radio 4)

Ant. 2 could transmit/receive.

For 6GHz function:

For IEEE 802.11 a/ax mode (1TX/1RX) (Radio 2)

Ant. 5 could transmit/receive.

For IEEE 802.11 a/ax mode (2TX/2RX) (Radio 1)

Ant. 1 and Ant. 4 could transmit/receive simultaneously.

For Thread function:

For Thread mode (1TX/1RX) (Radio 4)

Ant. 2 could transmit/receive.

For Zigbee function:

For Zigbee mode (1TX/1RX) (Radio 4)

Ant. 2 could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From PoE		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
☐	Other:		



1.1.4 Mode Test Duty Cycle

Non-Beamforming_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_2TX	0.957	0.19	12.417m	100
802.11g_Nss1,(6Mbps)_2TX	0.957	0.19	2.064m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.979	0.09	1.489m	1k
802.11ax HEW40_Nss1,(MCS0)_2TX	0.963	0.16	780.313u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Non-Beamforming_Radio 2

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_1TX	0.957	0.19	12.417m	100
802.11g_Nss1,(6Mbps)_1TX	0.953	0.21	2.065m	1k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.98	0.09	1.489m	10
802.11ax HEW40_Nss1,(MCS0)_1TX	0.962	0.17	781.875u	3k
802.11b_Nss1,(1Mbps)_2TX	0.957	0.19	12.417m	100
802.11g_Nss1,(6Mbps)_2TX	0.95	0.22	2.065m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.98	0.09	1.49m	10
802.11ax HEW40_Nss1,(MCS0)_2TX	0.962	0.17	781.875u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Beamforming_Radio 1

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.979	0.09	1.489m	1k
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.963	0.16	780.313u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 662911 D03 v01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne	21.2~22.7°C / 52~56%	04/Jan/2023
RF Conducted	TH01-HY	Johnny	20.9~22.3°C / 51~55%	01/Dec/2022~21/Feb/2023
Radiated(Co-location) Mode 7~14	03CH03-HY	Edward	20.5~20.8°C / 58~59%	18/Apr/2023
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego	20.2~21.3°C / 59~64%	01/Dec/2022~14/Dec/2022
Radiated(Co-location) Mode 1~6, Mode 15~18	03CH09-HY	Henry	20.1~22.4°C / 58~68%	06/Jan/2023~18/Apr/2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	AccessMTool_REL_3_2_1_3
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Non-Beamforming_Radio 1

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	80
2437MHz	80
2462MHz	80
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	74
2417MHz	77
2437MHz	80
2457MHz	77
2462MHz	68
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	69
2417MHz	73
2437MHz	80
2457MHz	73
2462MHz	60
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	66
2427MHz	69
2437MHz	71
2447MHz	68
2452MHz	64

**Non-Beamforming_Radio 2**

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	80
2437MHz	80
2462MHz	80
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	70
2417MHz	74
2437MHz	80
2457MHz	80
2462MHz	72
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	62
2417MHz	75
2437MHz	80
2457MHz	77
2462MHz	69
802.11ax HEW40_Nss1,(MCS0)_1TX	-
2422MHz	59
2427MHz	60
2437MHz	65
2452MHz	65
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	80
2437MHz	80
2462MHz	80
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	68
2417MHz	70
2437MHz	80
2457MHz	74
2462MHz	71
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	59
2417MHz	72
2437MHz	80



Mode	Power Setting
2457MHz	73
2462MHz	59
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	60
2427MHz	63
2437MHz	64
2452MHz	64

Beamforming_Radio 1

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	69
2417MHz	73
2437MHz	80
2457MHz	73
2462MHz	60
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	66
2427MHz	69
2437MHz	71
2447MHz	68
2452MHz	64

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	CTX
1	PoE mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Radio 1_2.4GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
2	Radio 1_2.4GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
3	Radio 1_2.4GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
4	Radio 1_6GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
5	Radio 1_6GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
6	Radio 1_6GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + Bluetooth
7	Radio 1_2.4GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + Zigbee
8	Radio 1_2.4GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + Zigbee
9	Radio 1_2.4GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + Zigbee
10	Radio 1_6GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + Zigbee
11	Radio 1_6GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + Zigbee
12	Radio 1_6GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + Zigbee
13	Radio 1_2.4GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + thread
14	Radio 1_2.4GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + thread
15	Radio 1_2.4GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + thread
16	Radio 1_6GHz WLAN + Radio 2_2.4GHz WLAN + Radio 0_5GHz WLAN + thread
17	Radio 1_6GHz WLAN + Radio 2_5GHz WLAN + Radio 0_5GHz WLAN + thread
18	Radio 1_6GHz WLAN + Radio 2_6GHz WLAN + Radio 0_5GHz WLAN + thread
Refer to Sporton Test Report No.: FA2N2441 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	



2.3 Accessories

Accessories				
Bracket	Brand Name	JUNIPER	Model Name	APBR-U

Reminder: Regarding to more detail and other information, please refer to user manual.

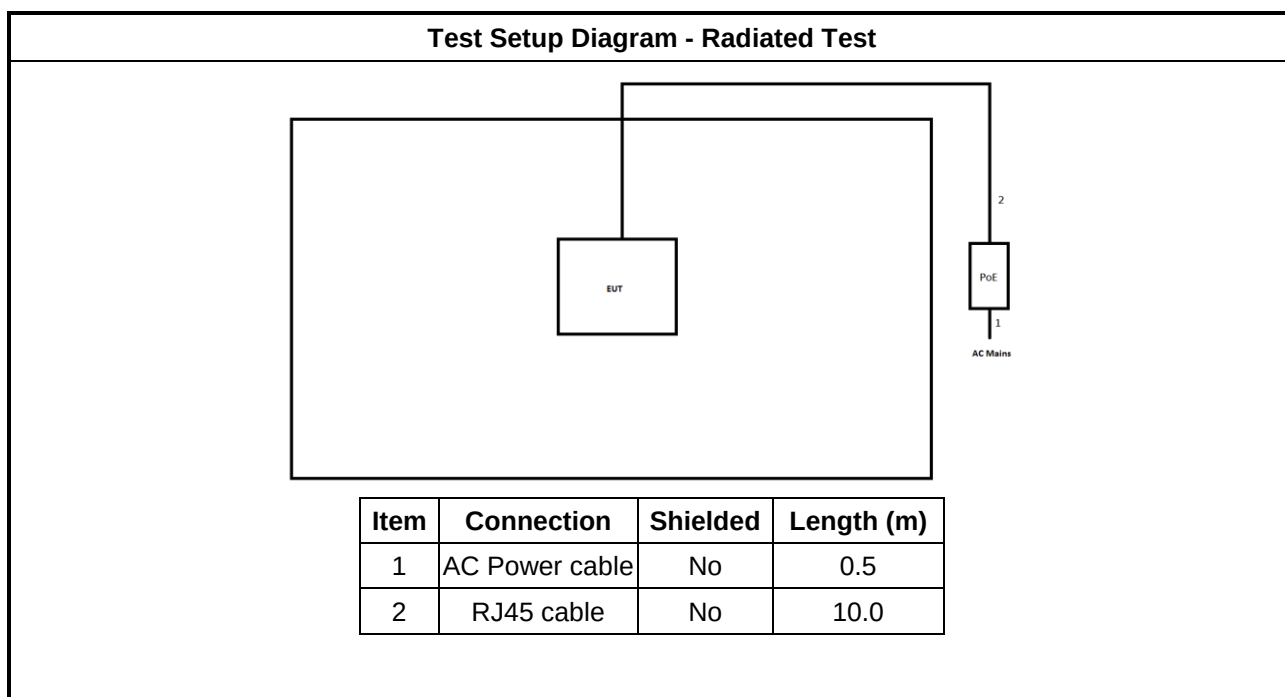
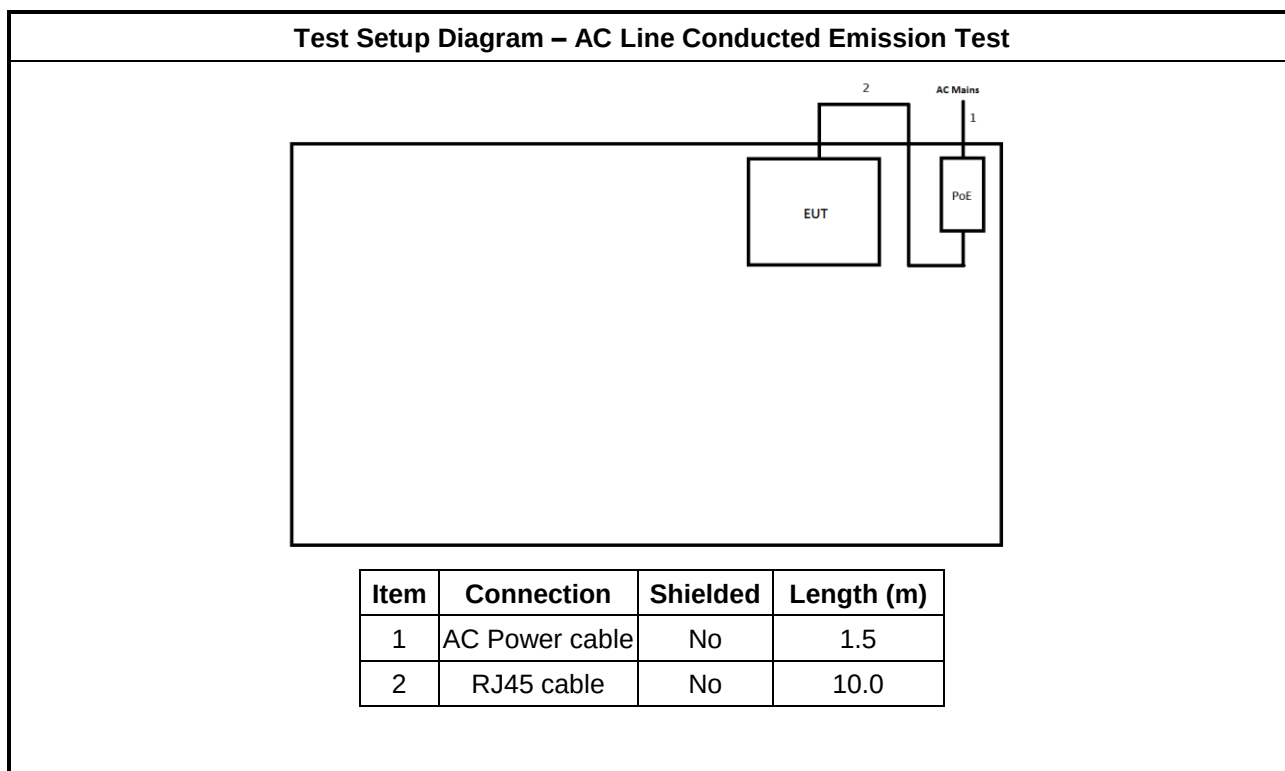
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	Power Sync	TPCMRN0018	-	-
3	PoE	GRT	GRT-480125A	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 cable	Power sync	CAT-6E-10	-	-
2	AC Power cable	I-SHENG	AC CORD 600mm	-	-
3	PoE	GRT	GRT-480125A	-	Remote

2.5 Test Setup Diagram





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

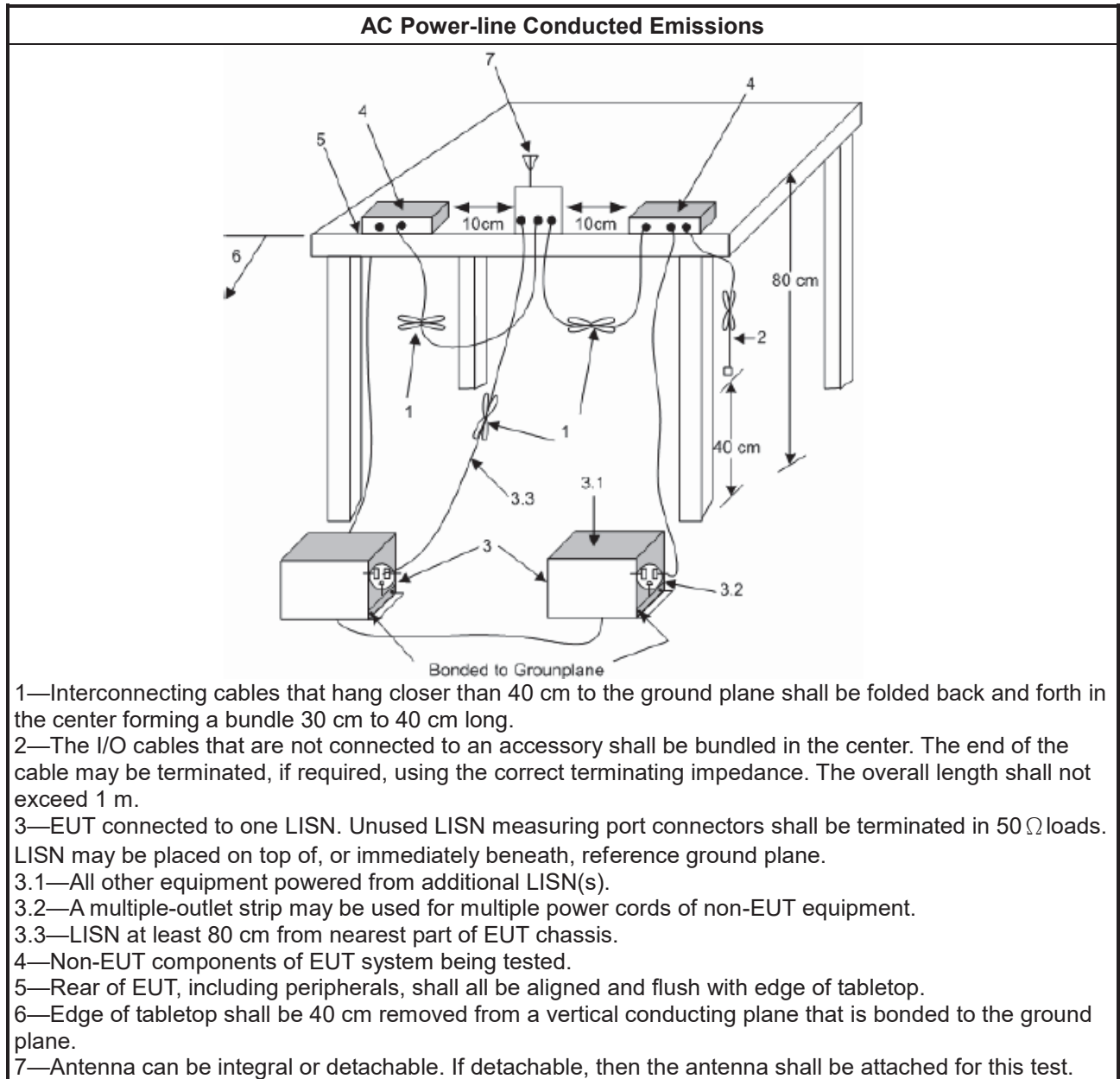
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



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.

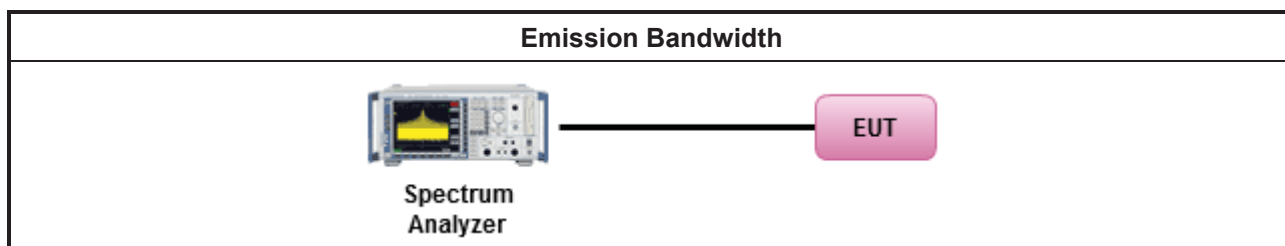
3.2.2 Measuring Instruments

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 KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 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
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.	

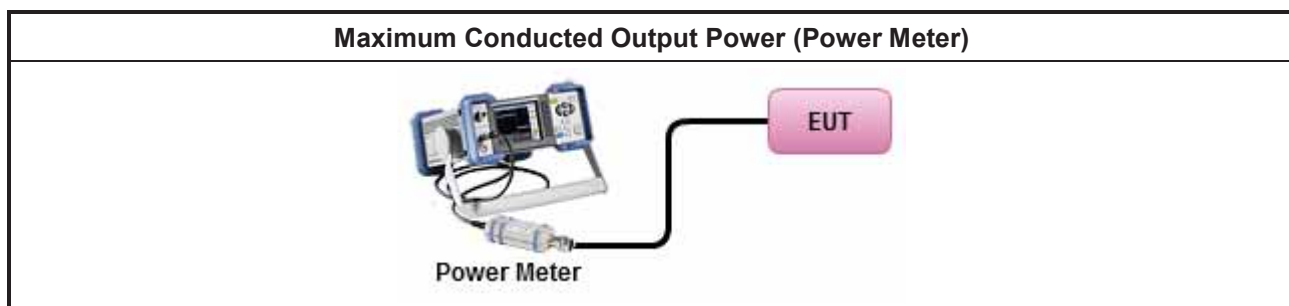
3.3.2 Measuring Instruments

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 KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as 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

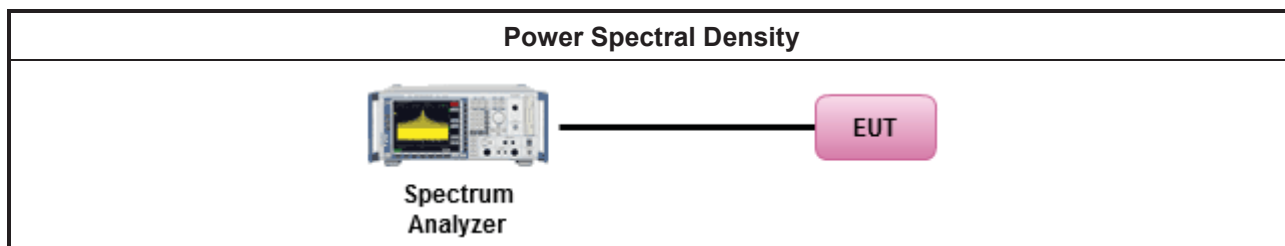
3.4.2 Measuring Instruments

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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as 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.

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 (dB)
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 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 level.	

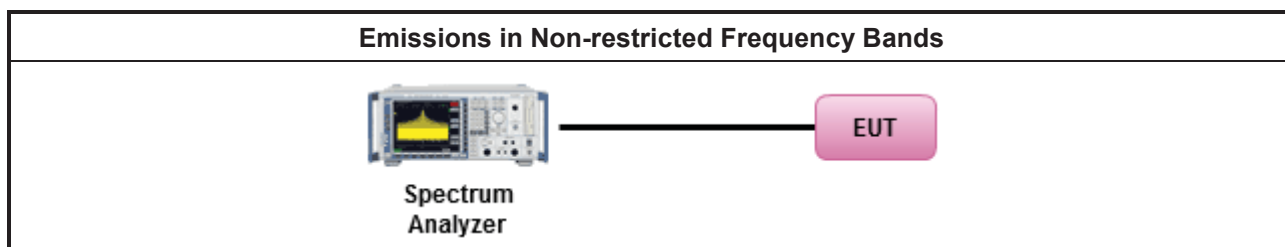
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency 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

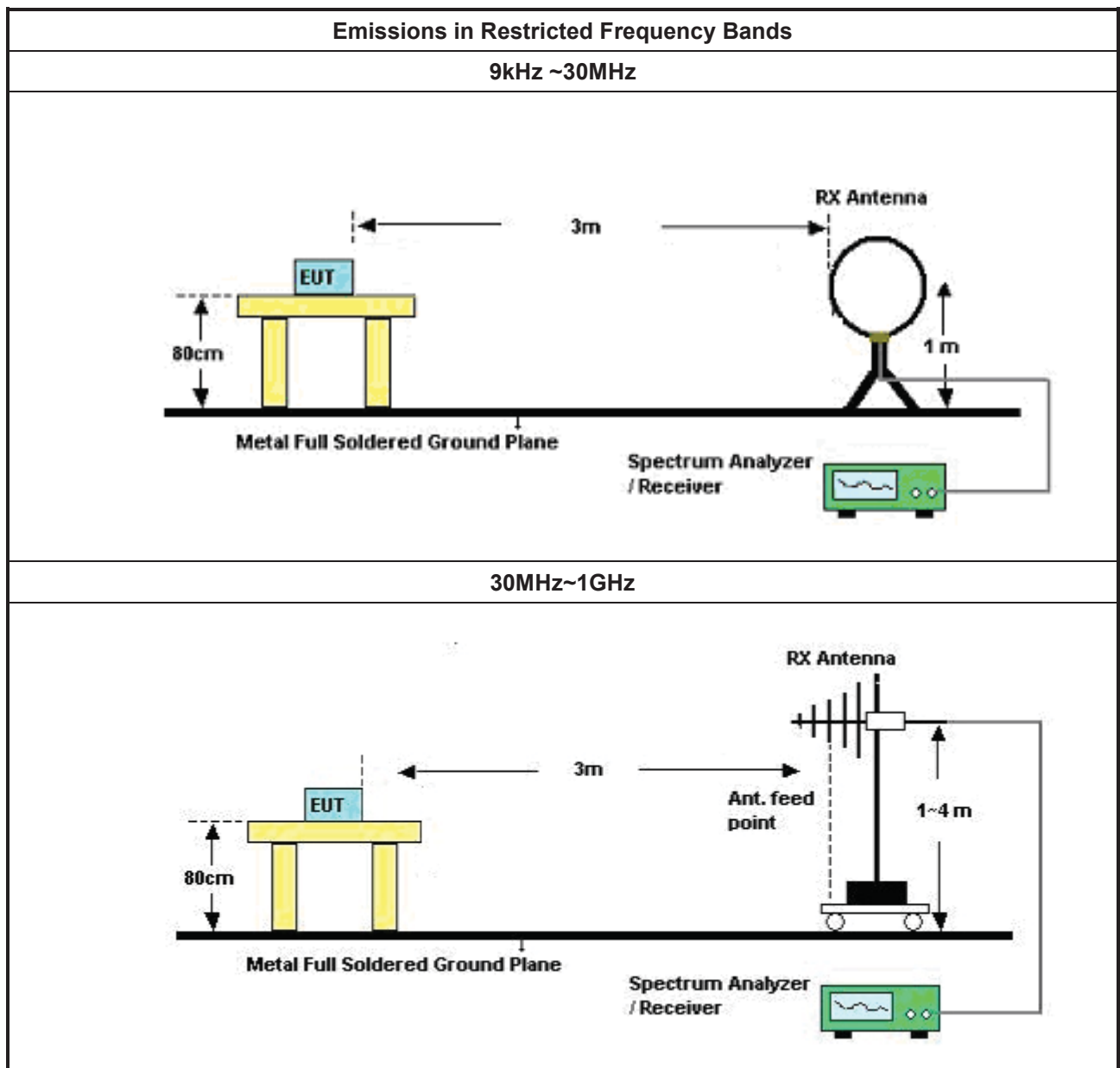
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

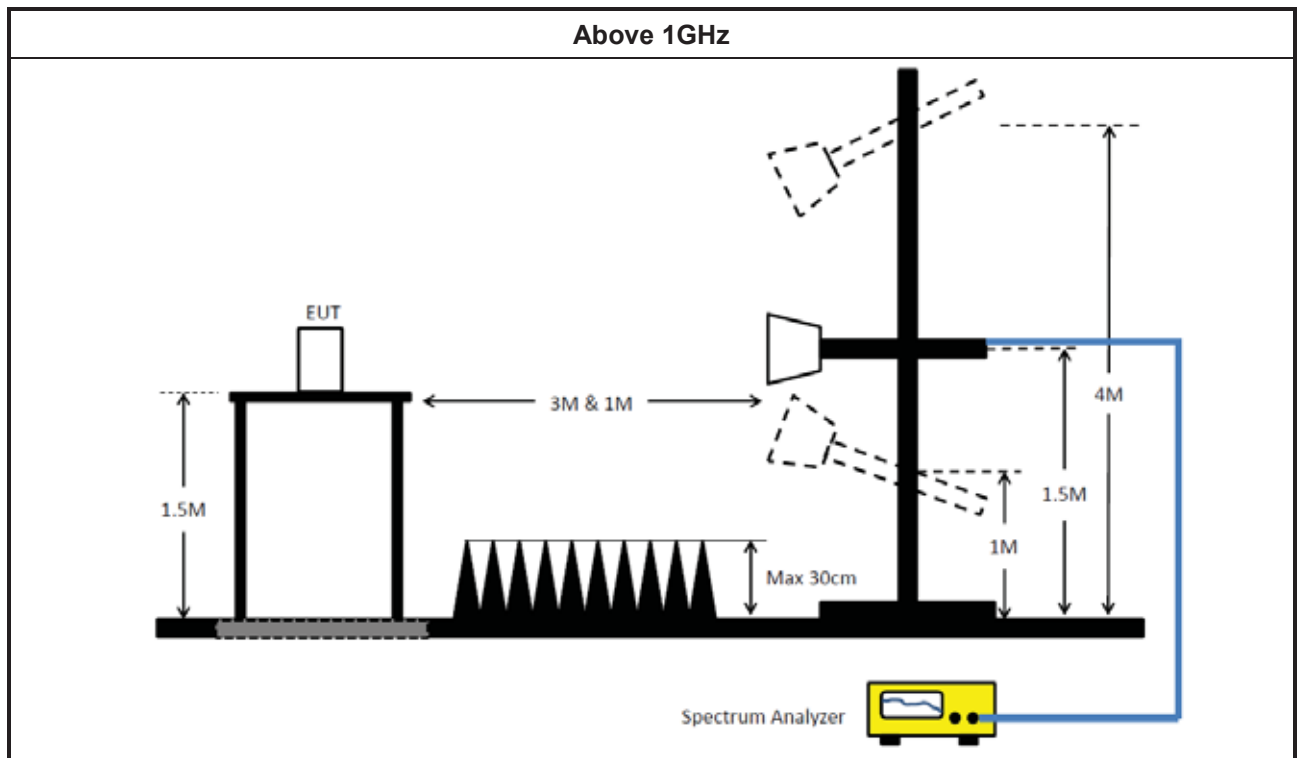
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_DTS	Sporton	V5.11	N/A	N/A	N/A	N/A



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	09/Dec/2022	08/Dec/2023
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	02/Nov/2022	01/Nov/2023
SENSE-15247-DTS	Sporton	NA	5.10.8.8	NA	NA	NA

Instrument for Radiated Test (Co-location_ 03CH03-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	02/Aug/2022	01/Aug/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2022	25/Oct/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF CABLE 5+6m	HUBER+SUHNE R	SUOFLEX 104	03CH03-cable-01	1GHz~40GHz	27/Jul/2022	26/Jul/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	14/Jul/2022	13/Jul/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE-15407	Sporton	5.10.8.7	NA	NA	NA	NA

**Instrument for Radiated Test (Co-location_03CH09-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	16/Mar/2022	15/Mar/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	30/Dec/2022	29/Dec/2023
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	17/Aug/2022	16/Aug/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15407	Sporton	NA	5.10.8.7	NA	NA	NA



Conducted Emissions at Powerline_Radio 1

Appendix A.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	333.299k	42.46	59.37	-16.91	Line



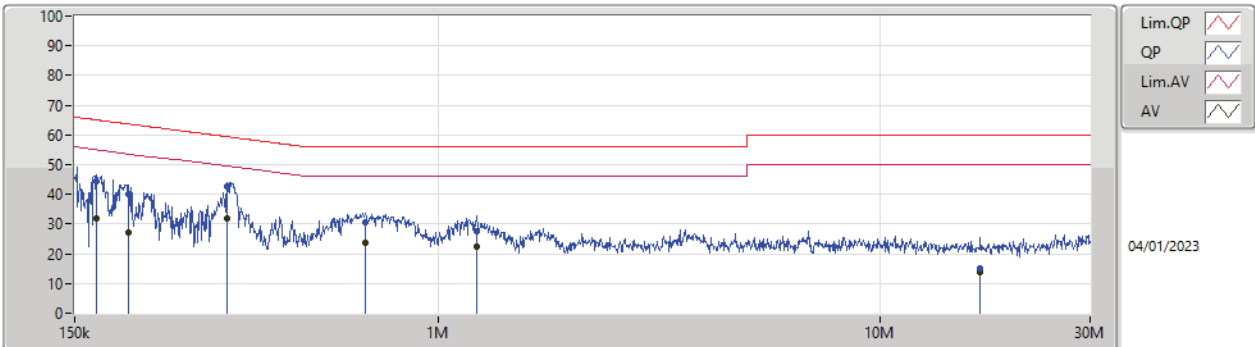
Conducted Emissions at Powerline_Radio 1

Appendix A.1

Result

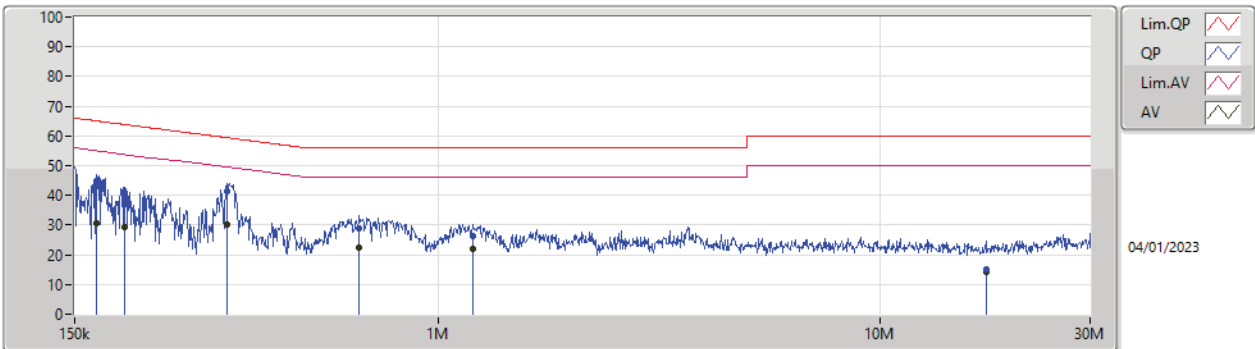
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	168.41k	44.59	65.04	-20.45	Line	-
Mode 1	Pass	AV	168.41k	31.73	55.04	-23.31	Line	-
Mode 1	Pass	QP	199.152k	40.25	63.65	-23.40	Line	-
Mode 1	Pass	AV	199.152k	27.06	53.65	-26.59	Line	-
Mode 1	Pass	QP	333.299k	42.46	59.37	-16.91	Line	-
Mode 1	Pass	AV	333.299k	31.81	49.37	-17.56	Line	-
Mode 1	Pass	QP	683.758k	30.42	56.00	-25.58	Line	-
Mode 1	Pass	AV	683.758k	23.63	46.00	-22.37	Line	-
Mode 1	Pass	QP	1.22M	27.52	56.00	-28.48	Line	-
Mode 1	Pass	AV	1.22M	22.42	46.00	-23.58	Line	-
Mode 1	Pass	QP	16.936M	14.89	60.00	-45.11	Line	-
Mode 1	Pass	AV	16.936M	13.95	50.00	-36.05	Line	-
Mode 1	Pass	QP	167.739k	44.86	65.06	-20.20	Neutral	-
Mode 1	Pass	AV	167.739k	30.69	55.06	-24.37	Neutral	-
Mode 1	Pass	QP	195.216k	41.10	63.80	-22.70	Neutral	-
Mode 1	Pass	AV	195.216k	29.35	53.80	-24.45	Neutral	-
Mode 1	Pass	QP	331.971k	41.32	59.40	-18.08	Neutral	-
Mode 1	Pass	AV	331.971k	29.99	49.40	-19.41	Neutral	-
Mode 1	Pass	QP	662.266k	28.91	56.00	-27.09	Neutral	-
Mode 1	Pass	AV	662.266k	22.47	46.00	-23.53	Neutral	-
Mode 1	Pass	QP	1.2M	26.12	56.00	-29.88	Neutral	-
Mode 1	Pass	AV	1.2M	21.92	46.00	-24.08	Neutral	-
Mode 1	Pass	QP	17.416M	14.99	60.00	-45.01	Neutral	-
Mode 1	Pass	AV	17.416M	14.01	50.00	-35.99	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	168.41k	44.59	65.04	-20.45	19.65	Line	-	24.94	9.69	0.03	9.93			
AV	168.41k	31.73	55.04	-23.31	19.65	Line	-	12.08	9.69	0.03	9.93			
QP	199.152k	40.25	63.65	-23.40	19.65	Line	-	20.60	9.69	0.03	9.93			
AV	199.152k	27.06	53.65	-26.59	19.65	Line	-	7.41	9.69	0.03	9.93			
QP	333.299k	42.46	59.37	-16.91	19.67	Line	-	22.79	9.68	0.04	9.95			
AV	333.299k	31.81	49.37	-17.56	19.67	Line	-	12.14	9.68	0.04	9.95			
QP	683.758k	30.42	56.00	-25.58	19.68	Line	-	10.74	9.68	0.05	9.95			
AV	683.758k	23.63	46.00	-22.37	19.68	Line	-	3.95	9.68	0.05	9.95			
QP	1.22M	27.52	56.00	-28.48	19.69	Line	-	7.83	9.69	0.06	9.94			
AV	1.22M	22.42	46.00	-23.58	19.69	Line	-	2.73	9.69	0.06	9.94			
QP	16.936M	14.89	60.00	-45.11	20.01	Line	-	-5.12	9.79	0.25	9.97			
AV	16.936M	13.95	50.00	-36.05	20.01	Line	-	-6.06	9.79	0.25	9.97			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.739k	44.86	65.06	-20.20	19.69	Neutral	-	25.17	9.73	0.03	9.93			
AV	167.739k	30.69	55.06	-24.37	19.69	Neutral	-	11.00	9.73	0.03	9.93			
QP	195.216k	41.10	63.80	-22.70	19.68	Neutral	-	21.42	9.72	0.03	9.93			
AV	195.216k	29.35	53.80	-24.45	19.68	Neutral	-	9.67	9.72	0.03	9.93			
QP	331.971k	41.32	59.40	-18.08	19.71	Neutral	-	21.61	9.72	0.04	9.95			
AV	331.971k	29.99	49.40	-19.41	19.71	Neutral	-	10.28	9.72	0.04	9.95			
QP	662.266k	28.91	56.00	-27.09	19.73	Neutral	-	9.18	9.73	0.05	9.95			
AV	662.266k	22.47	46.00	-23.53	19.73	Neutral	-	2.74	9.73	0.05	9.95			
QP	1.2M	26.12	56.00	-29.88	19.73	Neutral	-	6.39	9.73	0.06	9.94			
AV	1.2M	21.92	46.00	-24.08	19.73	Neutral	-	2.19	9.73	0.06	9.94			
QP	17.416M	14.99	60.00	-45.01	20.20	Neutral	-	-5.21	9.97	0.26	9.97			
AV	17.416M	14.01	50.00	-35.99	20.20	Neutral	-	-6.19	9.97	0.26	9.97			



Conducted Emissions at Powerline_Radio 2

Appendix A.2

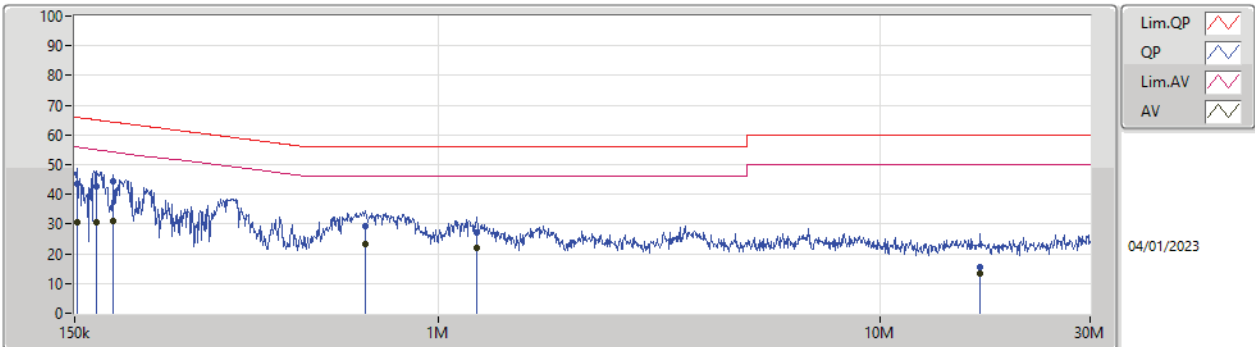
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	331.971k	40.35	59.40	-19.05	Neutral

Result

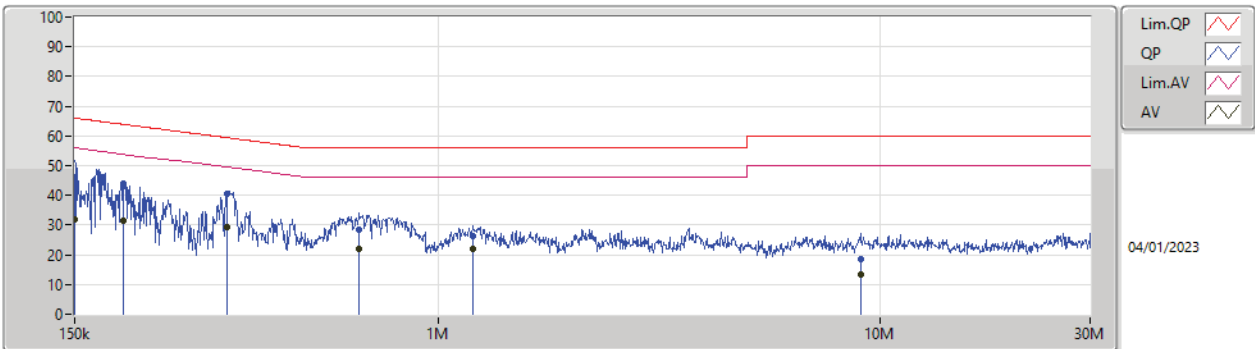
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.807k	43.62	65.90	-22.28	Line	-
Mode 1	Pass	AV	151.807k	30.74	55.90	-25.16	Line	-
Mode 1	Pass	QP	168.41k	42.53	65.04	-22.51	Line	-
Mode 1	Pass	AV	168.41k	30.62	55.04	-24.42	Line	-
Mode 1	Pass	QP	183.87k	44.42	64.30	-19.88	Line	-
Mode 1	Pass	AV	183.87k	31.24	54.30	-23.06	Line	-
Mode 1	Pass	QP	683.758k	29.49	56.00	-26.51	Line	-
Mode 1	Pass	AV	683.758k	23.13	46.00	-22.87	Line	-
Mode 1	Pass	QP	1.22M	27.14	56.00	-28.86	Line	-
Mode 1	Pass	AV	1.22M	22.18	46.00	-23.82	Line	-
Mode 1	Pass	QP	16.936M	15.38	60.00	-44.62	Line	-
Mode 1	Pass	AV	16.936M	13.53	50.00	-36.47	Line	-
Mode 1	Pass	QP	150k	46.18	66.00	-19.82	Neutral	-
Mode 1	Pass	AV	150k	31.72	56.00	-24.28	Neutral	-
Mode 1	Pass	QP	193.664k	44.10	63.88	-19.78	Neutral	-
Mode 1	Pass	AV	193.664k	31.27	53.88	-22.61	Neutral	-
Mode 1	Pass	QP	331.971k	40.35	59.40	-19.05	Neutral	-
Mode 1	Pass	AV	331.971k	29.52	49.40	-19.88	Neutral	-
Mode 1	Pass	QP	662.266k	28.30	56.00	-27.70	Neutral	-
Mode 1	Pass	AV	662.266k	21.87	46.00	-24.13	Neutral	-
Mode 1	Pass	QP	1.2M	26.17	56.00	-29.83	Neutral	-
Mode 1	Pass	AV	1.2M	21.84	46.00	-24.16	Neutral	-
Mode 1	Pass	QP	9.049M	18.75	60.00	-41.25	Neutral	-
Mode 1	Pass	AV	9.049M	13.22	50.00	-36.78	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.807k	43.62	65.90	-22.28	19.65	Line	-	23.97	9.69	0.03	9.93			
AV	151.807k	30.74	55.90	-25.16	19.65	Line	-	11.09	9.69	0.03	9.93			
QP	168.41k	42.53	65.04	-22.51	19.65	Line	-	22.88	9.69	0.03	9.93			
AV	168.41k	30.62	55.04	-24.42	19.65	Line	-	10.97	9.69	0.03	9.93			
QP	183.87k	44.42	64.30	-19.88	19.65	Line	-	24.77	9.69	0.03	9.93			
AV	183.87k	31.24	54.30	-23.06	19.65	Line	-	11.59	9.69	0.03	9.93			
QP	683.758k	29.49	56.00	-26.51	19.68	Line	-	9.81	9.68	0.05	9.95			
AV	683.758k	23.13	46.00	-22.87	19.68	Line	-	3.45	9.68	0.05	9.95			
QP	1.22M	27.14	56.00	-28.86	19.69	Line	-	7.45	9.69	0.06	9.94			
AV	1.22M	22.18	46.00	-23.82	19.69	Line	-	2.49	9.69	0.06	9.94			
QP	16.936M	15.38	60.00	-44.62	20.01	Line	-	-4.63	9.79	0.25	9.97			
AV	16.936M	13.53	50.00	-36.47	20.01	Line	-	-6.48	9.79	0.25	9.97			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	46.18	66.00	-19.82	19.69	Neutral	-	26.49	9.73	0.03	9.93			
AV	150k	31.72	56.00	-24.28	19.69	Neutral	-	12.03	9.73	0.03	9.93			
QP	193.664k	44.10	63.88	-19.78	19.68	Neutral	-	24.42	9.72	0.03	9.93			
AV	193.664k	31.27	53.88	-22.61	19.68	Neutral	-	11.59	9.72	0.03	9.93			
QP	331.971k	40.35	59.40	-19.05	19.71	Neutral	-	20.64	9.72	0.04	9.95			
AV	331.971k	29.52	49.40	-19.88	19.71	Neutral	-	9.81	9.72	0.04	9.95			
QP	662.266k	28.30	56.00	-27.70	19.73	Neutral	-	8.57	9.73	0.05	9.95			
AV	662.266k	21.87	46.00	-24.13	19.73	Neutral	-	2.14	9.73	0.05	9.95			
QP	1.2M	26.17	56.00	-29.83	19.73	Neutral	-	6.44	9.73	0.06	9.94			
AV	1.2M	21.84	46.00	-24.16	19.73	Neutral	-	2.11	9.73	0.06	9.94			
QP	9.049M	18.75	60.00	-41.25	20.01	Neutral	-	-1.26	9.88	0.17	9.96			
AV	9.049M	13.22	50.00	-36.78	20.01	Neutral	-	-6.79	9.88	0.17	9.96			

**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	7.05M	10.375M	10M4G1D	6.55M	10.27M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.844M	16M8D1D	16.325M	16.668M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.975M	19.14M	19M1D1D	18.9M	19.015M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.55M	37.531M	37M5D1D	37.05M	37.431M

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

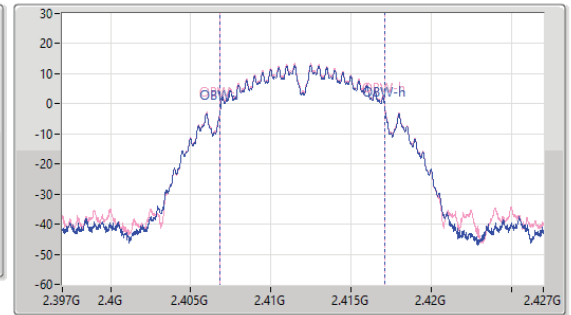
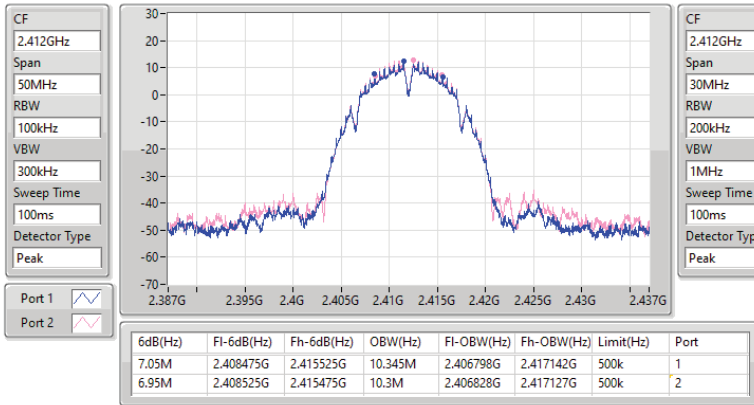
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	10.345M	6.95M	10.3M
2437MHz	Pass	500k	7.05M	10.33M	7.05M	10.375M
2462MHz	Pass	500k	7.025M	10.27M	6.55M	10.33M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.756M	16.325M	16.734M
2437MHz	Pass	500k	16.325M	16.8M	16.325M	16.844M
2462MHz	Pass	500k	16.325M	16.734M	16.35M	16.668M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.015M	18.925M	19.09M
2437MHz	Pass	500k	18.975M	19.065M	18.9M	19.14M
2462MHz	Pass	500k	18.975M	19.015M	18.925M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.5M	37.481M	37.3M	37.431M
2437MHz	Pass	500k	37.05M	37.531M	37.25M	37.531M
2452MHz	Pass	500k	37.55M	37.481M	37.35M	37.531M

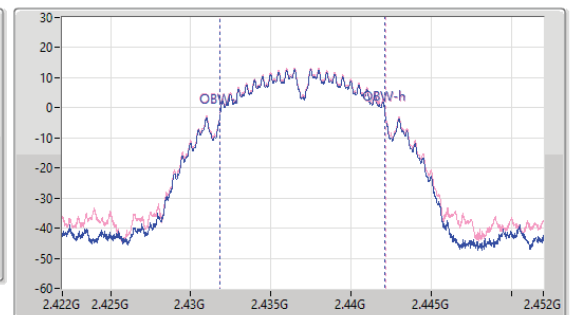
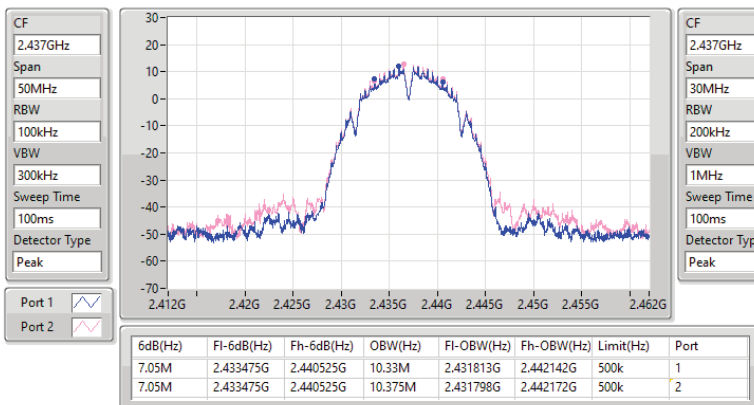
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

24/12/2022


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

24/12/2022

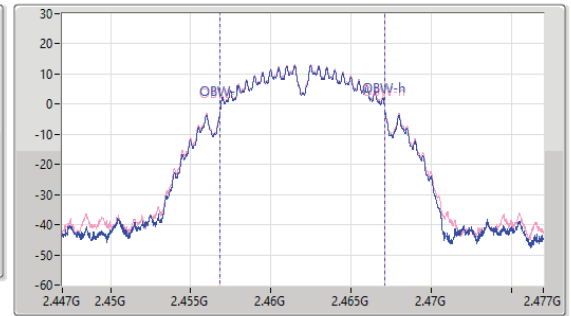
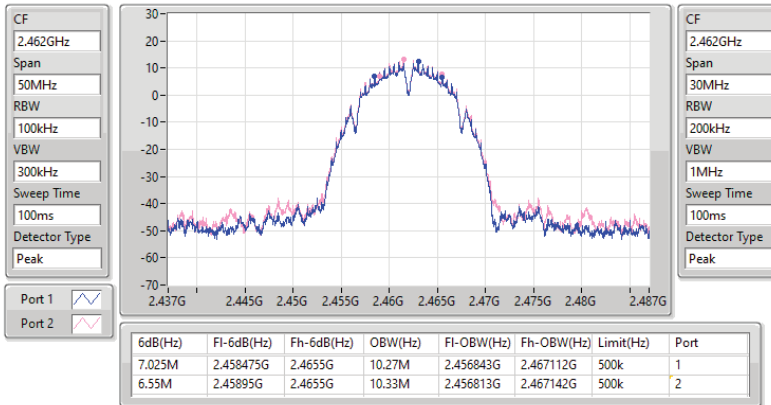


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

24/12/2022

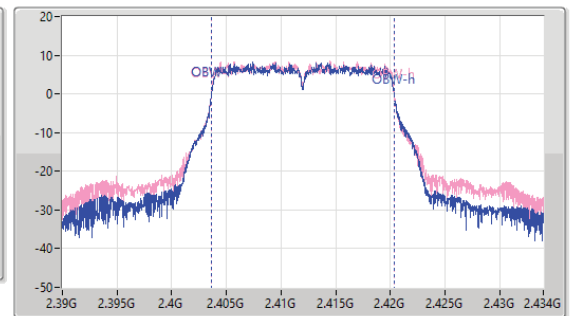
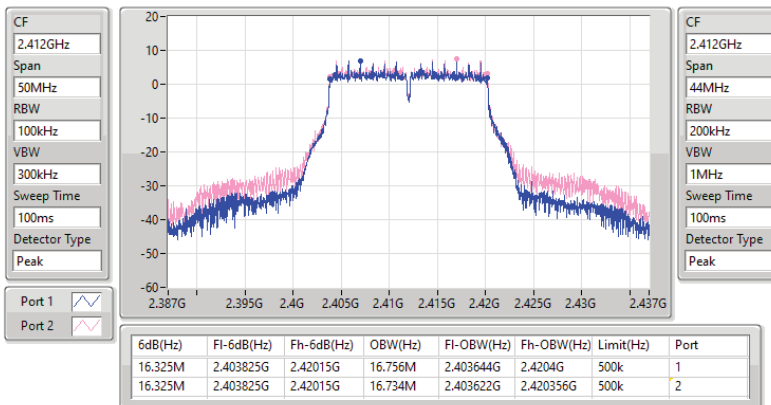


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

24/12/2022

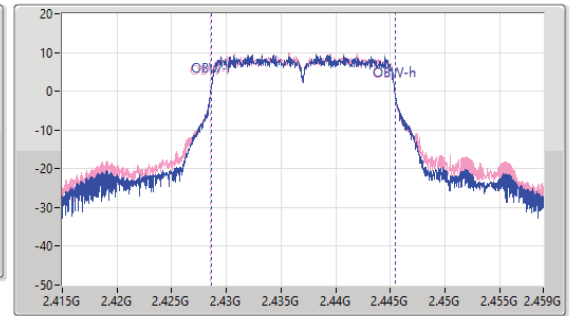
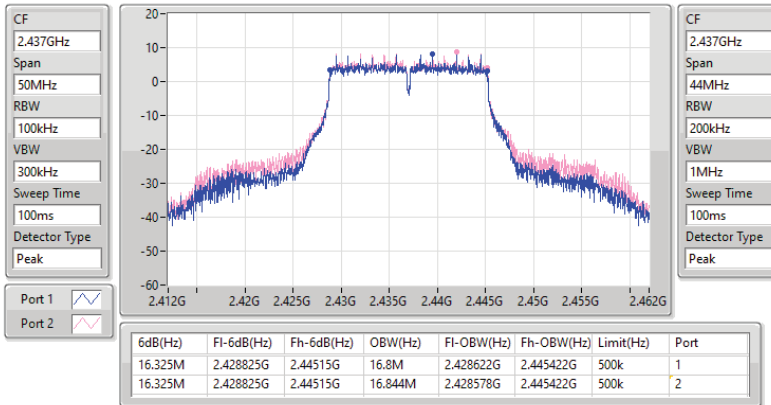


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

24/12/2022

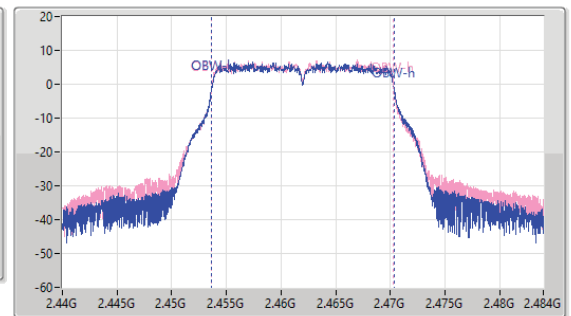
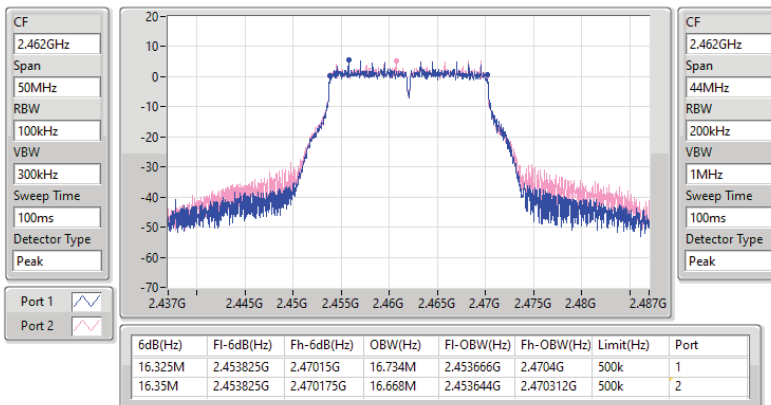


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

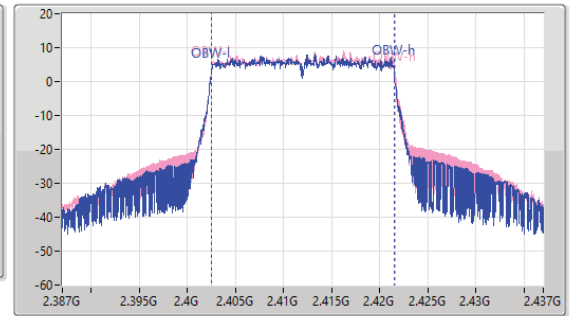
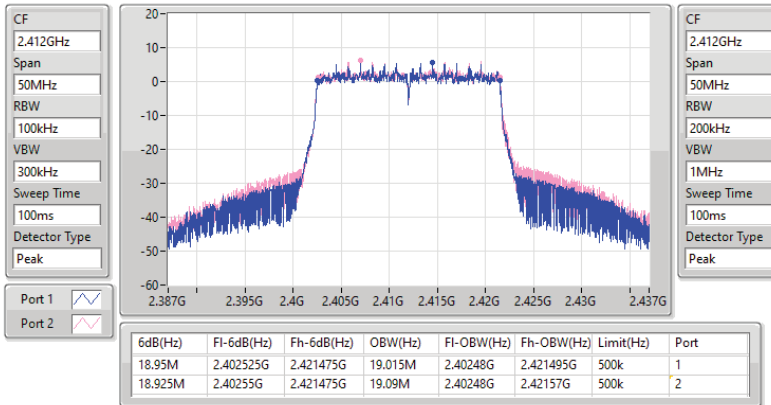
2462MHz

24/12/2022

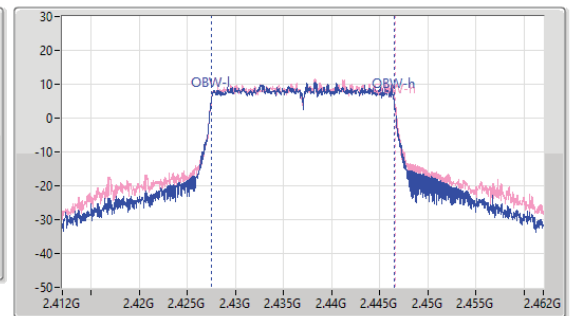
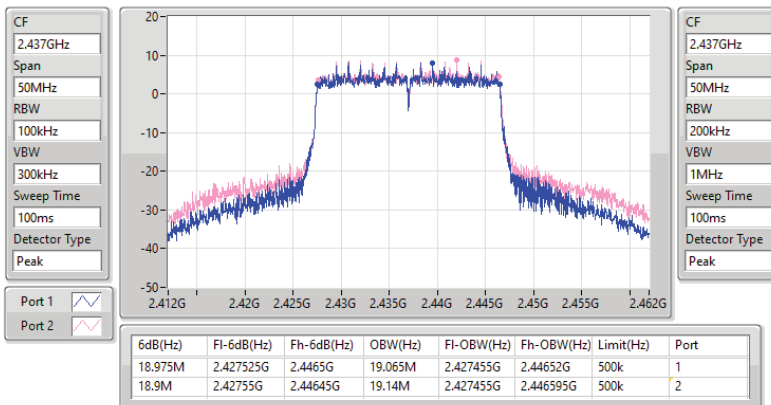


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

24/12/2022

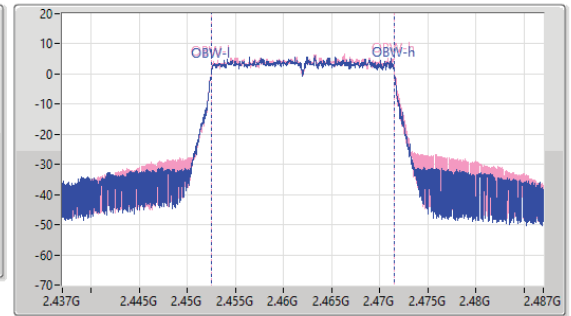
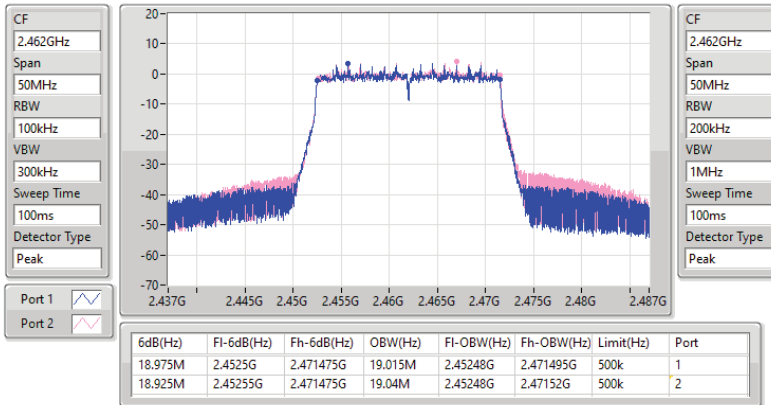

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

24/12/2022

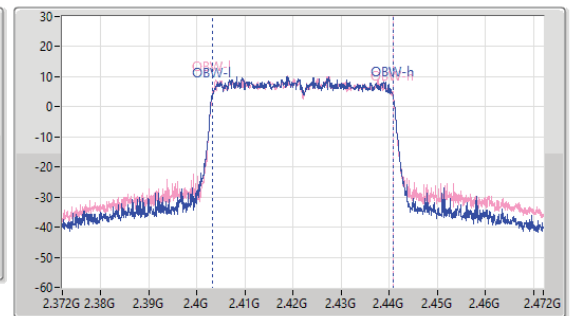
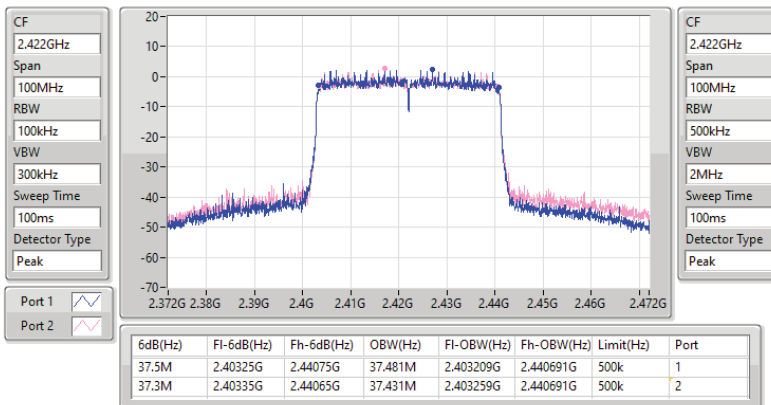


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

24/12/2022


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

24/12/2022

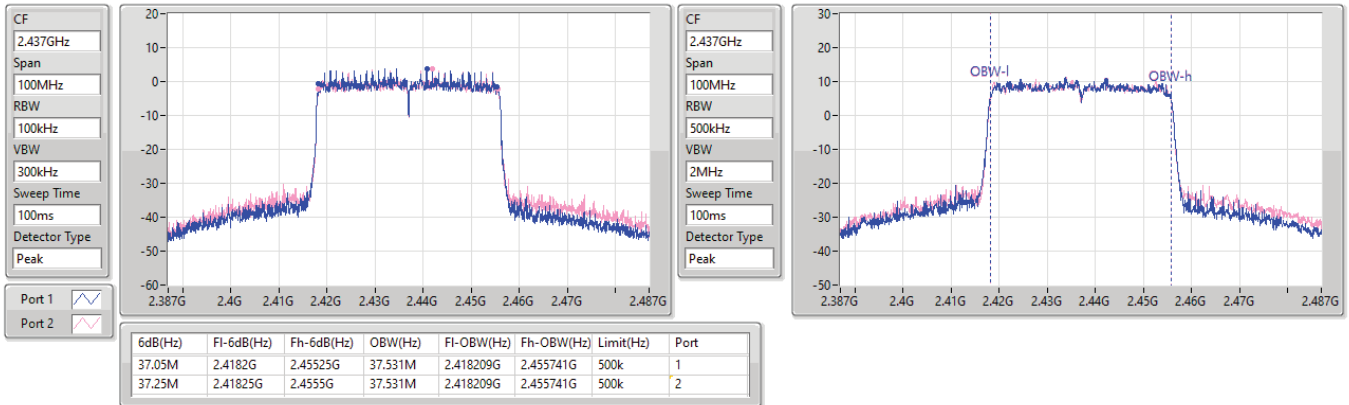


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

24/12/2022

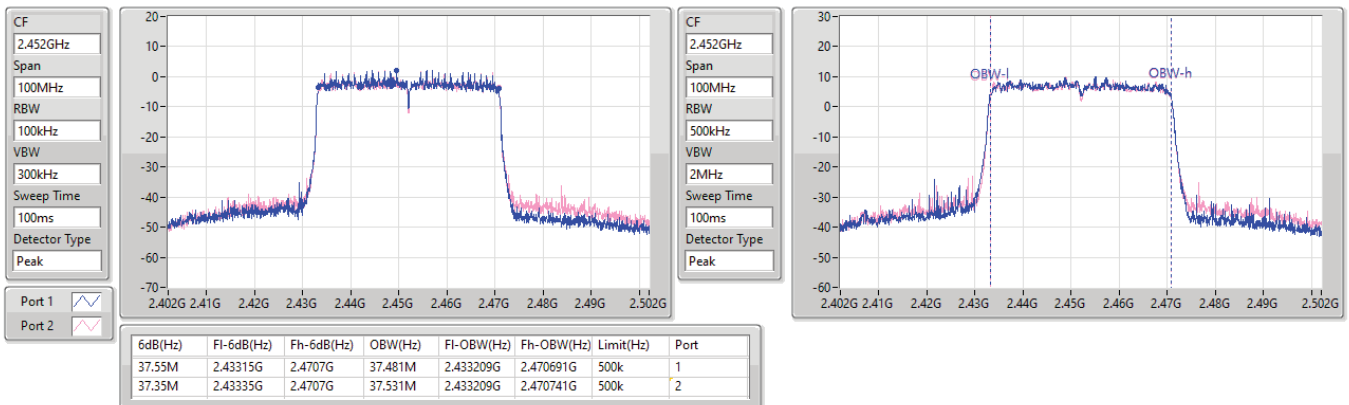


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

24/12/2022



**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)_1TX	7.025M	10.3M	10M3G1D	6.6M	10.285M
802.11b_Nss1,(1Mbps)_2TX	7.05M	10.345M	10M3G1D	6.525M	10.27M
802.11g_Nss1,(6Mbps)_1TX	16.35M	16.778M	16M8D1D	16.325M	16.734M
802.11g_Nss1,(6Mbps)_2TX	16.35M	16.8M	16M8D1D	16.325M	16.668M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.975M	19.065M	19M1D1D	18.925M	19.015M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.025M	19.115M	19M1D1D	18.95M	19.015M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.7M	37.531M	37M5D1D	37.3M	37.531M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.65M	37.531M	37M5D1D	37.05M	37.481M

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)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.025M	10.285M		
2437MHz	Pass	500k	6.6M	10.285M		
2462MHz	Pass	500k	7.025M	10.3M		
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.734M		
2437MHz	Pass	500k	16.325M	16.778M		
2462MHz	Pass	500k	16.325M	16.734M		
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.015M		
2437MHz	Pass	500k	18.975M	19.065M		
2462MHz	Pass	500k	18.925M	19.015M		
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.7M	37.531M		
2437MHz	Pass	500k	37.3M	37.531M		
2452MHz	Pass	500k	37.6M	37.531M		
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.05M	10.33M	6.525M	10.285M
2437MHz	Pass	500k	7.025M	10.345M	7.025M	10.315M
2462MHz	Pass	500k	6.525M	10.27M	7.025M	10.33M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.712M	16.325M	16.668M
2437MHz	Pass	500k	16.35M	16.778M	16.325M	16.8M
2462MHz	Pass	500k	16.35M	16.734M	16.35M	16.69M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	19.025M	19.015M	18.95M	19.065M
2437MHz	Pass	500k	18.95M	19.065M	18.95M	19.115M
2462MHz	Pass	500k	18.975M	19.015M	18.975M	19.04M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.15M	37.481M	37.05M	37.481M
2437MHz	Pass	500k	37.4M	37.531M	37.55M	37.531M
2452MHz	Pass	500k	37.65M	37.531M	37.3M	37.481M

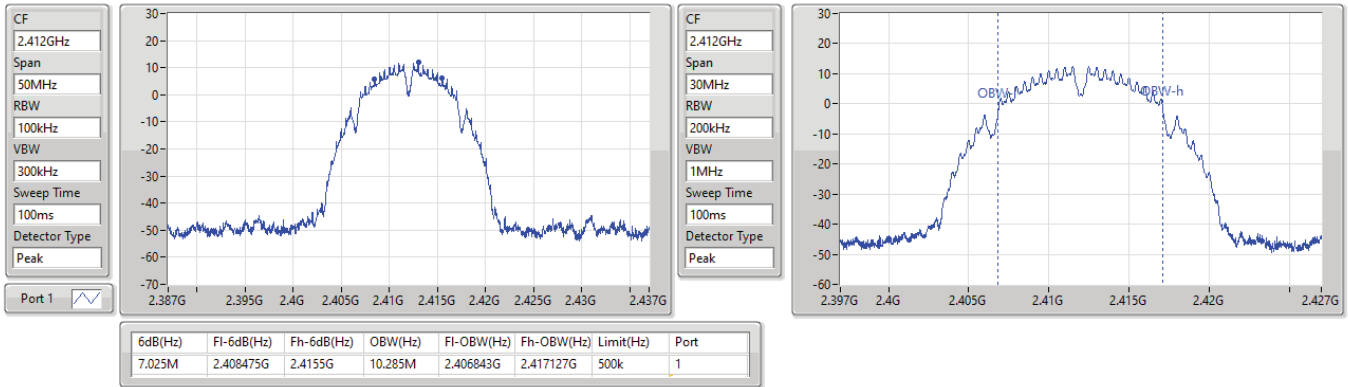
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

24/12/2022

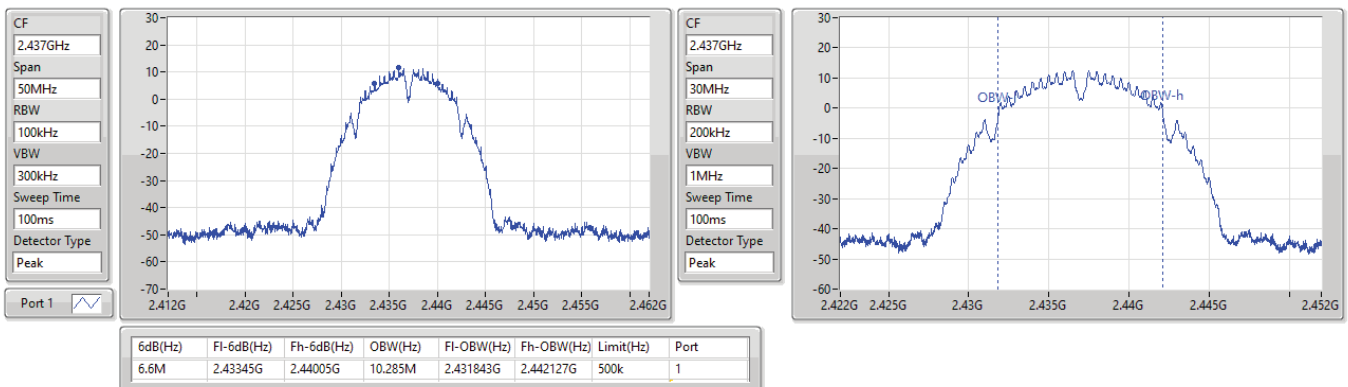


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

24/12/2022

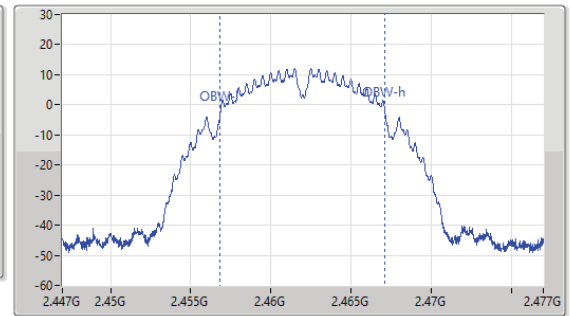
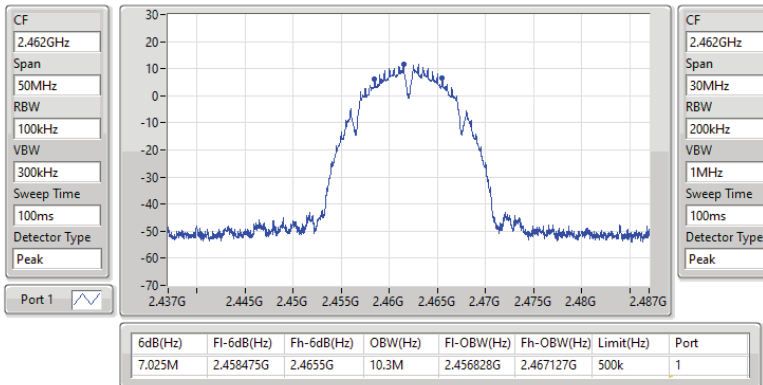


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

24/12/2022

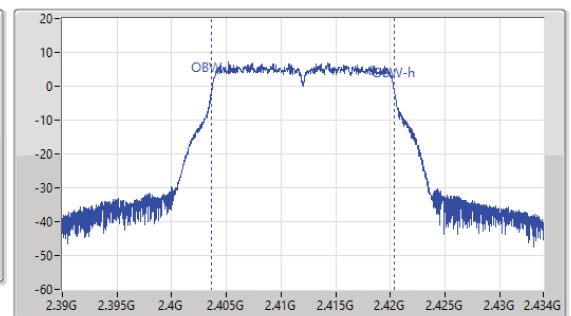
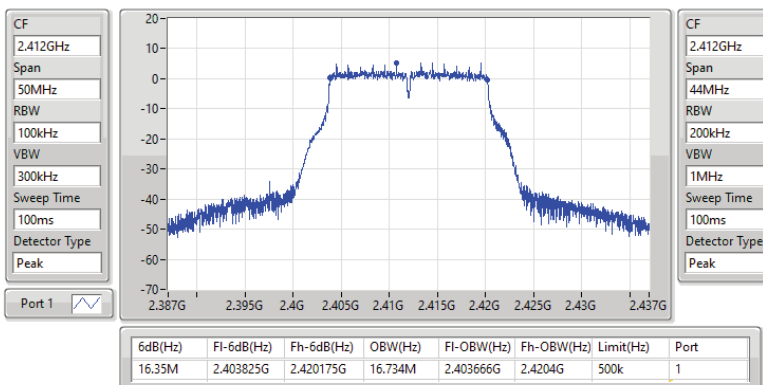


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

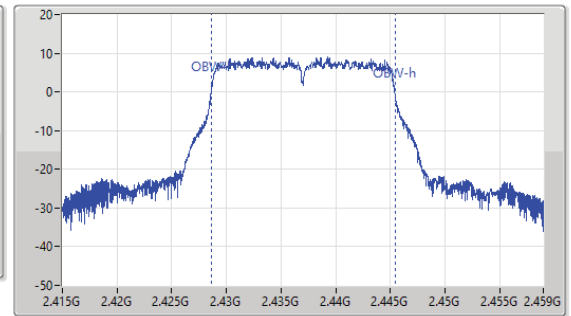
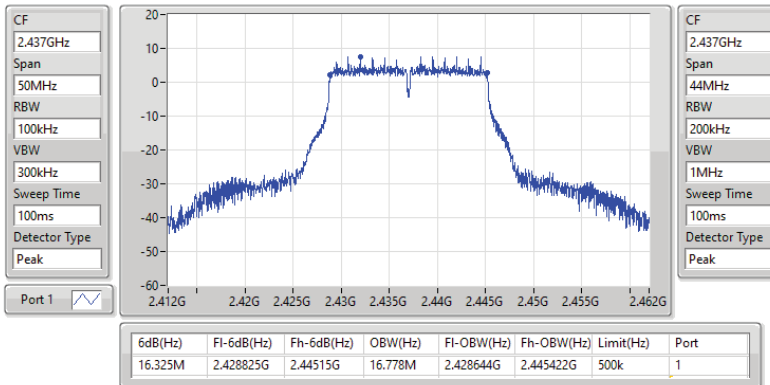
2412MHz

24/12/2022

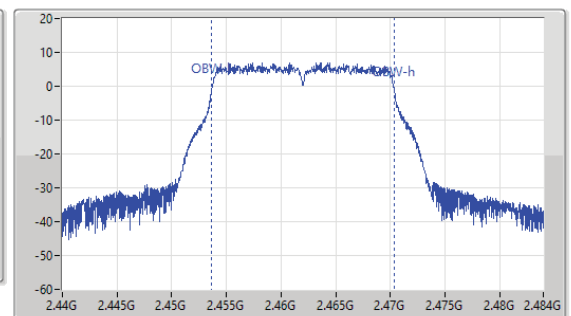
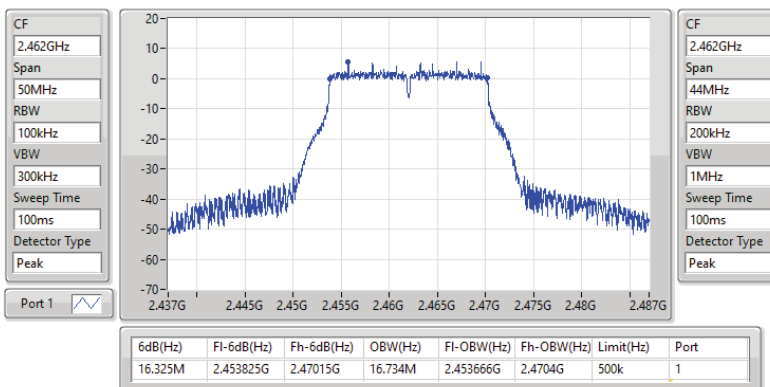


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

24/12/2022

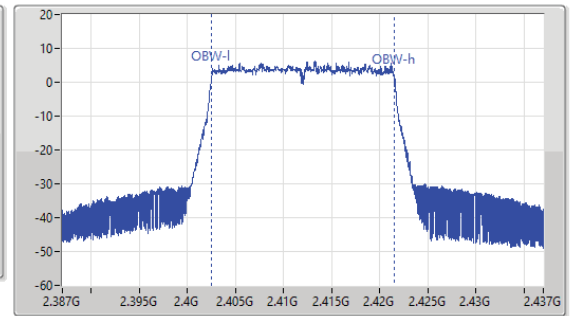
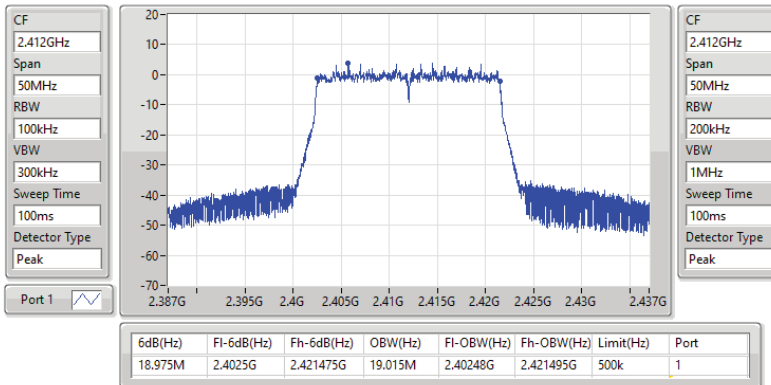

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

24/12/2022

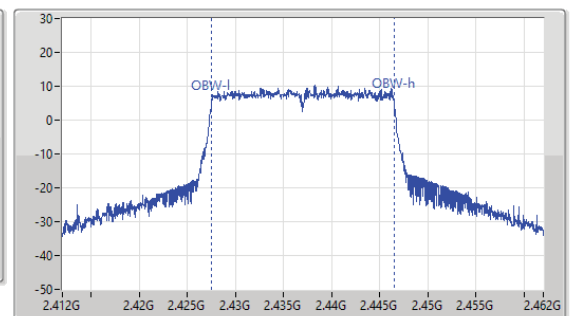
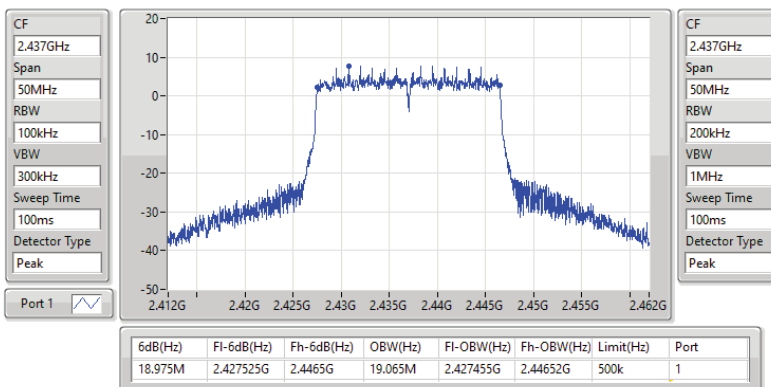


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2412MHz

24/12/2022

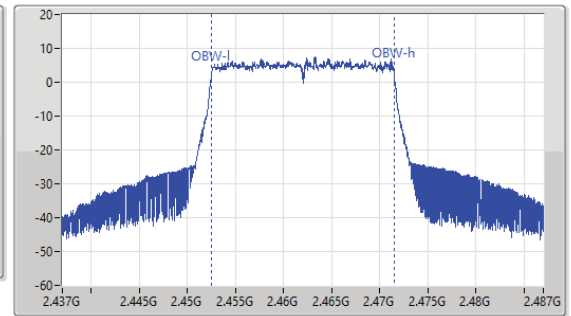
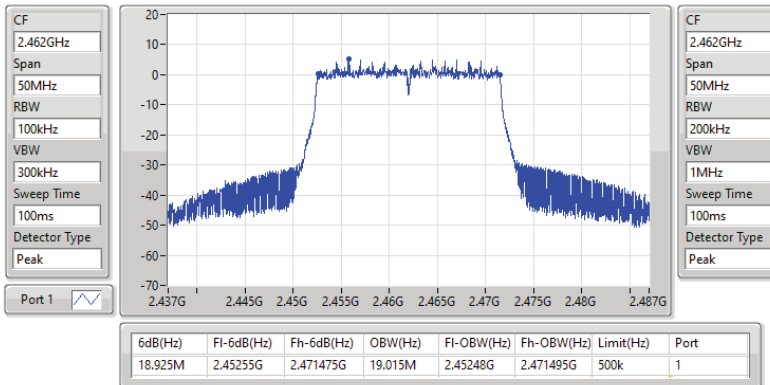

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2437MHz

24/12/2022

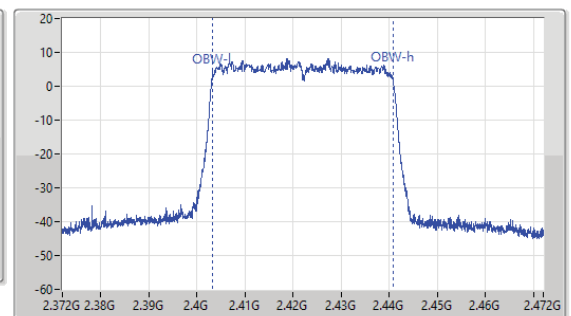
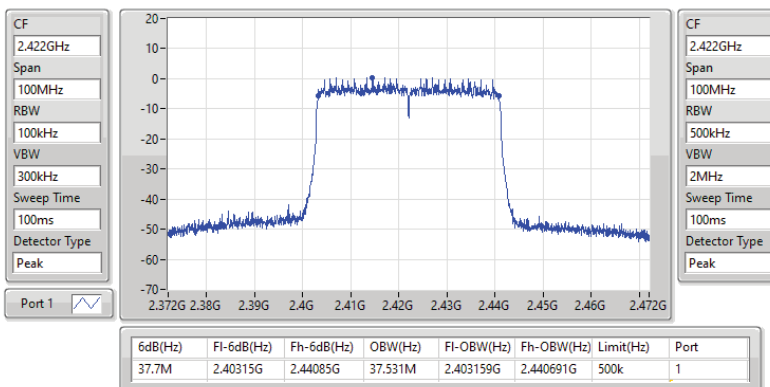


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX
EBW
2462MHz

24/12/2022

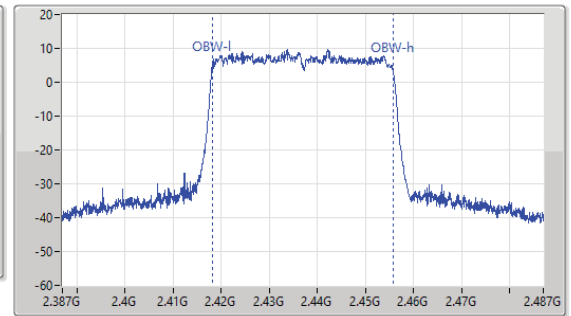
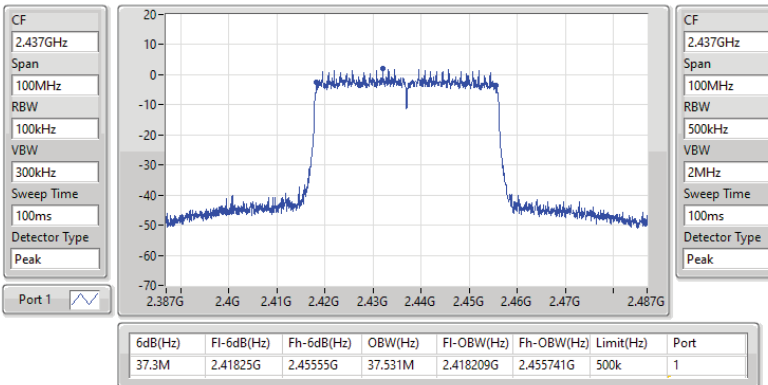

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
2422MHz

24/12/2022

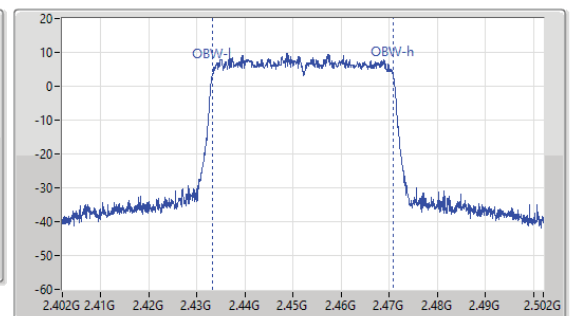
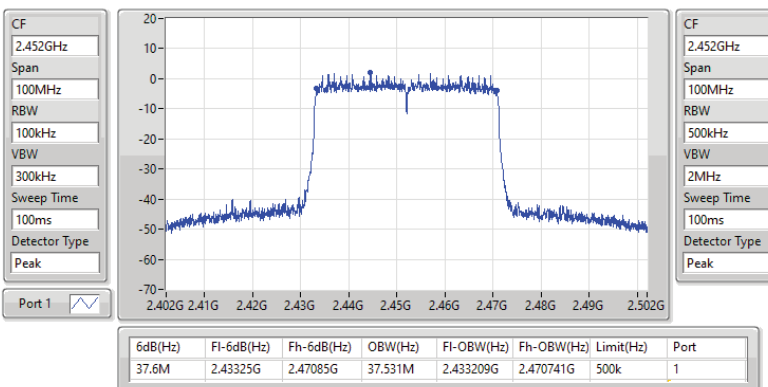


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
2437MHz

24/12/2022


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
2452MHz

24/12/2022

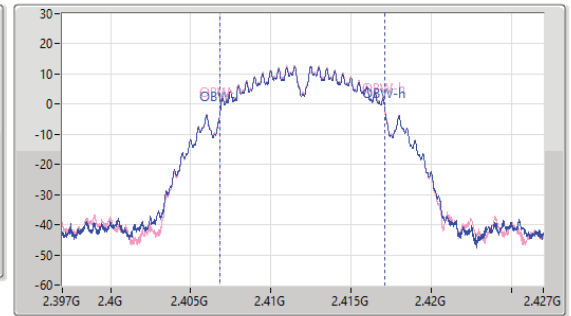
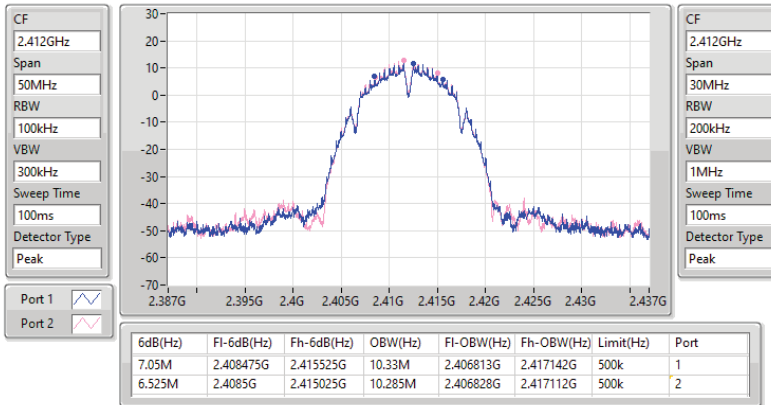


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2412MHz

24/12/2022

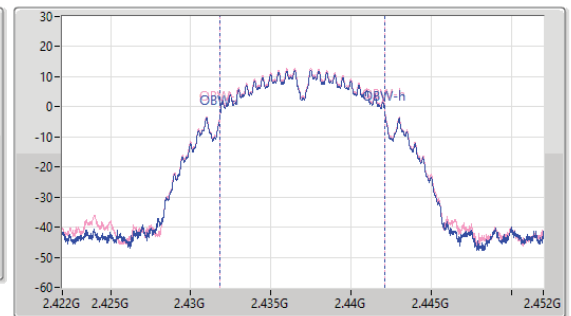
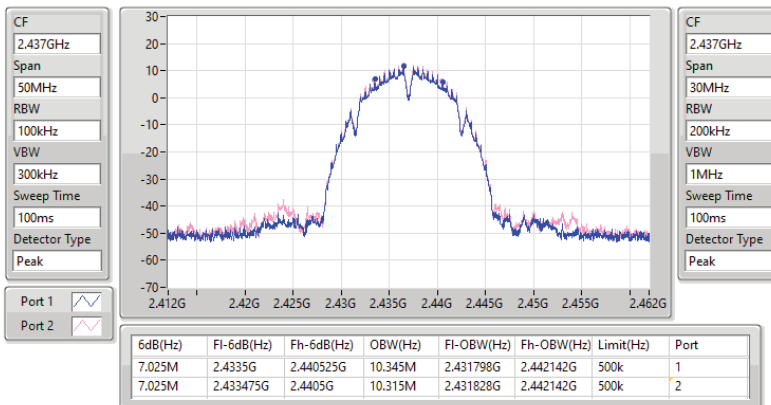


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

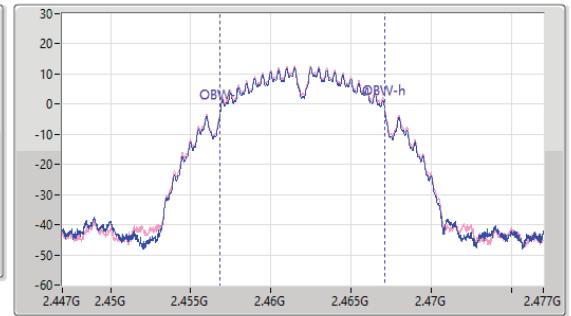
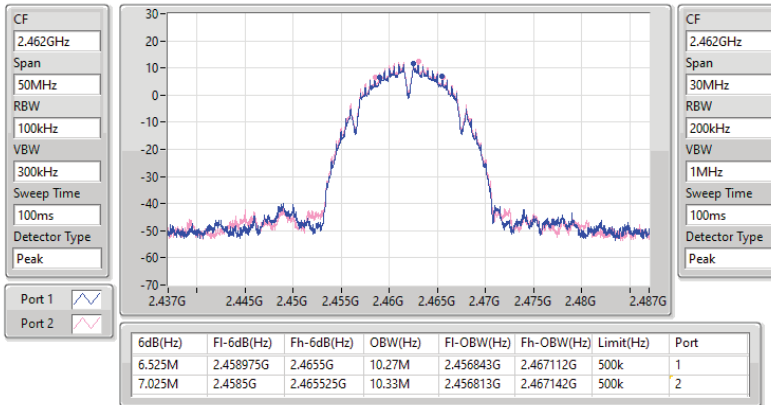
2437MHz

24/12/2022

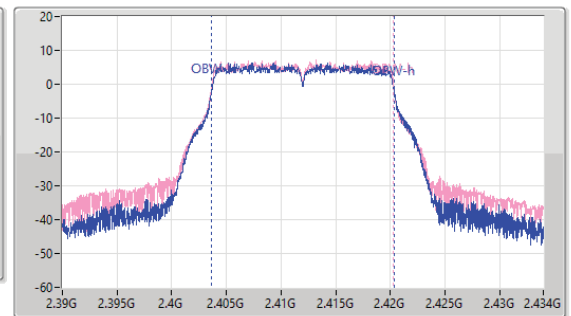
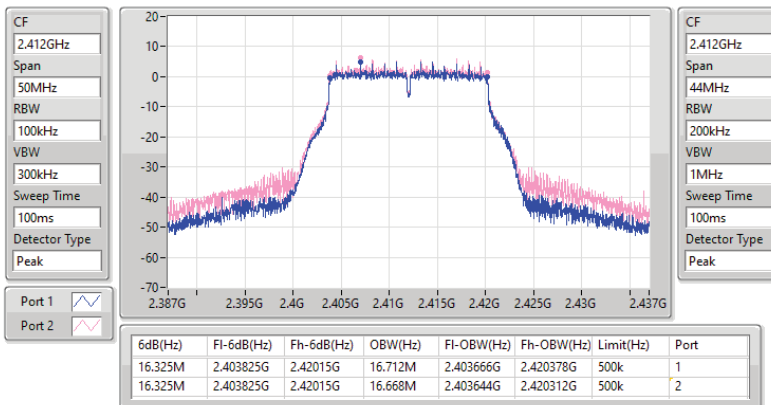


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

24/12/2022

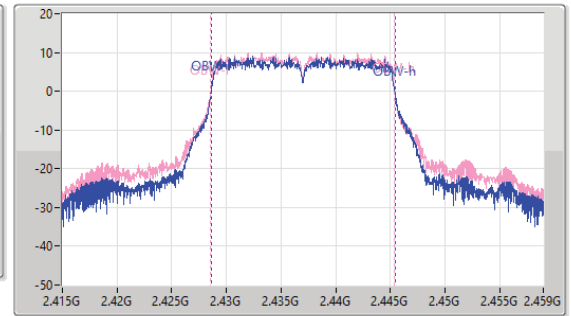
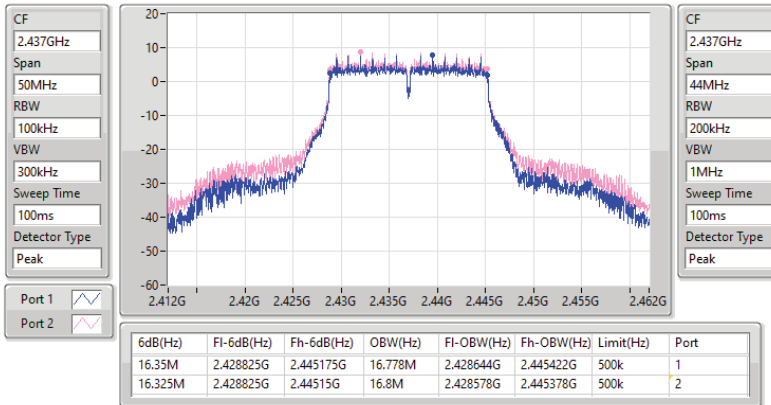

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

24/12/2022

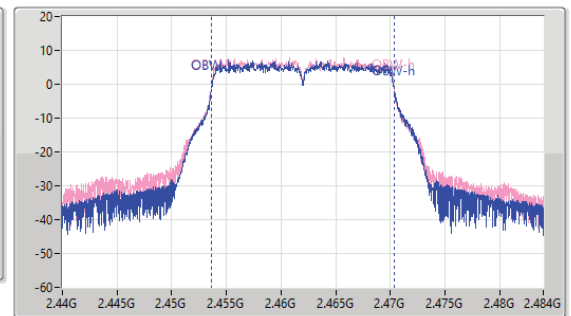
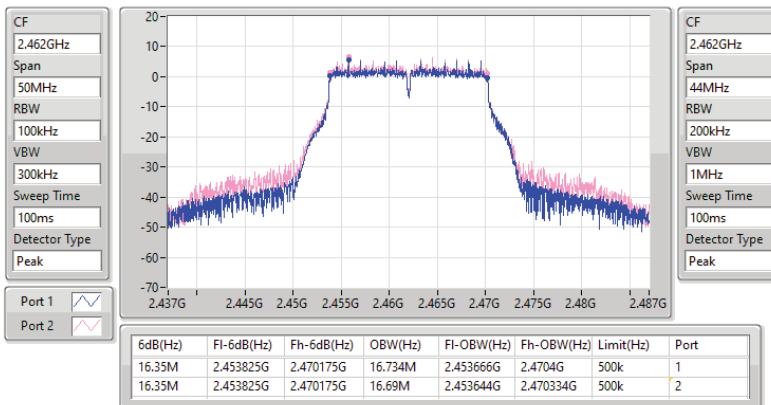


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

24/12/2022


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

24/12/2022

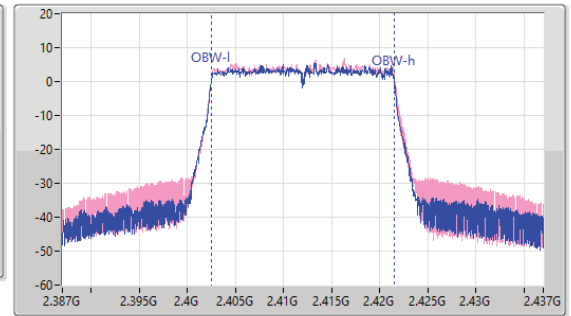
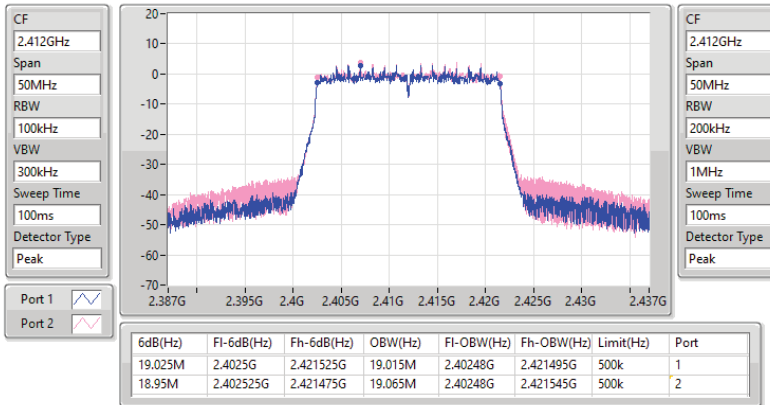


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

24/12/2022

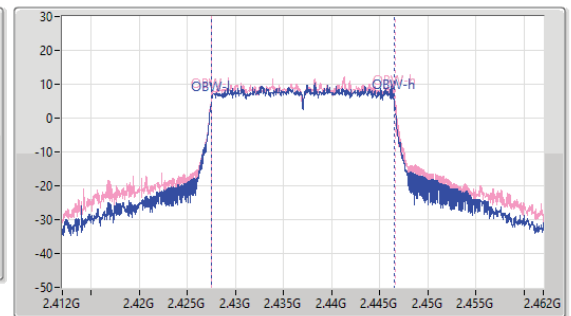
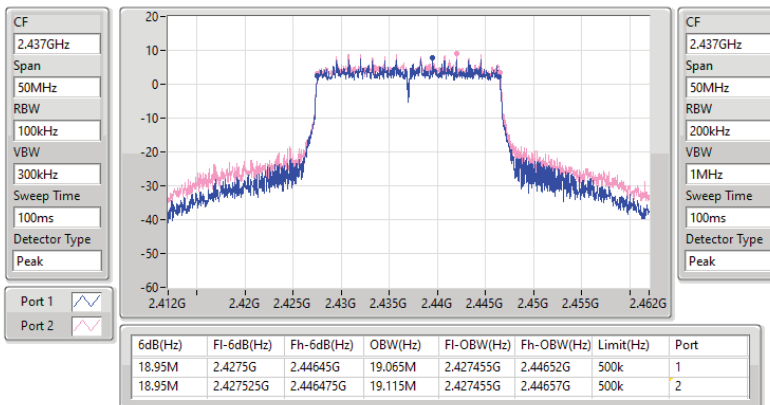


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

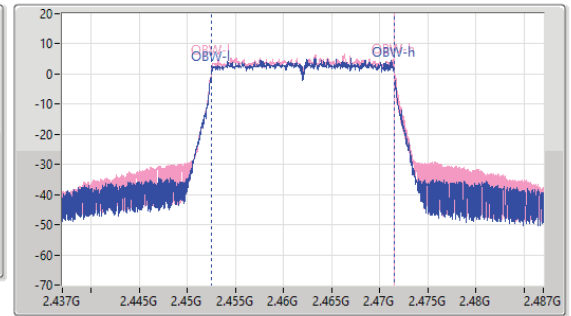
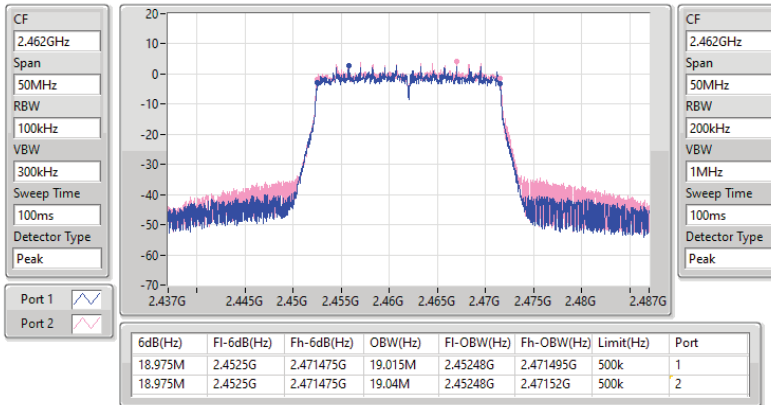
2437MHz

24/12/2022

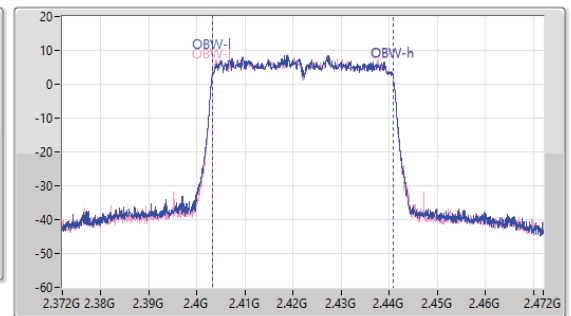
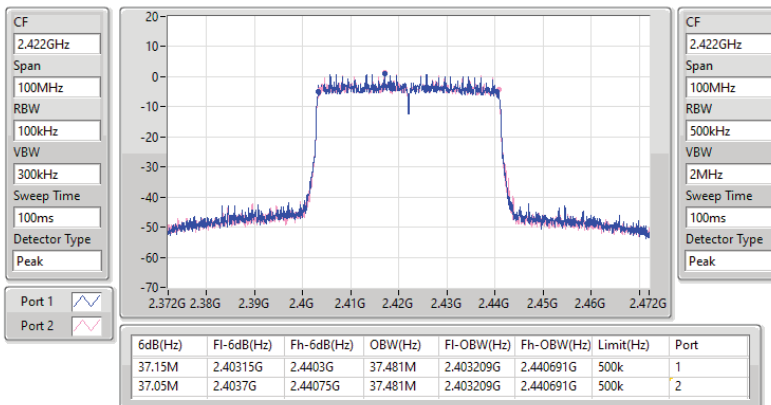


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

24/12/2022


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

24/12/2022

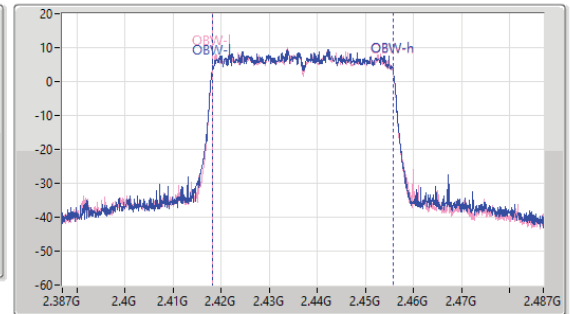
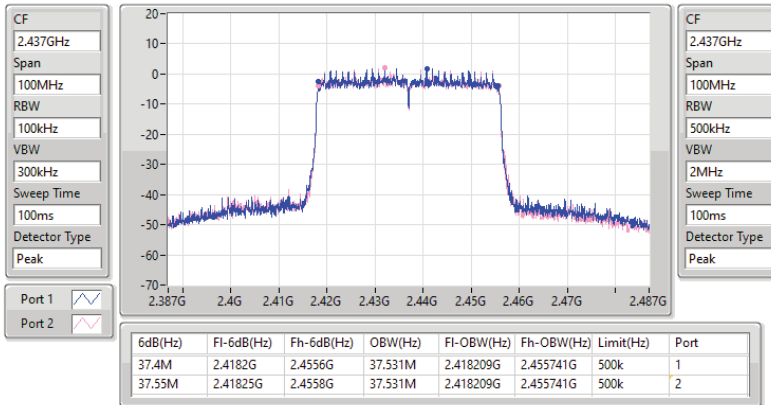


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

24/12/2022

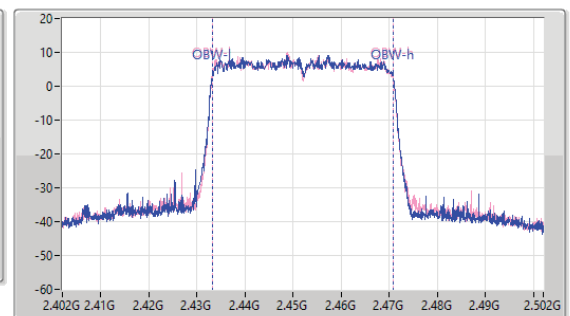
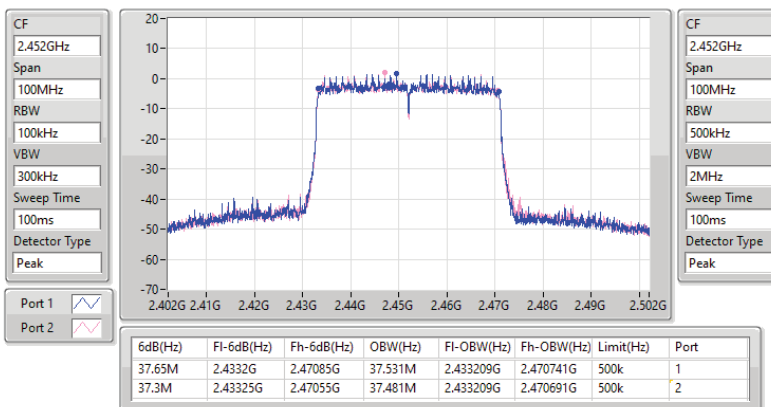


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

24/12/2022





Average Power_Non-Beamforming_Radio 1

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.14	0.20606
802.11g_Nss1,(6Mbps)_2TX	22.83	0.19187
802.11ax HEW20_Nss1,(MCS0)_2TX	23.16	0.20701
802.11ax HEW40_Nss1,(MCS0)_2TX	21.01	0.12618



Average Power_Non-Beamforming_Radio 1

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.04	19.83	20.34	23.10	30.00
2437MHz	Pass	3.04	19.79	20.44	23.14	30.00
2462MHz	Pass	3.04	19.86	20.37	23.13	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.04	18.19	18.84	21.54	30.00
2417MHz	Pass	3.04	18.73	19.44	22.11	30.00
2437MHz	Pass	3.04	19.55	20.07	22.83	30.00
2457MHz	Pass	3.04	18.70	19.29	22.02	30.00
2462MHz	Pass	3.04	16.84	17.23	20.05	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.04	17.29	17.84	20.58	30.00
2417MHz	Pass	3.04	18.24	18.88	21.58	30.00
2437MHz	Pass	3.04	19.94	20.35	23.16	30.00
2457MHz	Pass	3.04	18.12	18.70	21.43	30.00
2462MHz	Pass	3.04	15.27	15.76	18.53	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.04	16.76	16.80	19.79	30.00
2427MHz	Pass	3.04	17.41	17.54	20.49	30.00
2437MHz	Pass	3.04	17.98	18.01	21.01	30.00
2447MHz	Pass	3.04	17.31	17.27	20.30	30.00
2452MHz	Pass	3.04	16.49	16.30	19.41	30.00

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



Average Power_Non-Beamforming_Radio 2

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.19	0.08299
802.11b_Nss1,(1Mbps)_2TX	22.73	0.18750
802.11g_Nss1,(6Mbps)_1TX	19.01	0.07962
802.11g_Nss1,(6Mbps)_2TX	22.61	0.18239
802.11ax HEW20_Nss1,(MCS0)_1TX	19.32	0.08551
802.11ax HEW20_Nss1,(MCS0)_2TX	22.86	0.19320
802.11ax HEW40_Nss1,(MCS0)_1TX	19.67	0.09268
802.11ax HEW40_Nss1,(MCS0)_2TX	22.75	0.18836



Average Power_Non-Beamforming_Radio 2

Appendix C.2

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.10	19.04		19.04	30.00
2437MHz	Pass	2.10	19.12		19.12	30.00
2462MHz	Pass	2.10	19.19		19.19	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.10	16.94		16.94	30.00
2417MHz	Pass	2.10	17.76		17.76	30.00
2437MHz	Pass	2.10	19.01		19.01	30.00
2457MHz	Pass	2.10	18.95		18.95	30.00
2462MHz	Pass	2.10	17.07		17.07	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2412MHz	Pass	2.10	15.17		15.17	30.00
2417MHz	Pass	2.10	18.27		18.27	30.00
2437MHz	Pass	2.10	19.32		19.32	30.00
2457MHz	Pass	2.10	18.52		18.52	30.00
2462MHz	Pass	2.10	16.68		16.68	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2422MHz	Pass	2.10	14.87		14.87	30.00
2427MHz	Pass	2.10	15.13		15.13	30.00
2437MHz	Pass	2.10	16.27		16.27	30.00
2447MHz	Pass	2.10	19.67		19.67	30.00
2452MHz	Pass	2.10	16.25		16.25	30.00
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.50	19.43	19.99	22.73	30.00
2437MHz	Pass	2.50	19.21	19.90	22.58	30.00
2462MHz	Pass	2.50	19.07	19.90	22.52	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.50	16.34	17.09	19.74	30.00
2417MHz	Pass	2.50	16.88	17.66	20.30	30.00
2437MHz	Pass	2.50	19.05	20.08	22.61	30.00
2457MHz	Pass	2.50	17.54	18.55	21.08	30.00
2462MHz	Pass	2.50	17.00	17.90	20.48	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.50	14.65	15.50	18.11	30.00
2417MHz	Pass	2.50	17.58	18.34	20.99	30.00
2437MHz	Pass	2.50	19.26	20.36	22.86	30.00
2457MHz	Pass	2.50	17.67	18.65	21.20	30.00
2462MHz	Pass	2.50	14.54	15.56	18.09	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.50	15.07	15.18	18.14	30.00
2427MHz	Pass	2.50	15.71	15.76	18.75	30.00
2437MHz	Pass	2.50	16.09	15.99	19.05	30.00
2447MHz	Pass	2.50	19.74	19.73	22.75	30.00
2452MHz	Pass	2.50	15.94	15.92	18.94	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.15	0.20654
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.95	0.12445



Average Power_Beamforming_Radio 1

Appendix C.3

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.46	17.21	17.76	20.50	30.00
2417MHz	Pass	3.46	18.20	18.84	21.54	30.00
2437MHz	Pass	3.46	19.93	20.34	23.15	30.00
2457MHz	Pass	3.46	18.09	18.67	21.40	30.00
2462MHz	Pass	3.46	15.25	15.74	18.51	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.46	16.75	16.79	19.78	30.00
2427MHz	Pass	3.46	17.36	17.49	20.44	30.00
2437MHz	Pass	3.46	17.92	17.95	20.95	30.00
2447MHz	Pass	3.46	17.28	17.24	20.27	30.00
2452MHz	Pass	3.46	16.44	16.25	19.36	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.26
802.11g_Nss1,(6Mbps)_2TX	-2.97
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.58
802.11ax HEW40_Nss1,(MCS0)_2TX	-8.60

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	3.46	-1.26	-1.75	0.26	8.00
2437MHz	Pass	3.46	-2.96	-1.65	-0.86	8.00
2462MHz	Pass	3.46	-2.81	-1.64	-0.65	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.46	-7.21	-5.31	-3.19	8.00
2437MHz	Pass	3.46	-5.96	-4.14	-2.97	8.00
2462MHz	Pass	3.46	-8.79	-8.90	-6.12	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.46	-7.54	-6.27	-3.85	8.00
2437MHz	Pass	3.46	-6.16	-4.40	-2.58	8.00
2462MHz	Pass	3.46	-11.43	-8.58	-7.85	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.46	-12.35	-11.40	-9.46	8.00
2437MHz	Pass	3.46	-11.85	-10.76	-8.60	8.00
2452MHz	Pass	3.46	-12.35	-12.76	-9.96	8.00

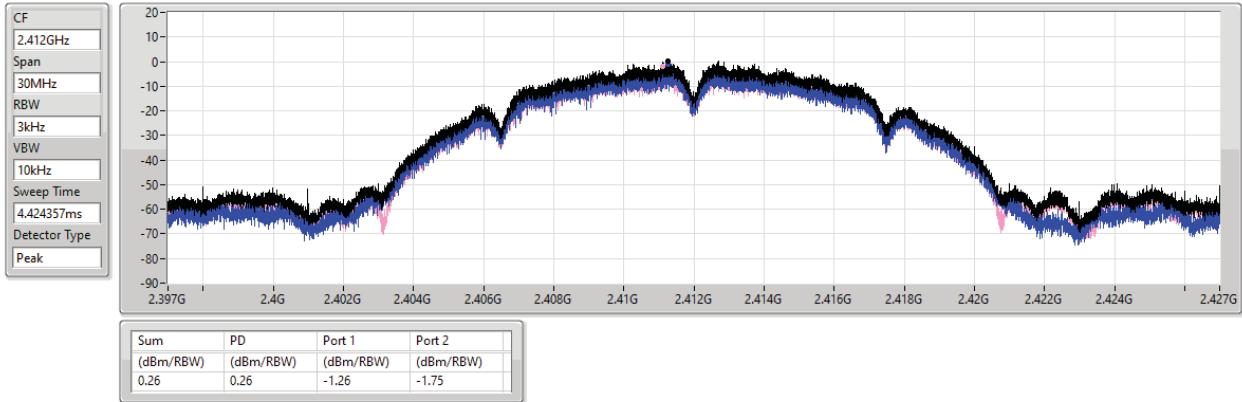
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

24/12/2022

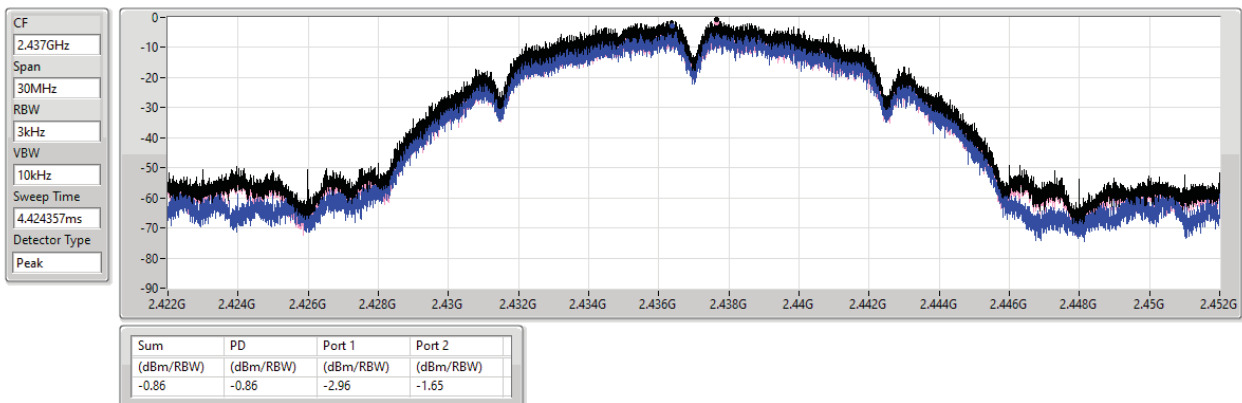


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

24/12/2022



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

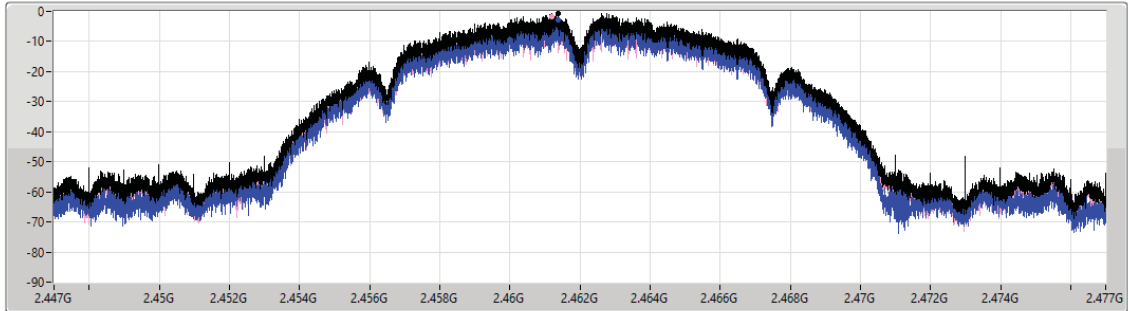
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☐

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.65	-0.65	-2.81	-1.64

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

24/12/2022

CF
2.412GHz

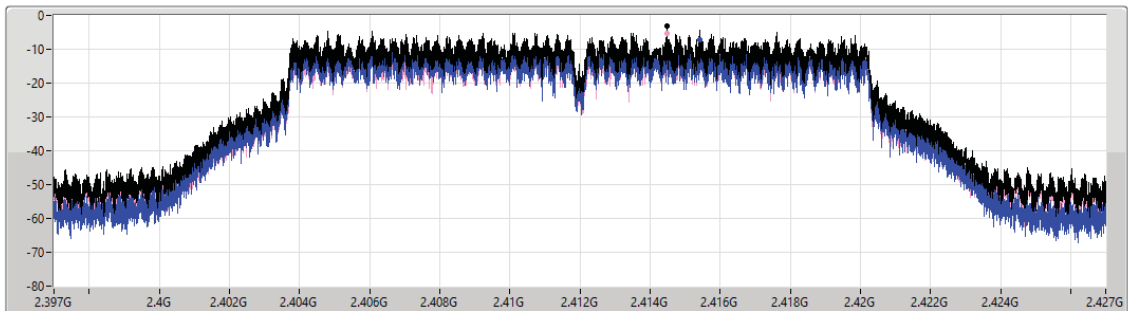
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☐

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.19	-3.19	-7.21	-5.31

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

24/12/2022

CF
2.437GHz

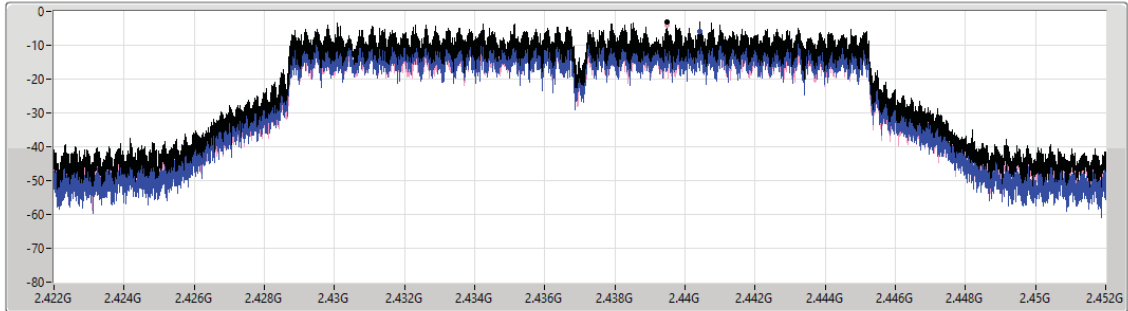
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-2.97	-2.97	-5.96	-4.14

Sum ☒

Port 1 ☐

Port 2 ☐

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

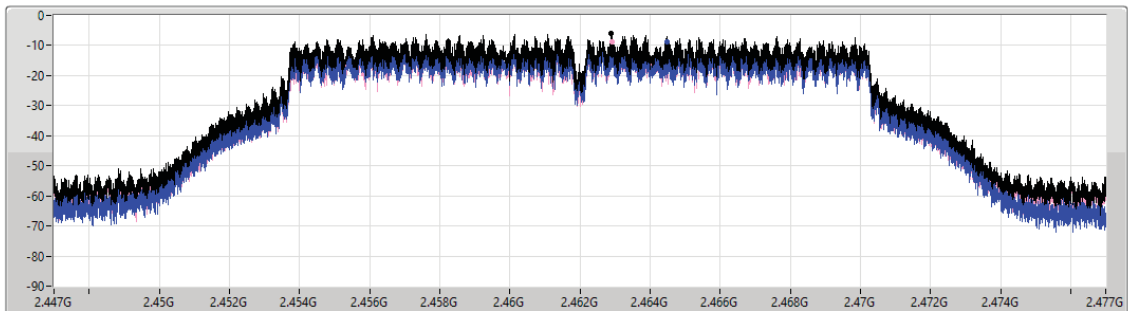
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-6.12	-6.12	-8.79	-8.90

Sum ☒

Port 1 ☐

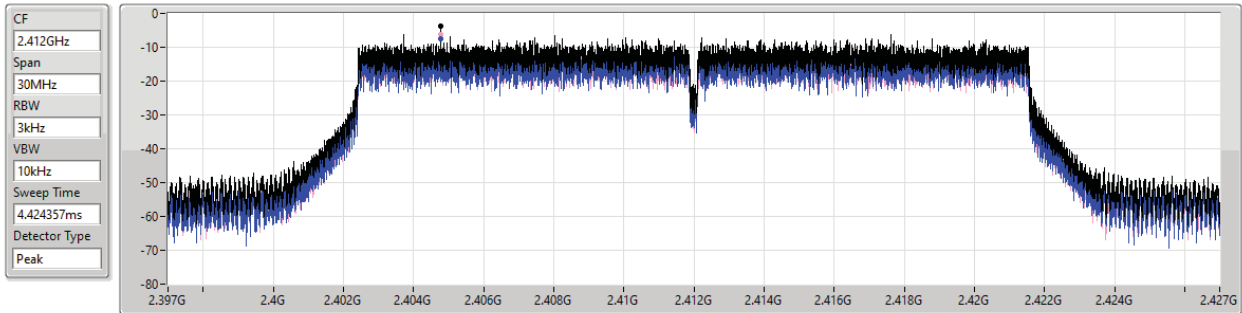
Port 2 ☐

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

24/12/2022



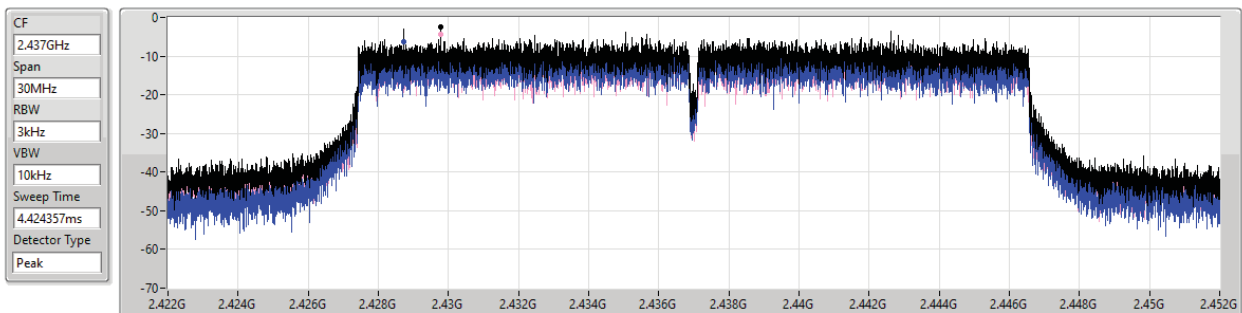
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.85	-3.85	-7.54	-6.27

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

24/12/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.58	-2.58	-6.16	-4.40

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

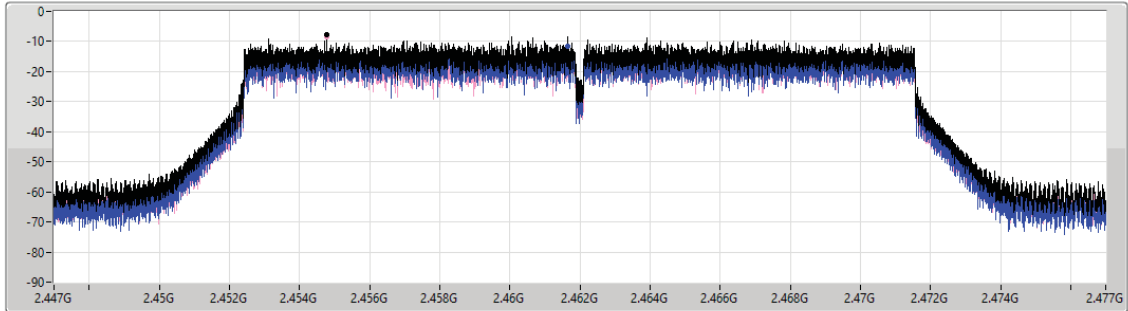
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.85	-7.85	-11.43	-8.58

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

24/12/2022

CF
2.422GHz

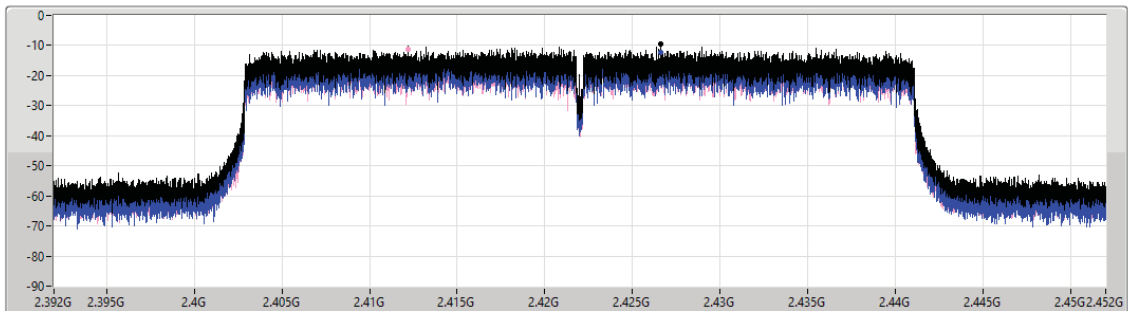
Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



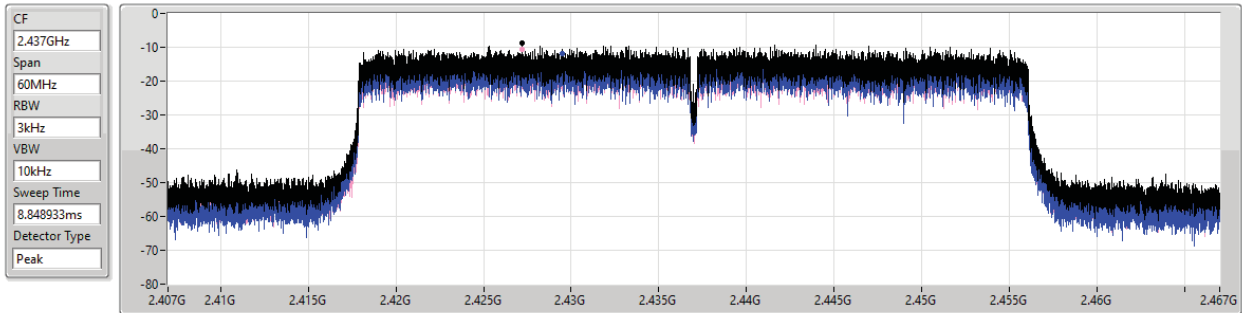
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.46	-9.46	-12.35	-11.40

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

24/12/2022



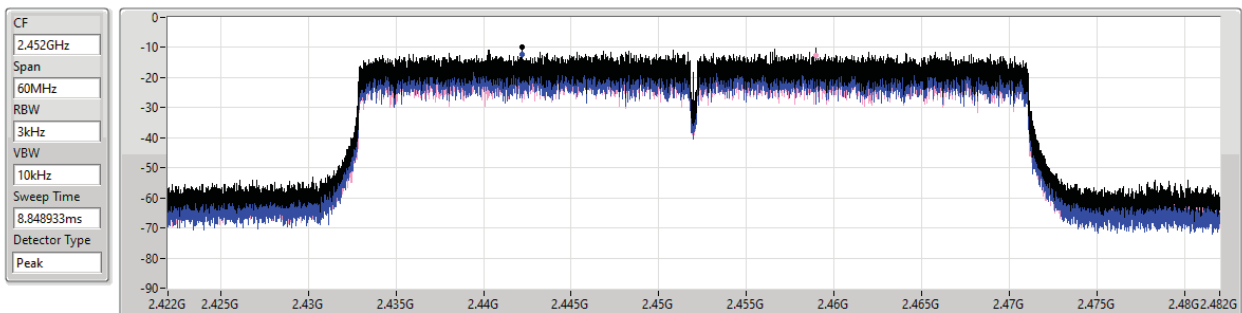
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.60	-8.60	-11.85	-10.76

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

24/12/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.96	-9.96	-12.35	-12.76



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.36
802.11b_Nss1,(1Mbps)_2TX	1.36
802.11g_Nss1,(6Mbps)_1TX	-6.18
802.11g_Nss1,(6Mbps)_2TX	-3.56
802.11ax HEW20_Nss1,(MCS0)_1TX	-6.27
802.11ax HEW20_Nss1,(MCS0)_2TX	-1.76
802.11ax HEW40_Nss1,(MCS0)_1TX	-12.49
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.96

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)_1TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-2.36		-2.36	8.00
2437MHz	Pass	3.71	-2.39		-2.39	8.00
2462MHz	Pass	3.71	-3.62		-3.62	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-8.58		-8.58	8.00
2437MHz	Pass	3.71	-6.18		-6.18	8.00
2462MHz	Pass	3.71	-8.60		-8.60	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-9.61		-9.61	8.00
2437MHz	Pass	3.71	-6.27		-6.27	8.00
2462MHz	Pass	3.71	-8.05		-8.05	8.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-
2422MHz	Pass	3.71	-13.85		-13.85	8.00
2437MHz	Pass	3.71	-12.75		-12.75	8.00
2452MHz	Pass	3.71	-12.49		-12.49	8.00
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-2.27	-2.37	-0.90	8.00
2437MHz	Pass	3.71	-2.99	-2.65	-1.68	8.00
2462MHz	Pass	3.71	-2.63	0.12	1.36	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-9.47	-7.28	-6.02	8.00
2437MHz	Pass	3.71	-6.46	-6.10	-3.56	8.00
2462MHz	Pass	3.71	-8.73	-7.68	-6.31	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.71	-10.03	-8.71	-6.31	8.00
2437MHz	Pass	3.71	-5.45	-4.19	-1.76	8.00
2462MHz	Pass	3.71	-10.42	-8.52	-6.36	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.71	-13.82	-13.02	-11.12	8.00
2437MHz	Pass	3.71	-12.85	-12.85	-9.96	8.00
2452MHz	Pass	3.71	-13.27	-12.81	-10.36	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;

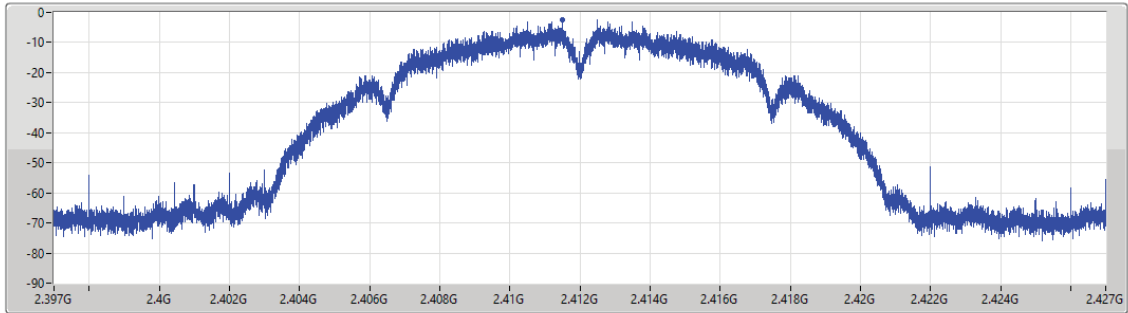
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

24/12/2022

CF
2.412GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.36	-2.36	-2.36

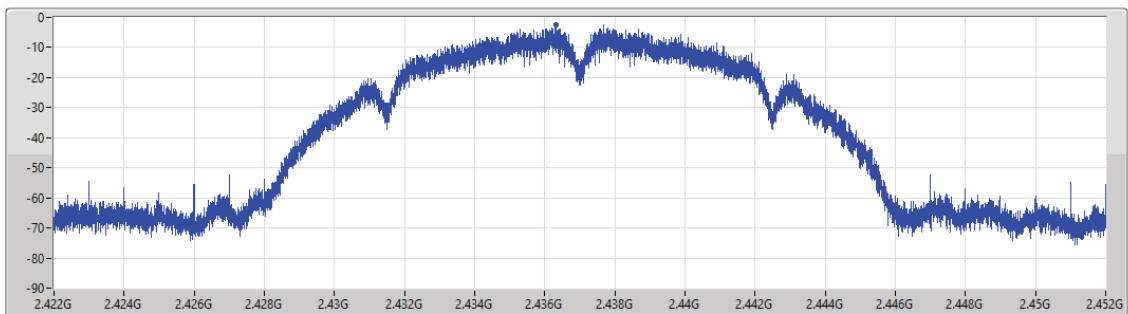
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

24/12/2022

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.39	-2.39	-2.39

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

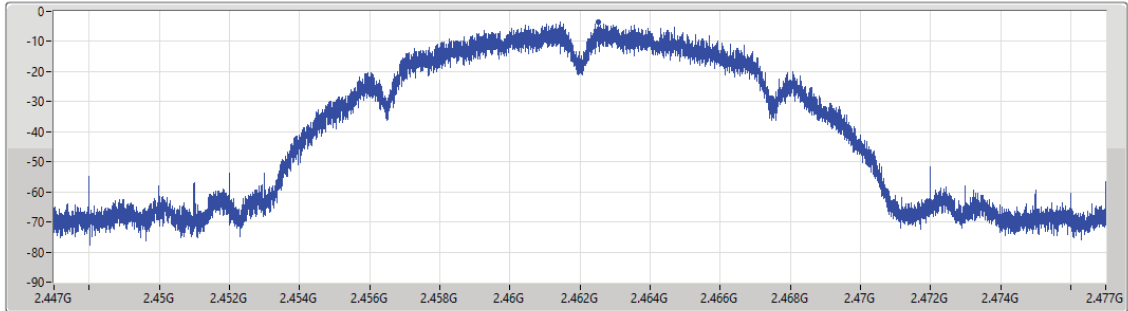
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.62	-3.62	-3.62

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

24/12/2022

CF
2.412GHz

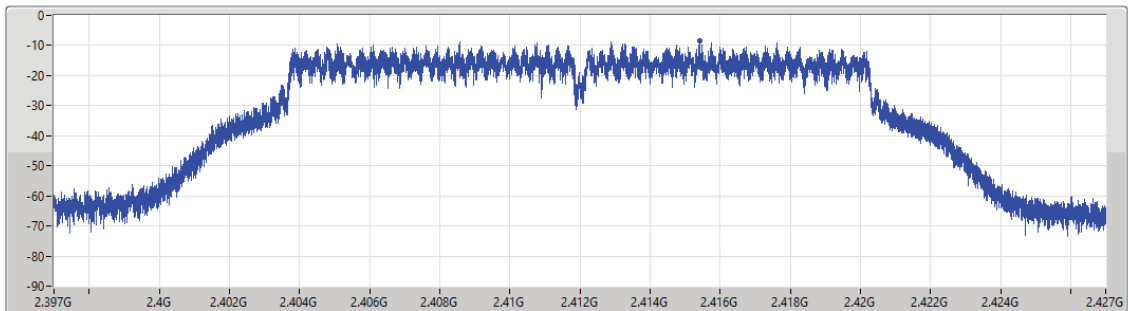
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.58	-8.58	-8.58



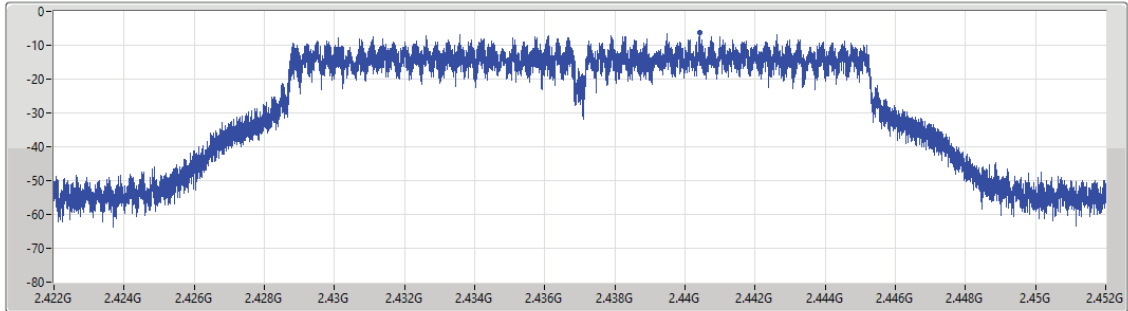
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

24/12/2022

CF
2.437GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.18	-6.18	-6.18

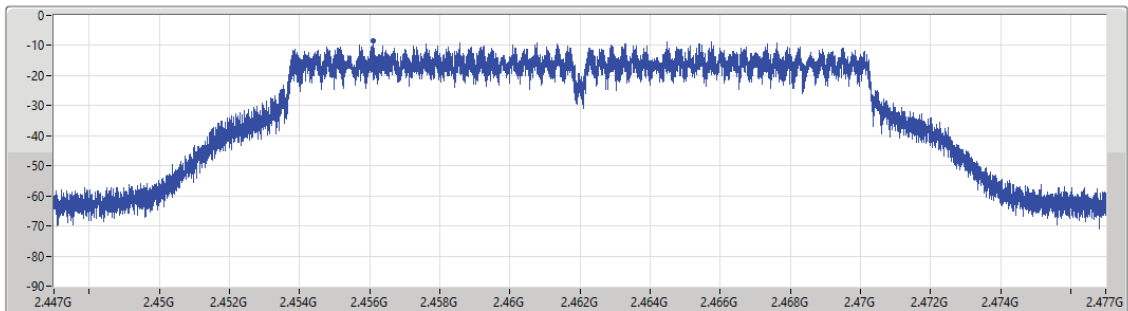
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

24/12/2022

CF
2.462GHz
Span
30MHz
RBW
3kHz
VBW
10kHz
Sweep Time
4.424357ms
Detector Type
Peak



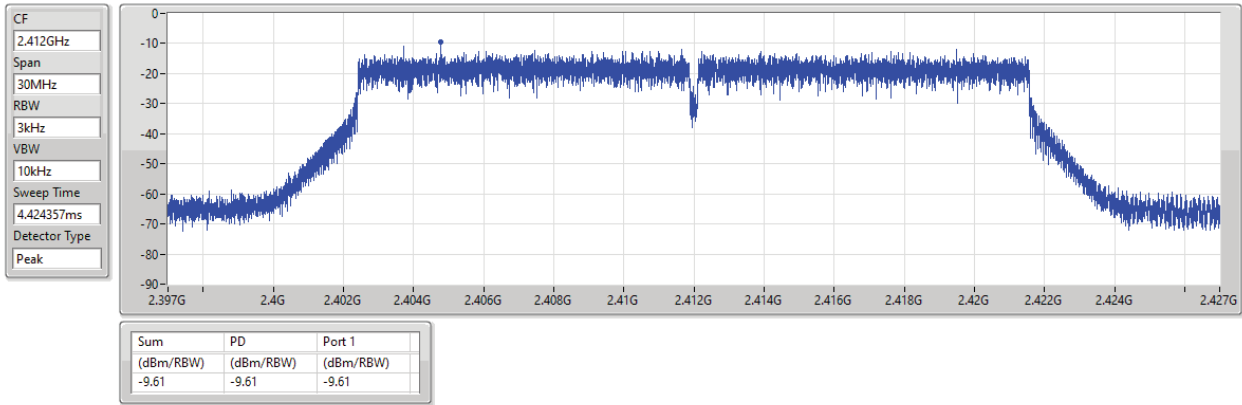
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.60	-8.60	-8.60

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

24/12/2022

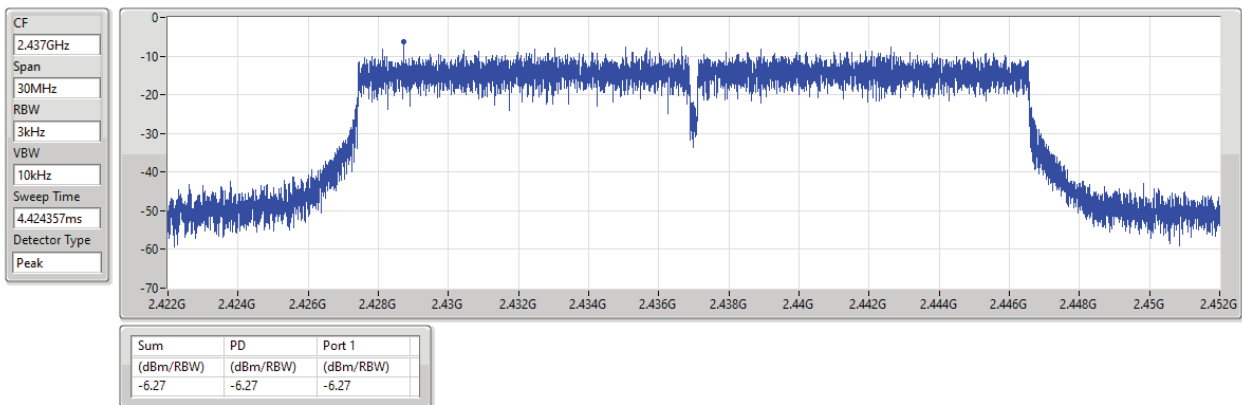


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

24/12/2022

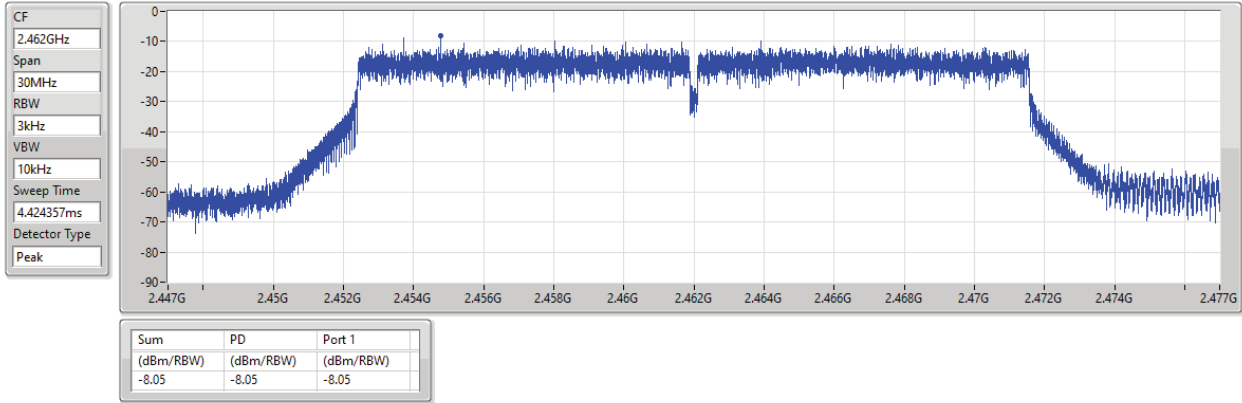


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

24/12/2022

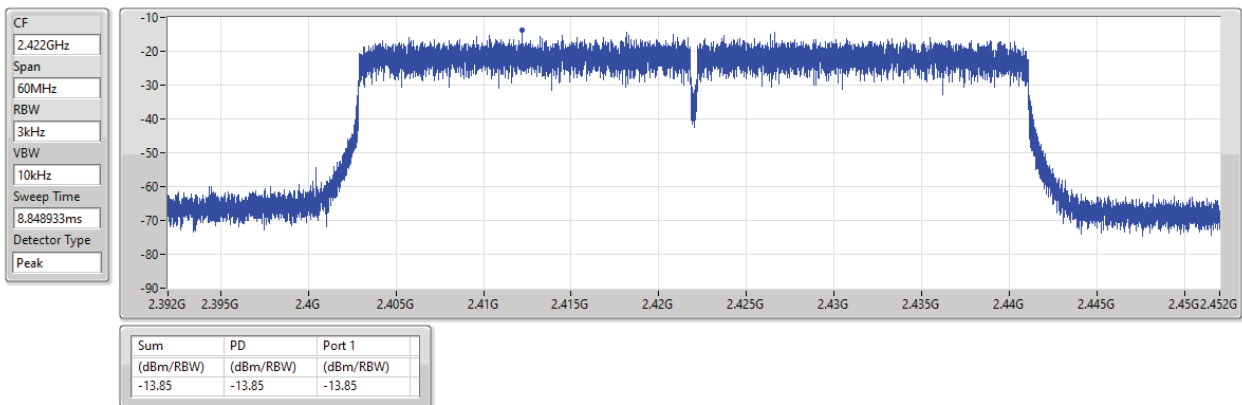


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2422MHz

24/12/2022



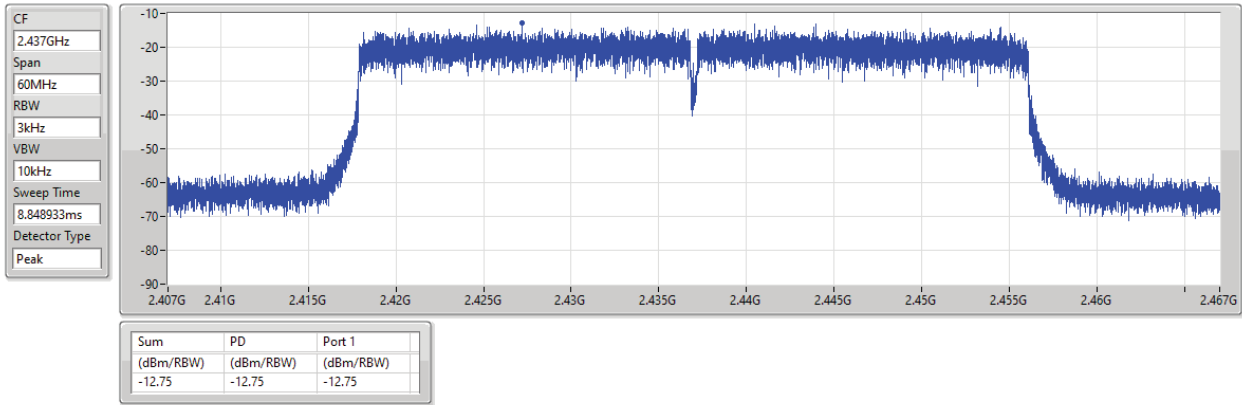


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2437MHz

24/12/2022

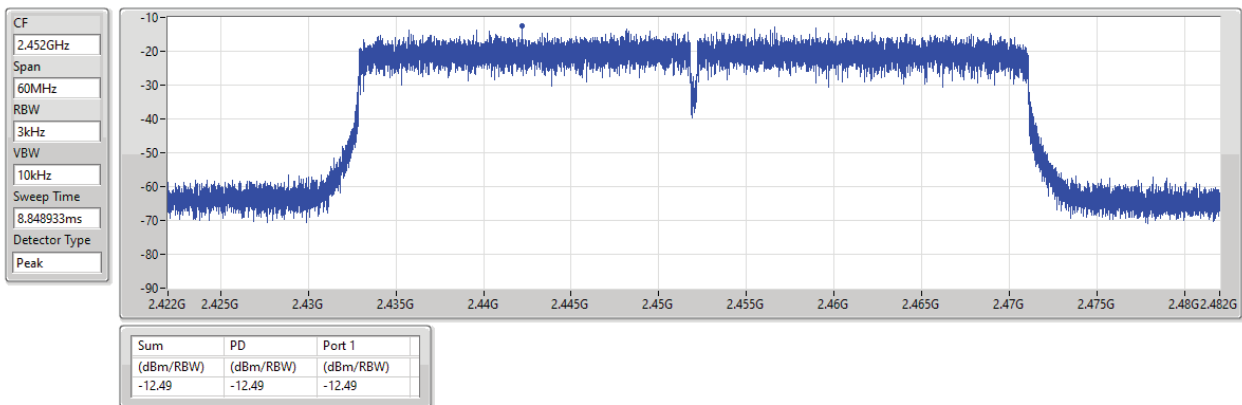


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2452MHz

24/12/2022



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

24/12/2022

CF
2.412GHz

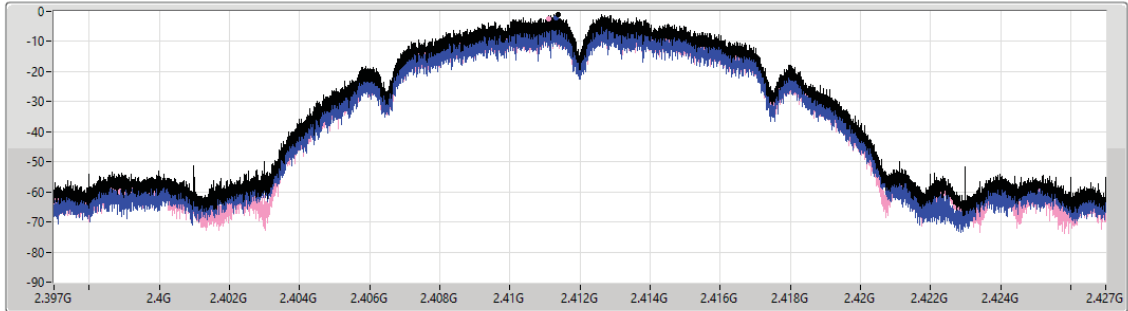
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☒

Port 2 ☒

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
-0.90	-0.90	-2.27	-2.37

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

24/12/2022

CF
2.437GHz

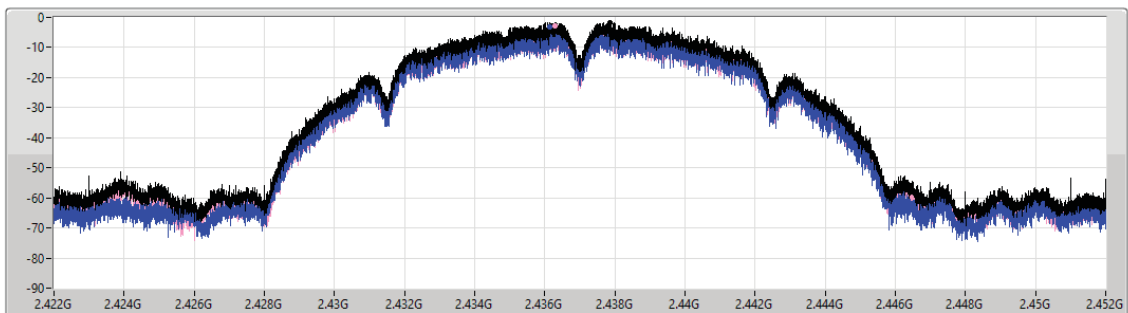
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☒

Port 2 ☒

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
-1.68	-1.68	-2.99	-2.65

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

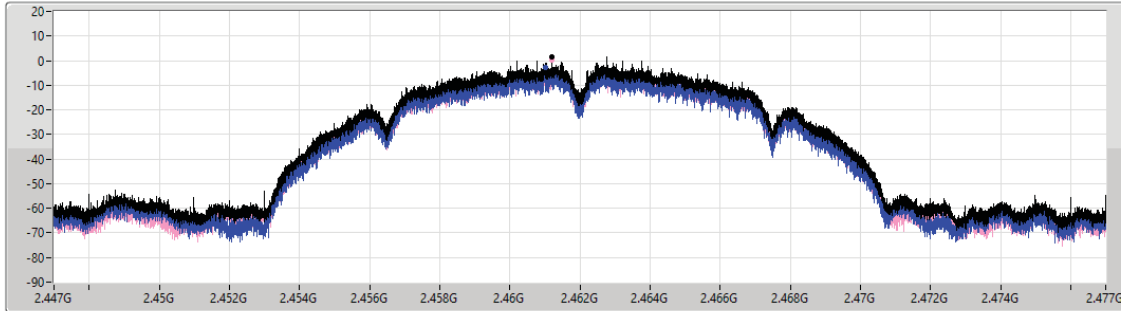
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.36	1.36	-2.63	0.12

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

24/12/2022

CF
2.412GHz

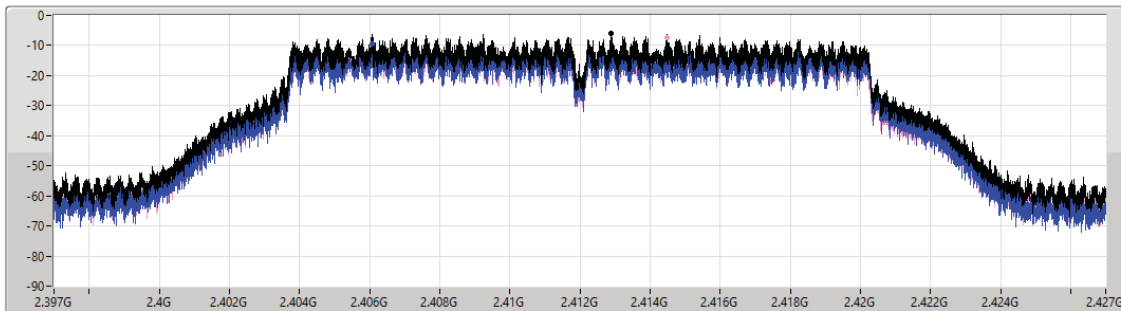
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.02	-6.02	-9.47	-7.28

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

24/12/2022

CF
2.437GHz

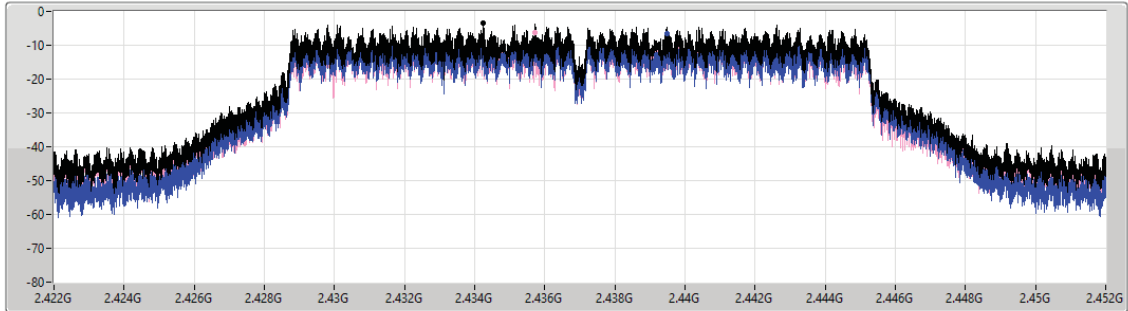
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-3.56	-3.56	-6.46	-6.10

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

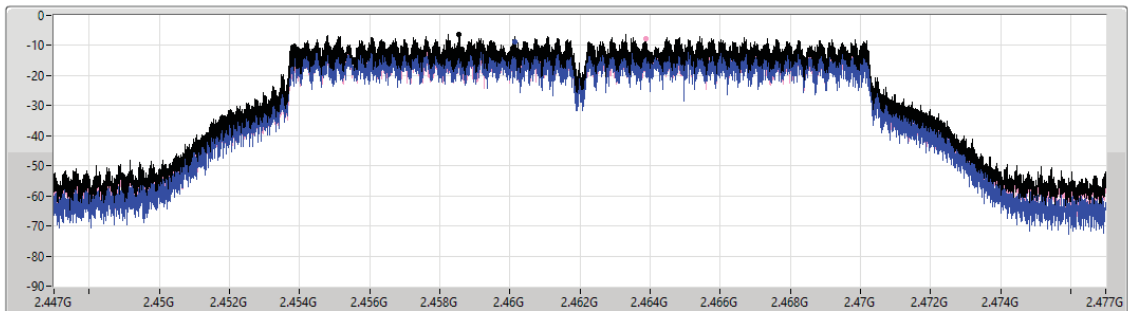
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum ☒

Port 1 ☐

Port 2 ☐

Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-6.31	-6.31	-8.73	-7.68

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

24/12/2022

CF
2.412GHz

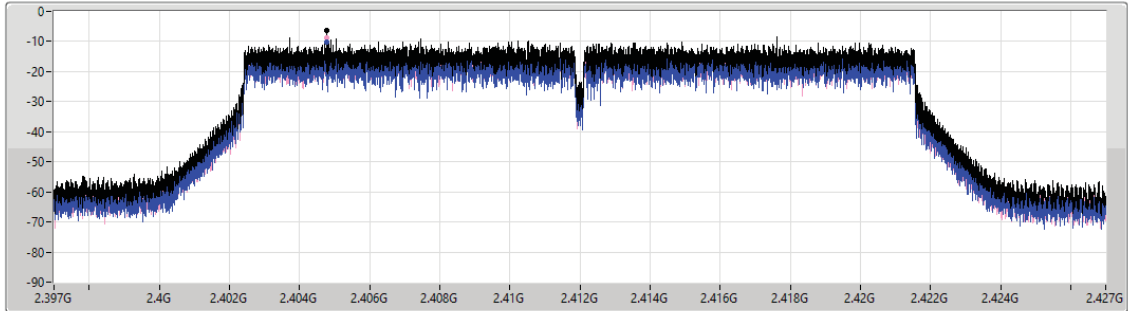
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.31	-6.31	-10.03	-8.71

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

24/12/2022

CF
2.437GHz

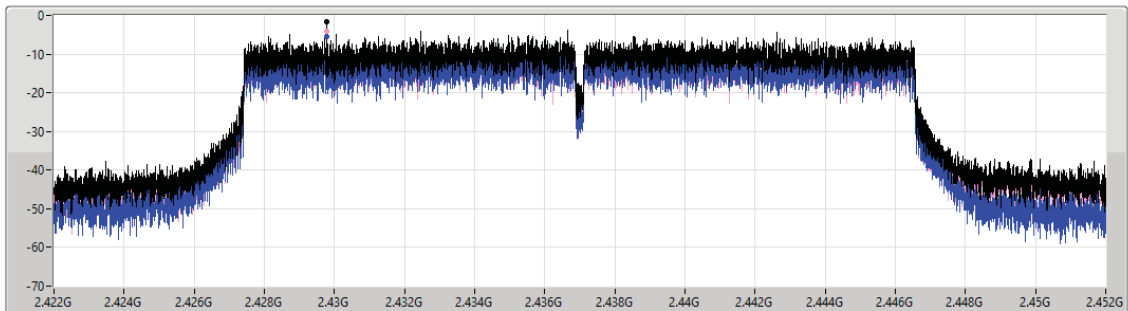
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.76	-1.76	-5.45	-4.19

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

24/12/2022

CF
2.462GHz

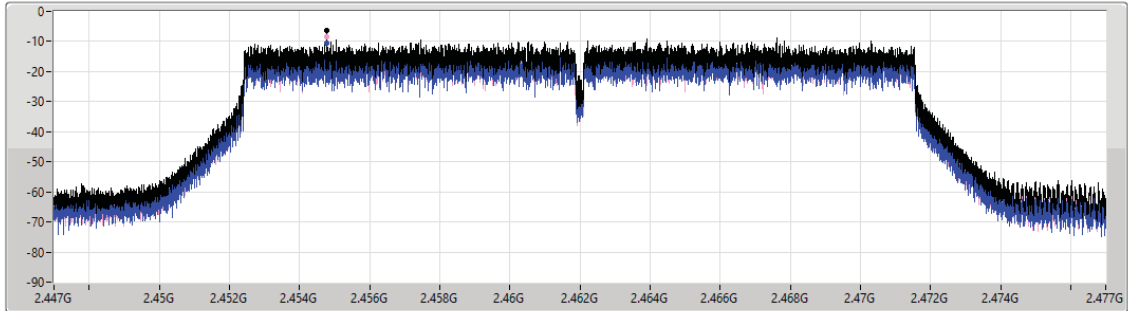
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
4.424357ms

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.36	-6.36	-10.42	-8.52

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

24/12/2022

CF
2.422GHz

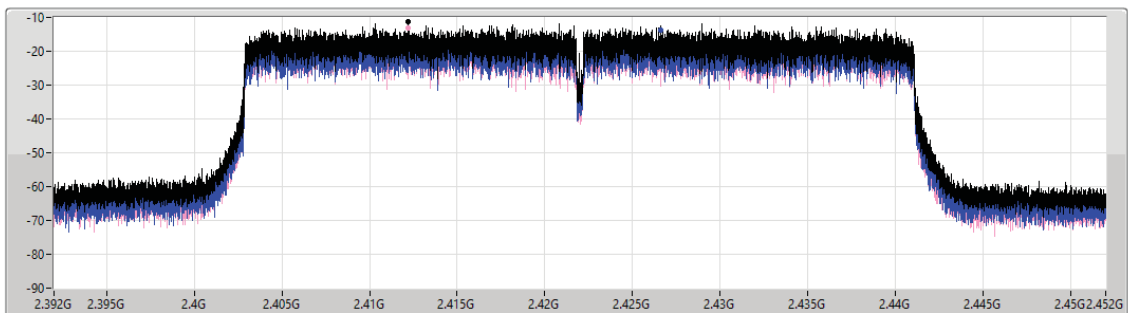
Span
60MHz

RBW
3kHz

VBW
10kHz

Sweep Time
8.848933ms

Detector Type
Peak



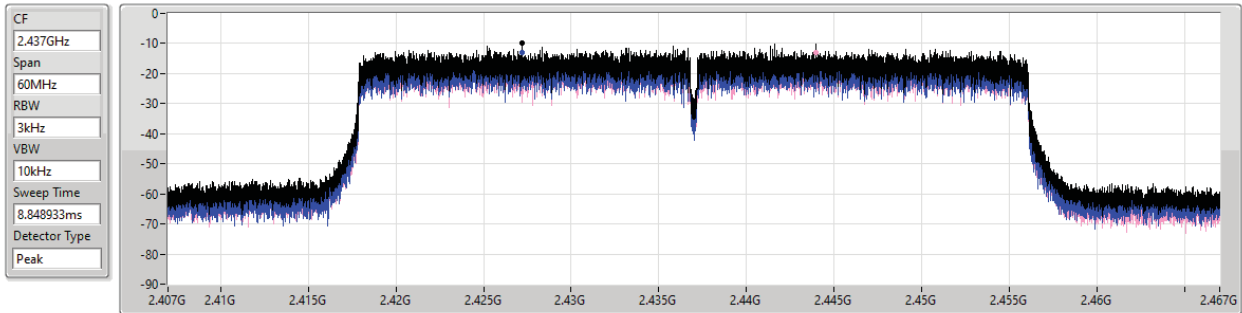
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.12	-11.12	-13.82	-13.02

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

24/12/2022



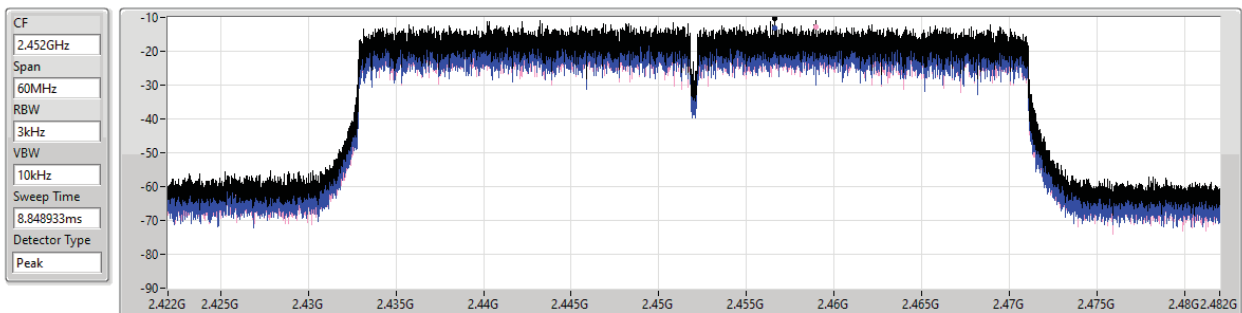
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.96	-9.96	-12.85	-12.85

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

24/12/2022



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-10.36	-10.36	-13.27	-12.81

**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	13.28	-16.72	2.30874G	-54.34	2.4G	-36.30	2.4G	-37.60	2.51526G	-51.99	9.64855G	-39.09	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44208G	8.64	-21.36	2.30059G	-54.26	2.39856G	-24.75	2.4G	-24.50	2.51966G	-50.82	24.75838G	-42.46	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44192G	8.77	-21.23	2.30525G	-54.75	2.39968G	-26.10	2.4G	-26.30	2.51214G	-52.49	24.71062G	-42.15	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43206G	3.86	-26.14	2.30512G	-53.76	2.39952G	-34.71	2.4G	-35.18	2.50014G	-45.72	24.84294G	-41.89	2

**Result**

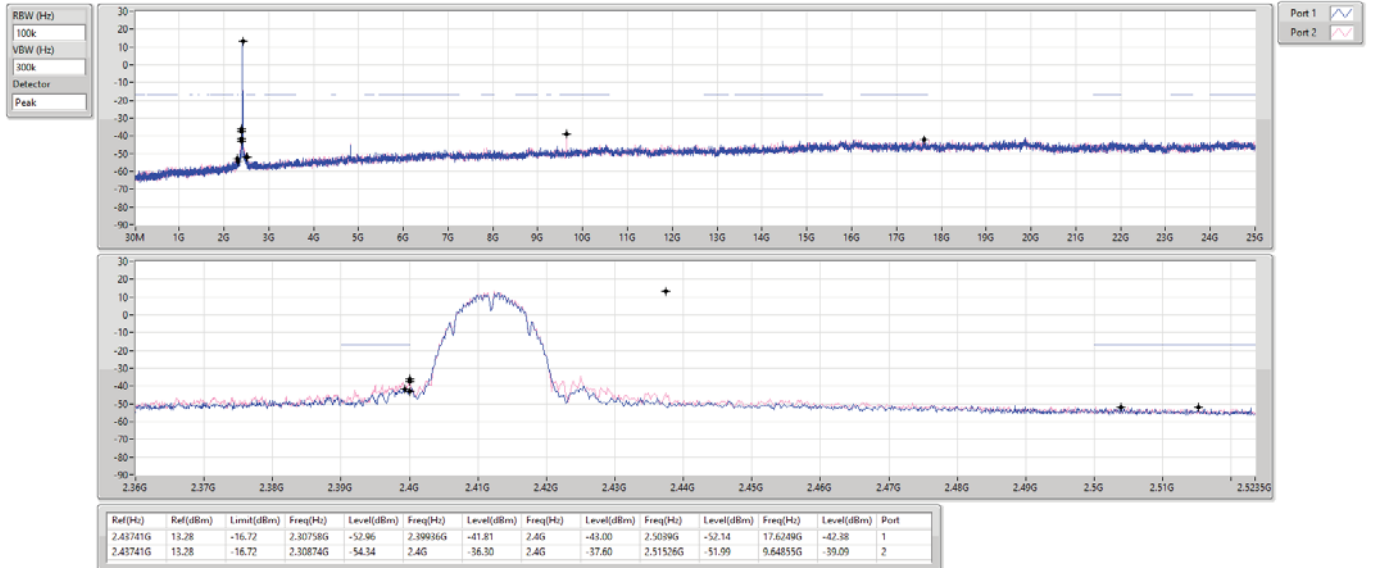
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	13.28	-16.72	2.30758G	-52.96	2.39936G	-41.81	2.4G	-43.00	2.5039G	-52.14	17.6249G	-42.38	1
2412MHz	Pass	2.43741G	13.28	-16.72	2.30874G	-54.34	2.4G	-36.30	2.4G	-37.60	2.51526G	-51.99	9.64855G	-39.09	2
2437MHz	Pass	2.43741G	13.28	-16.72	2.17593G	-54.74	2.39976G	-48.34	2.4G	-49.70	2.5043G	-51.05	24.1178G	-42.51	1
2437MHz	Pass	2.43741G	13.28	-16.72	2.30991G	-54.72	2.392G	-45.95	2.4G	-49.42	2.50078G	-50.29	9.74689G	-41.51	2
2462MHz	Pass	2.43741G	13.28	-16.72	2.30059G	-54.88	2.39336G	-50.92	2.4G	-51.43	2.50398G	-49.06	24.84547G	-42.36	1
2462MHz	Pass	2.43741G	13.28	-16.72	2.30175G	-55.36	2.39952G	-49.28	2.4G	-50.85	2.50254G	-47.87	9.84803G	-40.63	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44208G	8.64	-21.36	2.30758G	-54.66	2.39944G	-29.17	2.4G	-32.02	2.50326G	-52.44	24.17961G	-42.50	1
2412MHz	Pass	2.44208G	8.64	-21.36	2.30059G	-54.26	2.39856G	-24.75	2.4G	-24.50	2.51966G	-50.82	24.75838G	-42.46	2
2437MHz	Pass	2.44208G	8.64	-21.36	2.13865G	-54.77	2.39208G	-43.85	2.4G	-45.30	2.50342G	-50.39	17.63614G	-41.88	1
2437MHz	Pass	2.44208G	8.64	-21.36	2.30292G	-53.48	2.39736G	-40.99	2.4G	-43.47	2.50262G	-48.84	17.34675G	-41.91	2
2462MHz	Pass	2.44208G	8.64	-21.36	2.14564G	-55.41	2.39912G	-51.52	2.4G	-54.09	2.50606G	-50.14	24.49428G	-41.60	1
2462MHz	Pass	2.44208G	8.64	-21.36	2.127G	-55.06	2.39224G	-50.48	2.4G	-52.60	2.5015G	-49.13	24.93257G	-42.18	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	8.77	-21.23	1.93012G	-54.53	2.39944G	-29.20	2.4G	-29.67	2.51942G	-52.60	16.88036G	-42.22	1
2412MHz	Pass	2.44192G	8.77	-21.23	2.30525G	-54.75	2.39968G	-26.10	2.4G	-26.30	2.51214G	-52.49	24.71062G	-42.15	2
2437MHz	Pass	2.44192G	8.77	-21.23	2.14098G	-55.19	2.39816G	-44.40	2.4G	-43.26	2.50134G	-49.21	16.35779G	-42.10	1
2437MHz	Pass	2.44192G	8.77	-21.23	2.13749G	-54.63	2.39896G	-39.76	2.4G	-40.99	2.5019G	-48.49	24.80052G	-41.58	2
2462MHz	Pass	2.44192G	8.77	-21.23	2.30641G	-55.05	2.3956G	-52.55	2.4G	-54.02	2.51206G	-50.84	24.55609G	-42.64	1
2462MHz	Pass	2.44192G	8.77	-21.23	2.30641G	-55.03	2.3964G	-52.07	2.4G	-54.04	2.50006G	-48.96	15.34072G	-42.68	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43206G	3.86	-26.14	2.3097G	-53.38	2.396G	-37.97	2.4G	-40.88	2.51134G	-50.53	24.07169G	-42.43	1
2422MHz	Pass	2.43206G	3.86	-26.14	2.30741G	-53.17	2.39648G	-36.68	2.4G	-37.71	2.50318G	-50.61	24.57651G	-40.71	2
2437MHz	Pass	2.43206G	3.86	-26.14	2.30283G	-52.57	2.39824G	-36.37	2.4G	-38.89	2.50014G	-45.85	24.58492G	-42.44	1
2437MHz	Pass	2.43206G	3.86	-26.14	2.30512G	-53.76	2.39952G	-34.71	2.4G	-35.18	2.50014G	-45.72	24.84294G	-41.89	2
2452MHz	Pass	2.43206G	3.86	-26.14	2.3097G	-53.91	2.39504G	-48.03	2.4G	-49.86	2.50014G	-47.18	24.62419G	-41.92	1
2452MHz	Pass	2.43206G	3.86	-26.14	2.30512G	-54.66	2.39024G	-49.98	2.4G	-50.60	2.50094G	-46.52	24.48957G	-42.32	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2412MHz

24/12/2022

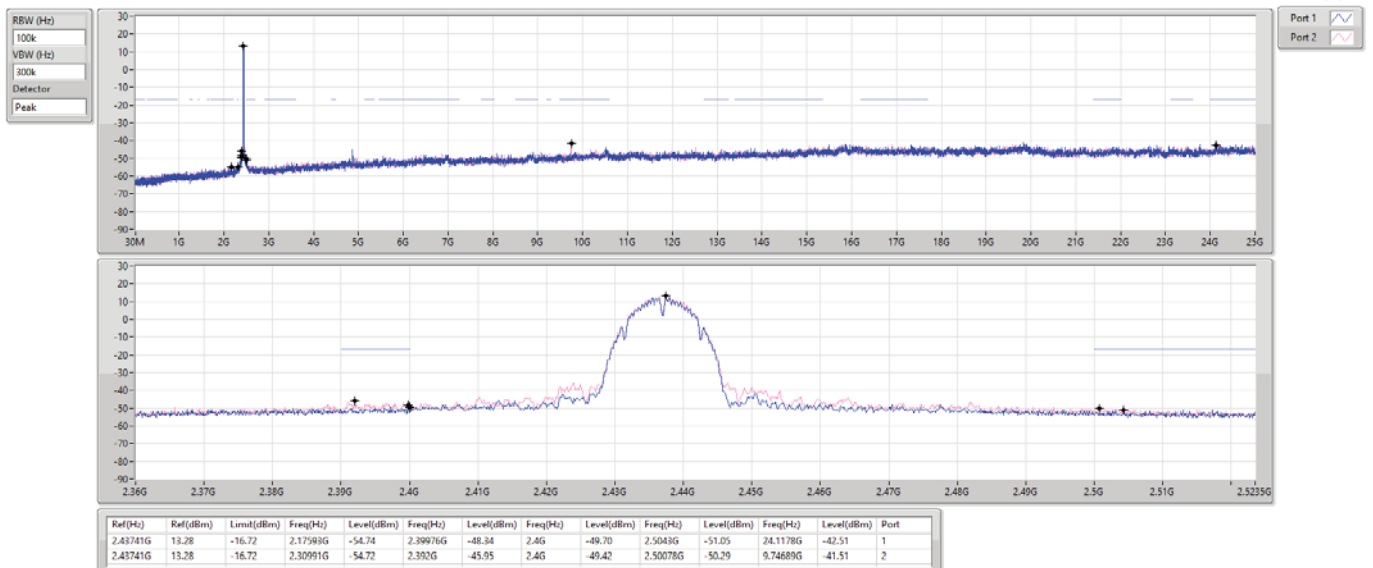


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

24/12/2022

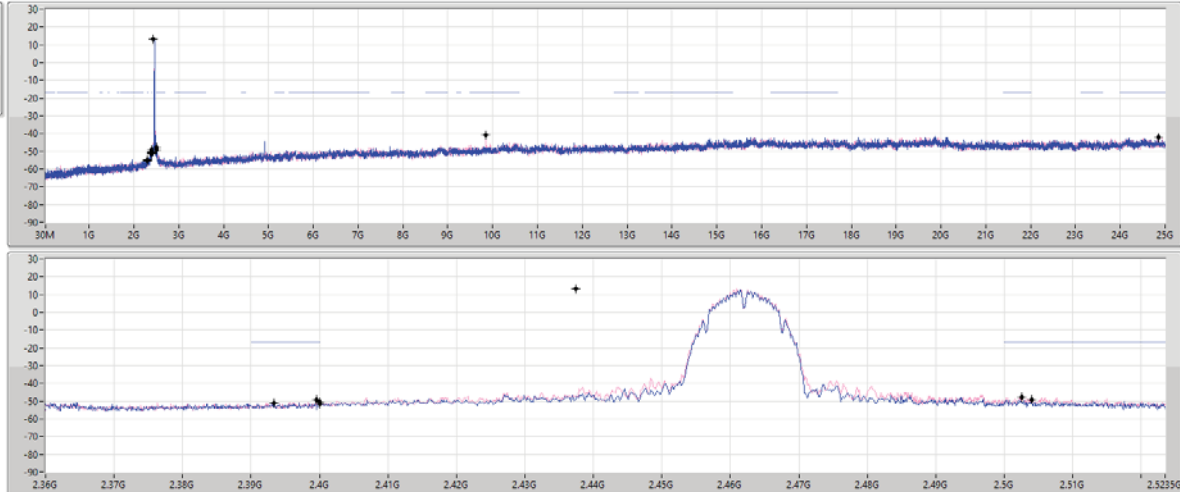


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2462MHz

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

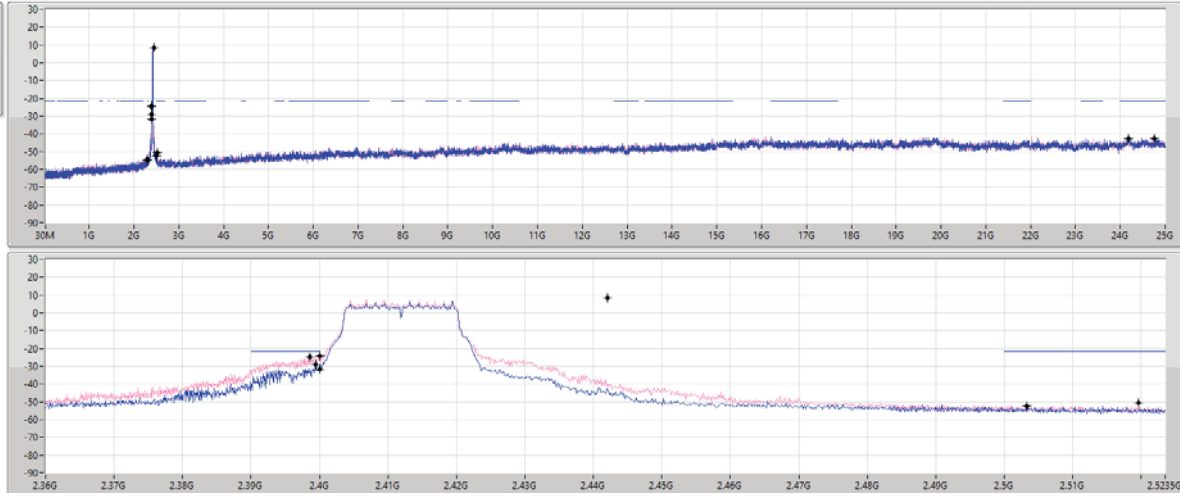


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

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

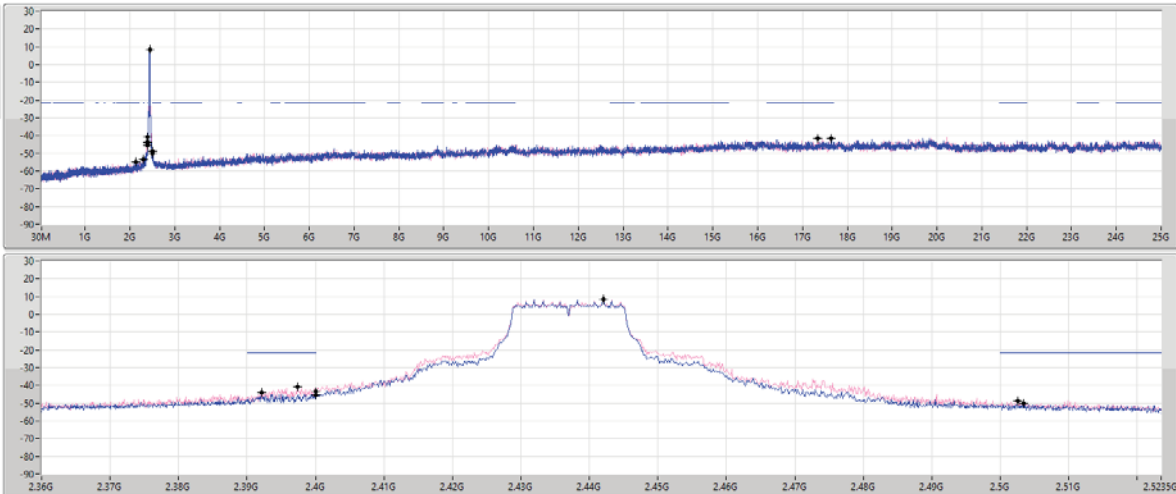


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2437MHz

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



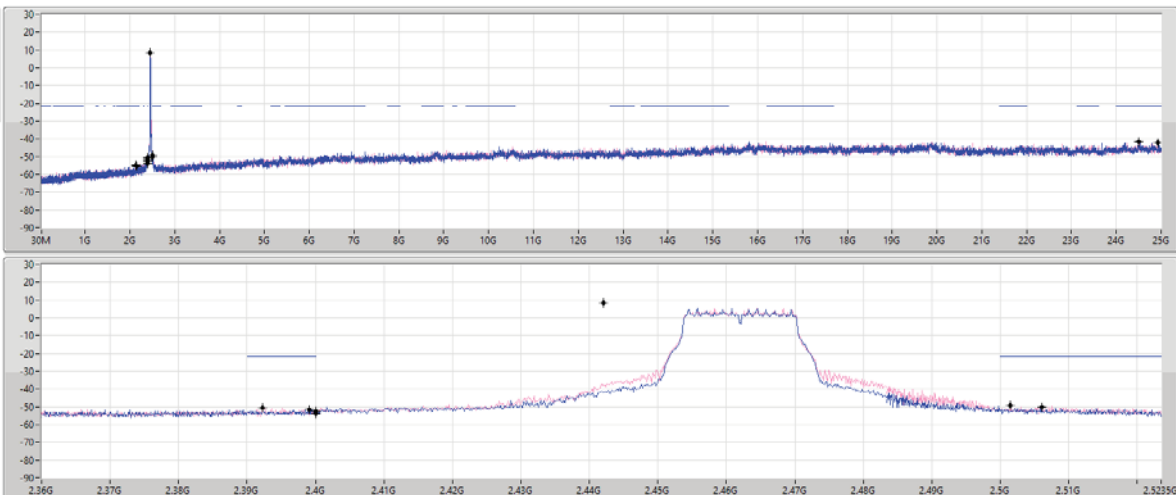
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44208G	8.64	-21.36	2.13865G	-54.77	2.39208G	-43.85	2.4G	-45.30	2.50342G	-50.39	17.63614G	-41.88	1
2.44208G	8.64	-21.36	2.30292G	-53.48	2.39736G	-40.99	2.4G	-43.47	2.50262G	-48.84	17.34675G	-41.91	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2462MHz

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



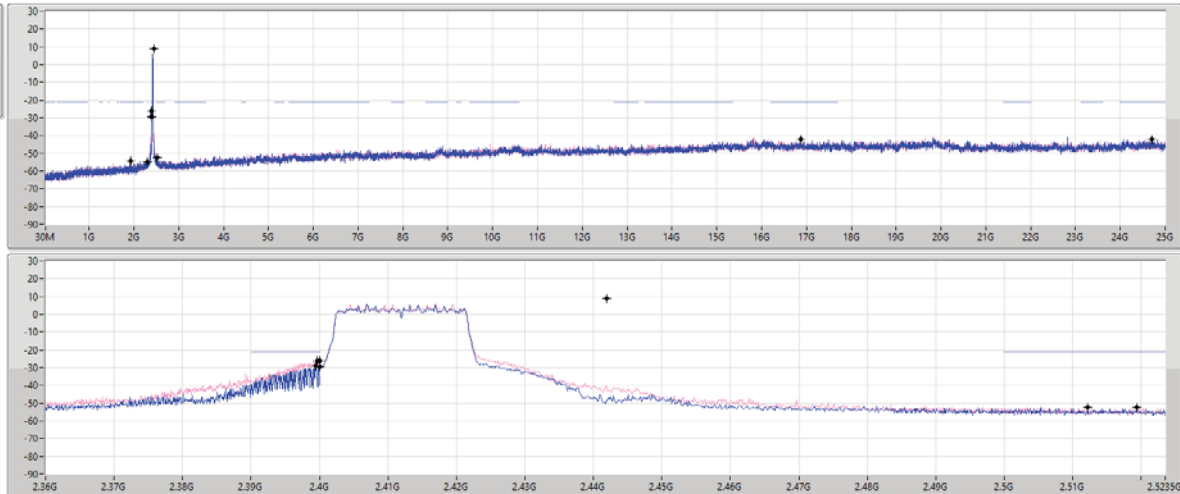
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44208G	8.64	-21.36	2.14564G	-55.41	2.39912G	-51.52	2.4G	-54.09	2.50606G	-50.14	24.49428G	-41.60	1
2.44208G	8.64	-21.36	2.127G	-55.06	2.39274G	-50.48	2.4G	-52.60	2.5015G	-49.13	24.93257G	-42.18	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2412MHz

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



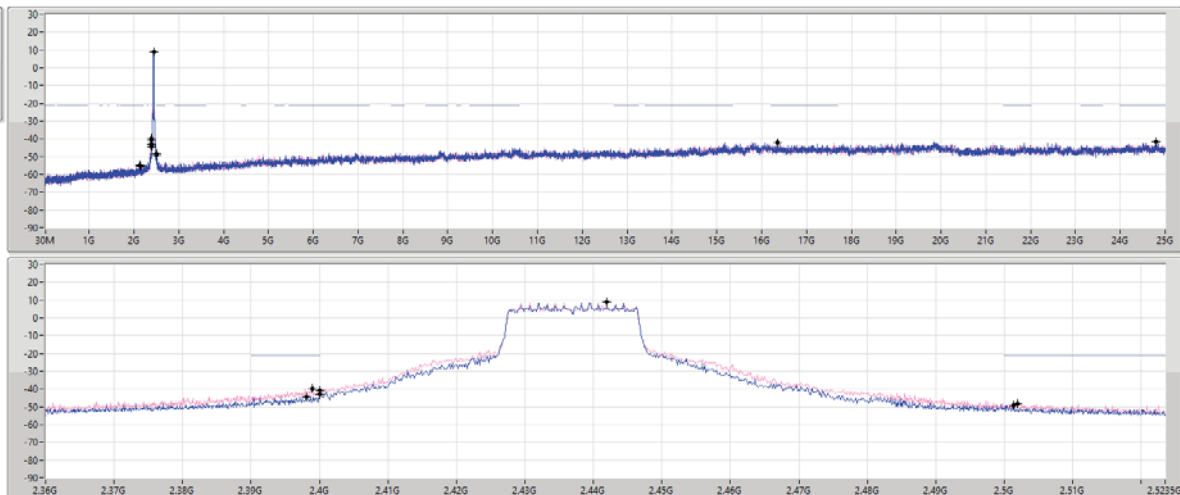
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	8.77	-21.23	1.93012G	-54.53	2.39944G	-29.20	2.4G	-29.67	2.51942G	-52.60	16.88036G	-42.22	1
2.44192G	8.77	-21.23	2.30525G	-54.75	2.39968G	-26.10	2.4G	-26.30	2.51214G	-52.49	24.71062G	-42.15	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2437MHz

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



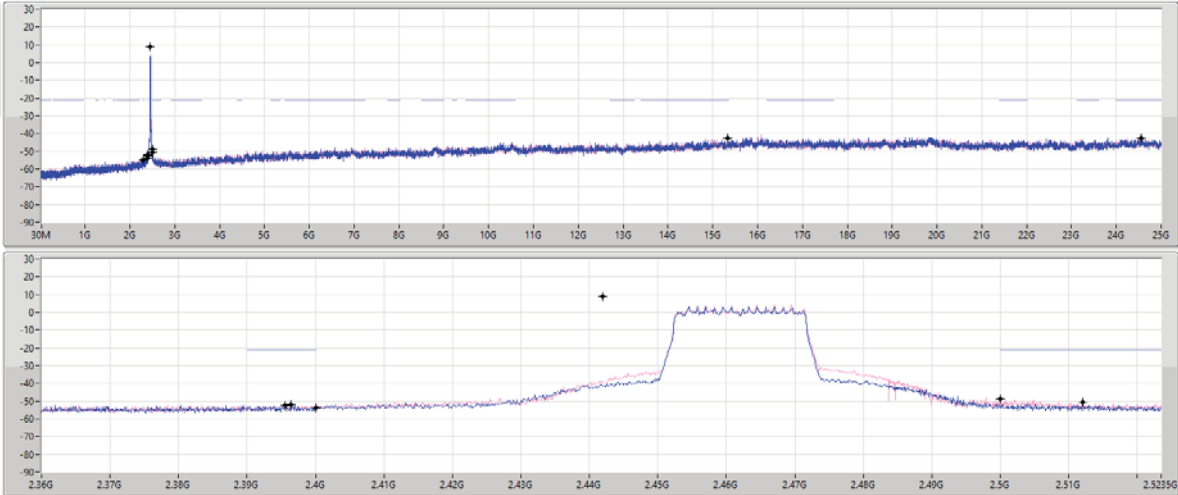
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	8.77	-21.23	2.14086G	-55.19	2.39816G	-44.40	2.4G	-43.26	2.50134G	-49.21	16.35779G	-42.10	1
2.44192G	8.77	-21.23	2.13749G	-54.63	2.39896G	-39.76	2.4G	-40.99	2.5019G	-48.49	24.80052G	-41.58	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSEndB

2462MHz

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



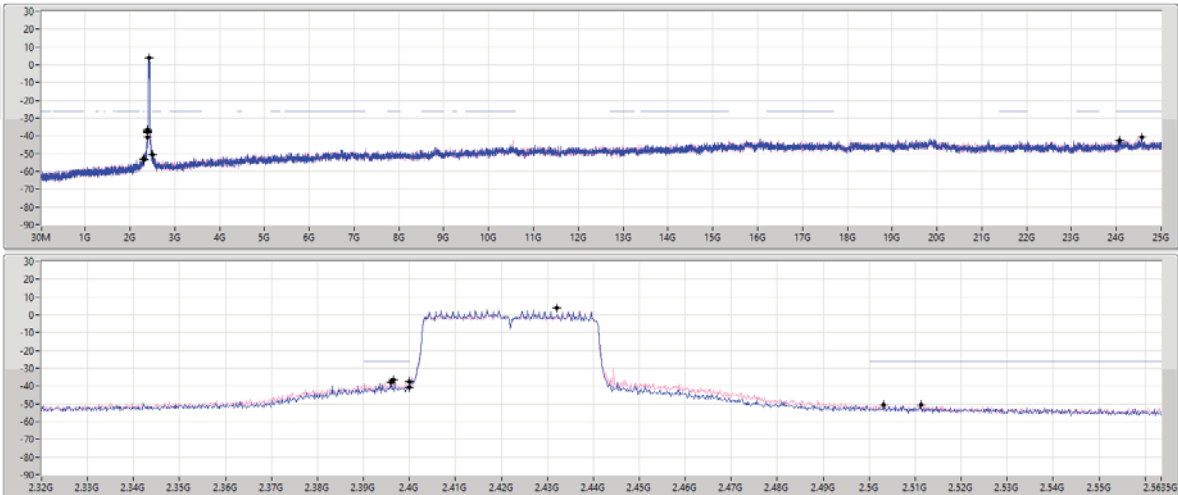
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	8.77	-21.23	2.30641G	-55.05	2.3956G	-52.55	2.4G	-54.02	2.51206G	-50.84	2.55609G	-42.64	1
2.44192G	8.77	-21.23	2.30641G	-55.05	2.3956G	-52.07	2.4G	-54.04	2.50006G	-48.96	15.34072G	-42.68	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSEndB

2422MHz

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
2.43206G	3.86	-26.14	2.3076G	-53.38	2.396G	-47.97	2.4G	-40.98	2.51126G	-50.53	2.57169G	-42.43	1
2.43206G	3.86	-26.14	2.30741G	-53.17	2.39548G	-36.68	2.4G	-37.71	2.50318G	-50.61	2.57851G	-40.71	2

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

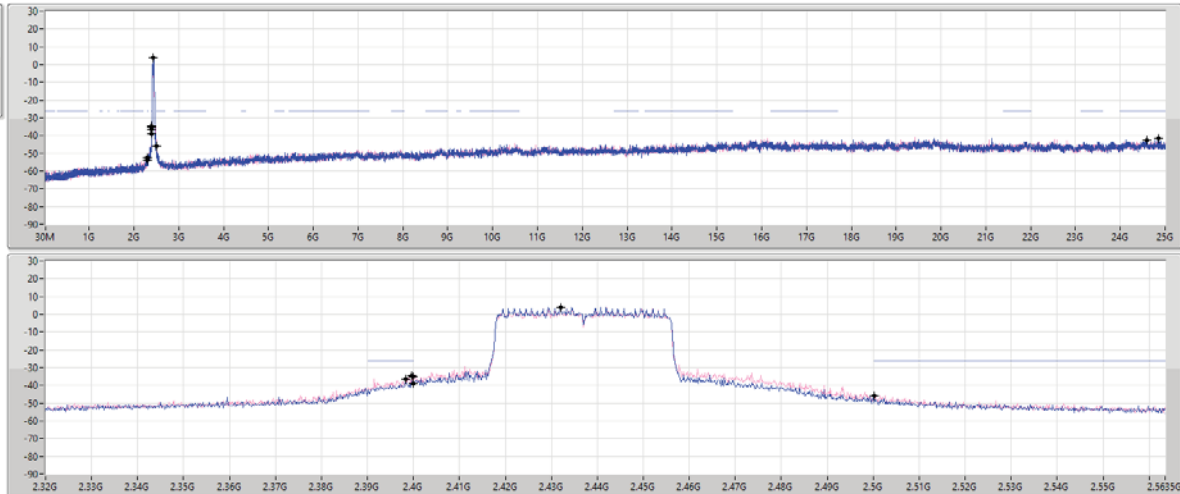
CSEndB

2437MHz

24/12/2022

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

Port 1
Port 2



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
2.43206G	3.86	-26.14	2.30283G	-52.57	2.39824G	-36.37	2.4G	-38.89	2.50014G	-45.85	24.58492G	-42.44	1
2.43206G	3.86	-26.14	2.30512G	-53.76	2.39952G	-34.71	2.4G	-35.18	2.50014G	-45.72	24.84294G	-41.89	2

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

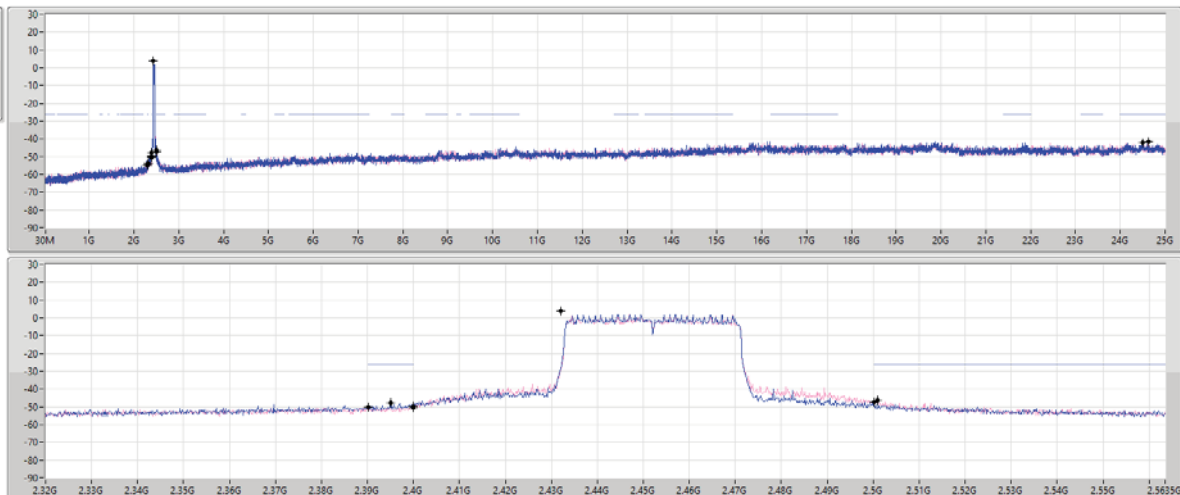
CSEndB

2452MHz

24/12/2022

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

Port 1
Port 2



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
2.43206G	3.86	-26.14	2.3097G	-53.91	2.39504G	-48.03	2.4G	-49.86	2.50014G	-47.18	24.62419G	-41.92	1
2.43206G	3.86	-26.14	2.30512G	-54.66	2.39024G	-49.08	2.4G	-50.60	2.50094G	-46.52	24.48957G	-42.32	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)_1TX	Pass	2.43741G	12.01	-17.99	2.30758G	-55.44	2.39648G	-44.54	2.4G	-47.99	2.50702G	-51.68	24.51395G	-43.08	1
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43641G	12.53	-17.47	2.30292G	-54.70	2.39904G	-38.59	2.4G	-38.66	2.51302G	-52.20	21.85329G	-42.57	2
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43073G	7.85	-22.15	2.30175G	-53.83	2.4G	-34.57	2.4G	-37.87	2.5055G	-52.25	24.6488G	-42.32	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44192G	8.60	-21.40	2.30175G	-54.68	2.39984G	-30.22	2.4G	-31.73	2.50062G	-52.44	24.85952G	-42.37	2
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.43073G	7.78	-22.22	2.14914G	-54.90	2.39992G	-35.73	2.4G	-36.29	2.50118G	-52.83	24.15432G	-41.25	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44192G	8.99	-21.01	2.30292G	-55.14	2.39992G	-34.55	2.4G	-34.52	2.5179G	-53.20	24.61228G	-41.80	2
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	2.4344G	2.15	-27.85	2.30283G	-54.85	2.39968G	-41.63	2.4G	-43.23	2.50078G	-49.20	21.87572G	-42.79	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.4319G	2.10	-27.90	1.91696G	-55.93	2.39952G	-41.22	2.4G	-42.26	2.5043G	-50.83	17.15283G	-42.27	2



Result

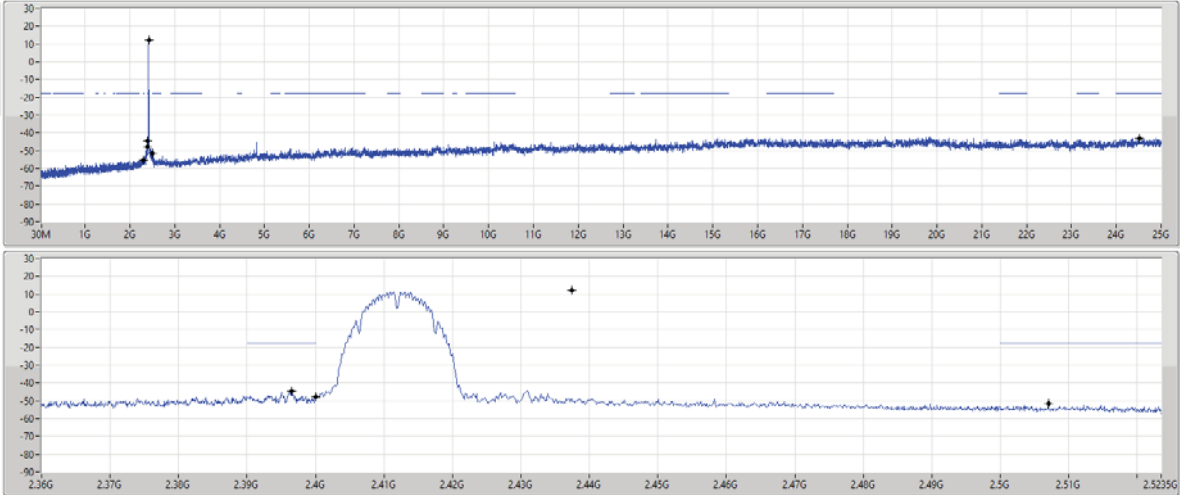
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	12.01	-17.99	2.30758G	-55.44	2.39648G	-44.54	2.4G	-47.99	2.50702G	-51.68	24.51395G	-43.08	1
2437MHz	Pass	2.43741G	12.01	-17.99	2.30292G	-55.65	2.39576G	-49.09	2.4G	-50.07	2.51774G	-51.53	24.62633G	-42.41	1
2462MHz	Pass	2.43741G	12.01	-17.99	2.30758G	-54.73	2.398G	-51.22	2.4G	-52.25	2.50406G	-49.97	24.14308G	-42.26	1
802.11g_Nss1(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	7.85	-22.15	2.30175G	-53.83	2.4G	-34.57	2.4G	-37.87	2.5055G	-52.25	24.6488G	-42.32	1
2437MHz	Pass	2.43073G	7.85	-22.15	2.30758G	-54.28	2.39968G	-45.95	2.4G	-46.83	2.50622G	-50.00	24.17399G	-40.74	1
2462MHz	Pass	2.43073G	7.85	-22.15	2.18991G	-54.60	2.39864G	-50.33	2.4G	-50.81	2.50166G	-49.39	24.5589G	-42.66	1
802.11ax HEW20_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	7.78	-22.22	2.14914G	-54.90	2.39992G	-35.73	2.4G	-36.29	2.50118G	-52.83	24.15432G	-41.25	1
2437MHz	Pass	2.43073G	7.78	-22.22	2.30641G	-54.27	2.39592G	-44.18	2.4G	-45.57	2.5067G	-50.16	16.87475G	-41.58	1
2462MHz	Pass	2.43073G	7.78	-22.22	2.19341G	-54.70	2.4G	-51.27	2.4G	-52.50	2.5003G	-48.13	24.52518G	-42.68	1
802.11ax HEW40_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4344G	2.15	-27.85	2.30168G	-55.26	2.39952G	-43.40	2.4G	-44.93	2.50398G	-50.85	24.83173G	-42.85	1
2437MHz	Pass	2.4344G	2.15	-27.85	2.30283G	-54.85	2.39968G	-41.63	2.4G	-43.23	2.50078G	-49.20	21.87572G	-42.79	1
2452MHz	Pass	2.4344G	2.15	-27.85	2.30512G	-53.76	2.39744G	-47.67	2.4G	-49.15	2.50126G	-45.67	16.29744G	-42.29	1
802.11b_Nss1(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	12.53	-17.47	2.16894G	-54.12	2.4G	-40.59	2.4G	-42.42	2.50662G	-52.48	24.38471G	-41.95	1
2412MHz	Pass	2.43641G	12.53	-17.47	2.30292G	-54.70	2.39904G	-38.59	2.4G	-38.66	2.51302G	-52.20	21.85329G	-42.57	2
2437MHz	Pass	2.43641G	12.53	-17.47	2.30292G	-54.61	2.39952G	-49.34	2.4G	-51.24	2.50398G	-51.08	16.37183G	-42.43	1
2437MHz	Pass	2.43641G	12.53	-17.47	2.18642G	-55.05	2.39152G	-47.48	2.4G	-50.98	2.50086G	-50.12	24.52237G	-42.89	2
2462MHz	Pass	2.43641G	12.53	-17.47	1.9173G	-55.01	2.396G	-49.93	2.4G	-51.96	2.50502G	-48.79	16.83541G	-41.65	1
2462MHz	Pass	2.43641G	12.53	-17.47	2.30525G	-55.33	2.39792G	-50.85	2.4G	-52.03	2.5083G	-49.96	24.41561G	-41.28	2
802.11g_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	8.60	-21.40	2.30874G	-55.58	2.39992G	-37.35	2.4G	-38.15	2.50438G	-52.98	21.82238G	-42.36	1
2412MHz	Pass	2.44192G	8.60	-21.40	2.30175G	-54.68	2.39984G	-30.22	2.4G	-31.73	2.50062G	-52.44	24.85952G	-42.37	2
2437MHz	Pass	2.44192G	8.60	-21.40	2.30059G	-54.26	2.39408G	-46.21	2.4G	-47.42	2.50558G	-50.30	24.10094G	-42.55	1
2437MHz	Pass	2.44192G	8.60	-21.40	2.30758G	-54.28	2.3992G	-41.62	2.4G	-42.63	2.50318G	-49.74	16.22012G	-40.96	2
2462MHz	Pass	2.44192G	8.60	-21.40	2.30525G	-54.86	2.39968G	-50.47	2.4G	-51.50	2.50974G	-50.11	24.17399G	-41.65	1
2462MHz	Pass	2.44192G	8.60	-21.40	1.96973G	-53.96	2.39512G	-50.91	2.4G	-52.88	2.50606G	-50.38	24.52799G	-42.33	2
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	8.99	-21.01	2.19108G	-55.87	2.39992G	-38.99	2.4G	-38.62	2.50222G	-52.98	21.82238G	-42.22	1
2412MHz	Pass	2.44192G	8.99	-21.01	2.30292G	-55.14	2.39992G	-34.55	2.4G	-34.52	2.5179G	-53.20	24.61228G	-41.80	2
2437MHz	Pass	2.44192G	8.99	-21.01	2.30874G	-53.68	2.39944G	-45.32	2.4G	-45.50	2.51822G	-50.46	24.09532G	-42.89	1
2437MHz	Pass	2.44192G	8.99	-21.01	2.19457G	-55.06	2.39976G	-40.86	2.4G	-41.38	2.50406G	-48.32	16.43926G	-42.59	2
2462MHz	Pass	2.44192G	8.99	-21.01	2.30874G	-52.97	2.39856G	-52.51	2.4G	-53.50	2.50622G	-51.53	24.83143G	-42.20	1
2462MHz	Pass	2.44192G	8.99	-21.01	2.10137G	-54.39	2.39512G	-51.91	2.4G	-53.37	2.51006G	-51.03	24.23018G	-42.57	2
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4319G	2.10	-27.90	2.30054G	-55.21	2.39952G	-42.00	2.4G	-44.69	2.51982G	-51.70	15.10831G	-41.89	1
2422MHz	Pass	2.4319G	2.10	-27.90	2.30626G	-55.07	2.39328G	-43.36	2.4G	-43.79	2.51198G	-52.21	24.76722G	-42.74	2
2437MHz	Pass	2.4319G	2.10	-27.90	2.08413G	-54.88	2.39968G	-41.51	2.4G	-44.22	2.5051G	-50.77	16.37317G	-42.44	1
2437MHz	Pass	2.4319G	2.10	-27.90	1.91696G	-55.93	2.39952G	-41.22	2.4G	-42.26	2.5043G	-50.83	17.15283G	-42.27	2
2452MHz	Pass	2.4319G	2.10	-27.90	2.30741G	-54.80	2.39936G	-47.80	2.4G	-48.60	2.5011G	-48.71	24.43909G	-41.95	1
2452MHz	Pass	2.4319G	2.10	-27.90	2.30512G	-54.98	2.39808G	-48.14	2.4G	-50.12	2.5003G	-47.65	24.1979G	-41.99	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

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



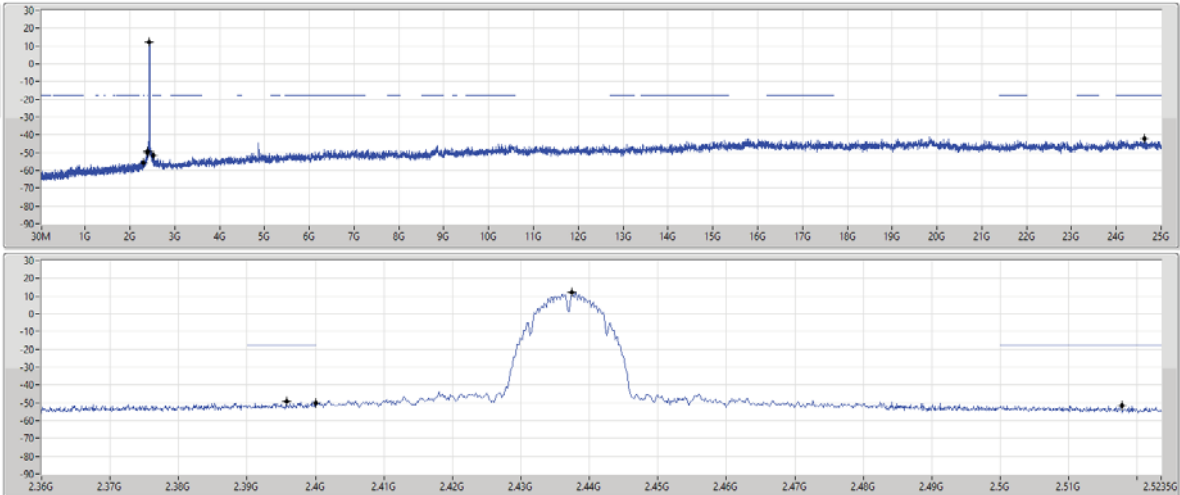
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43741G	12.01	-17.99	2.30758G	-55.44	2.39648G	-44.54	2.4G	-47.99	2.50702G	-51.68	2.51395G	-43.08	1

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2437MHz

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

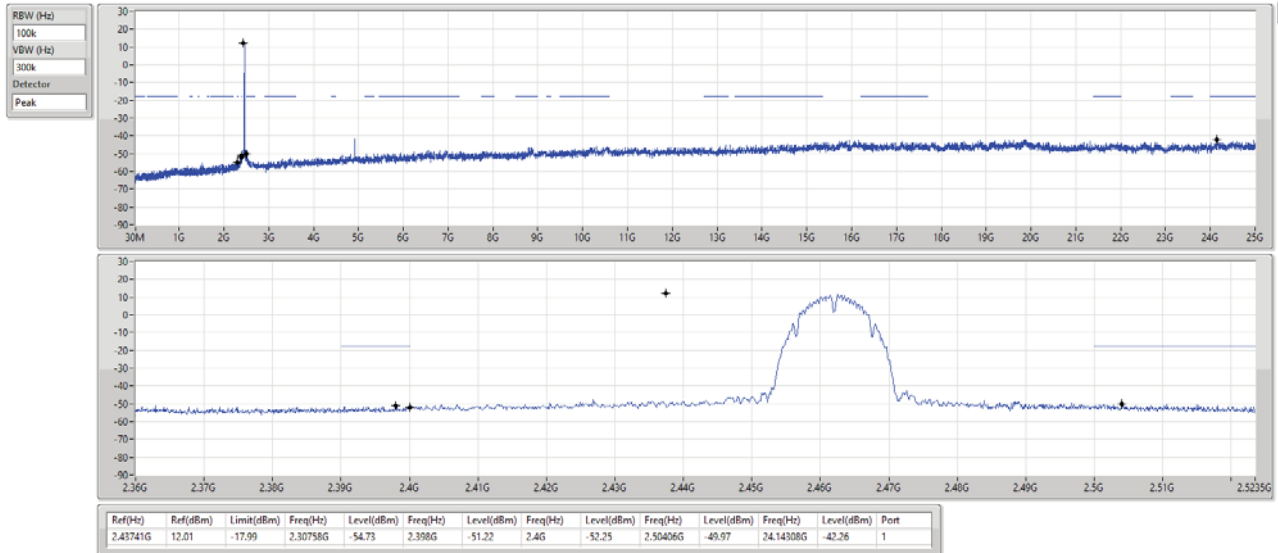


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43741G	12.01	-17.99	2.30292G	-55.65	2.39578G	-49.09	2.4G	-50.07	2.51774G	-51.53	2.52833G	-42.41	1

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

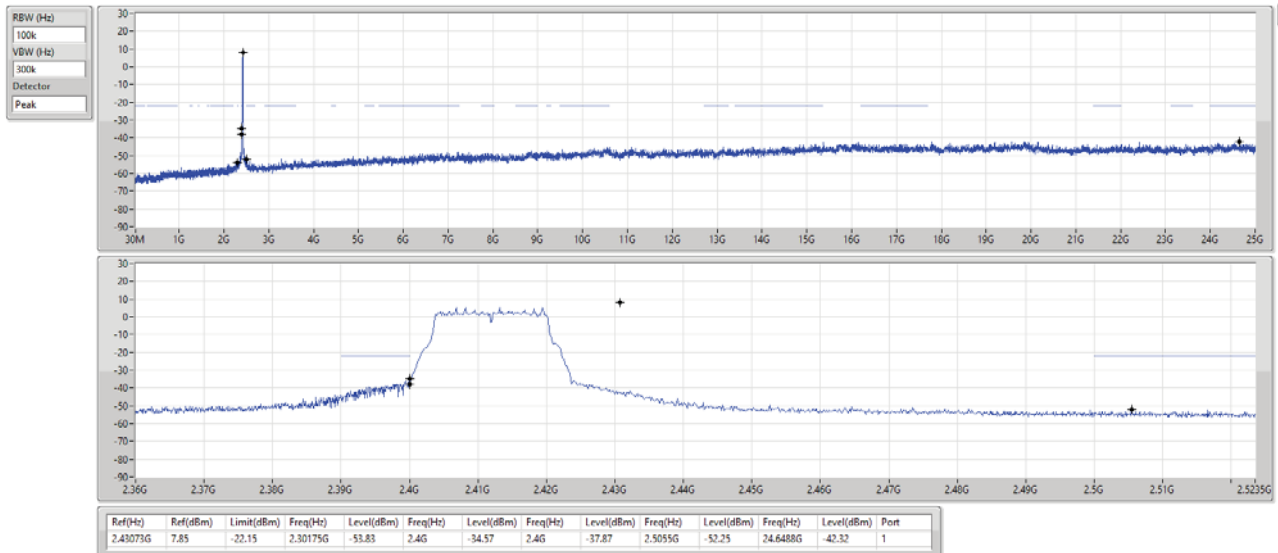
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

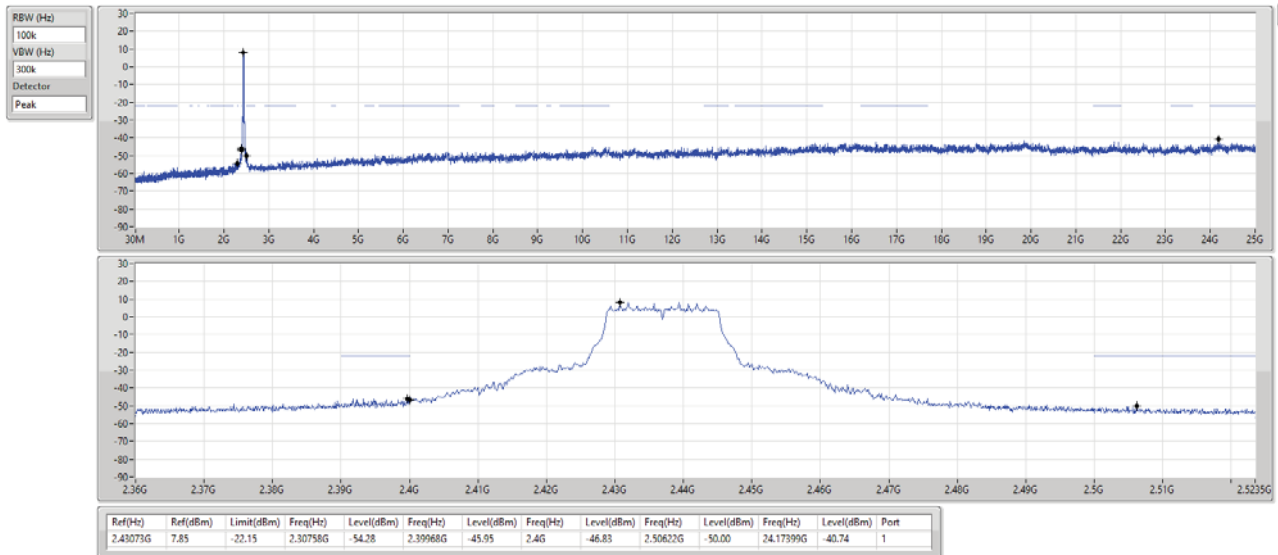
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

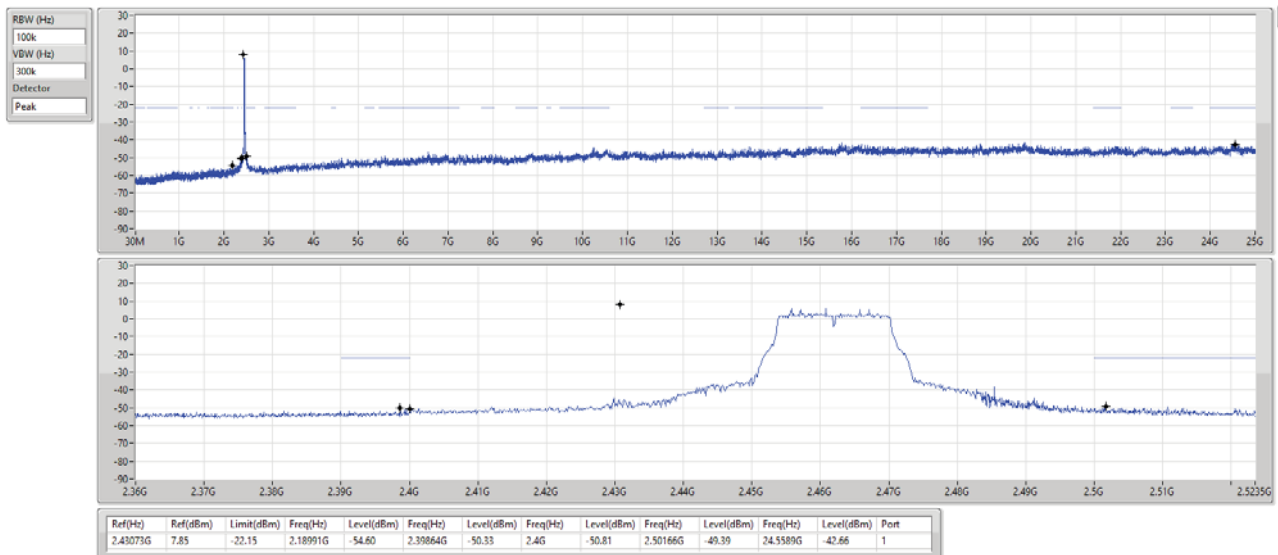
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

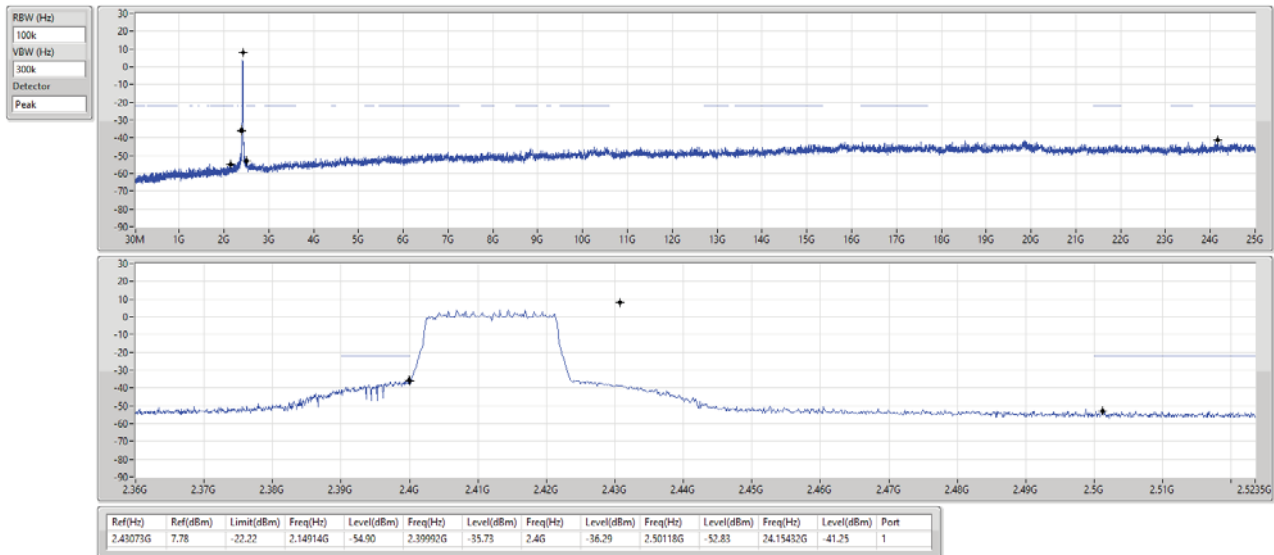
2462MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

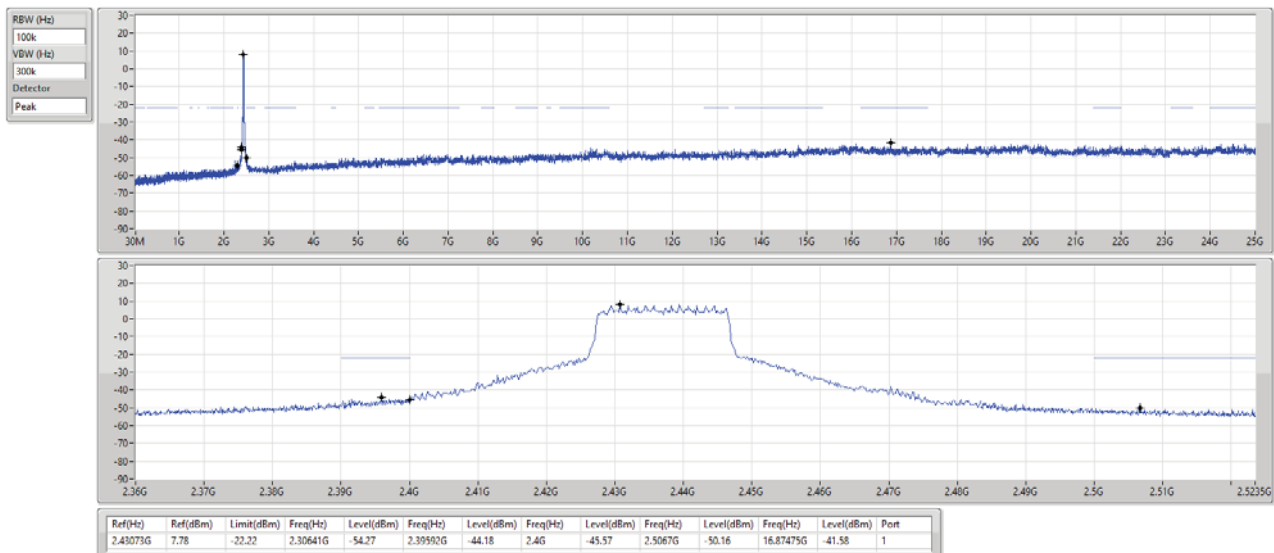
2412MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

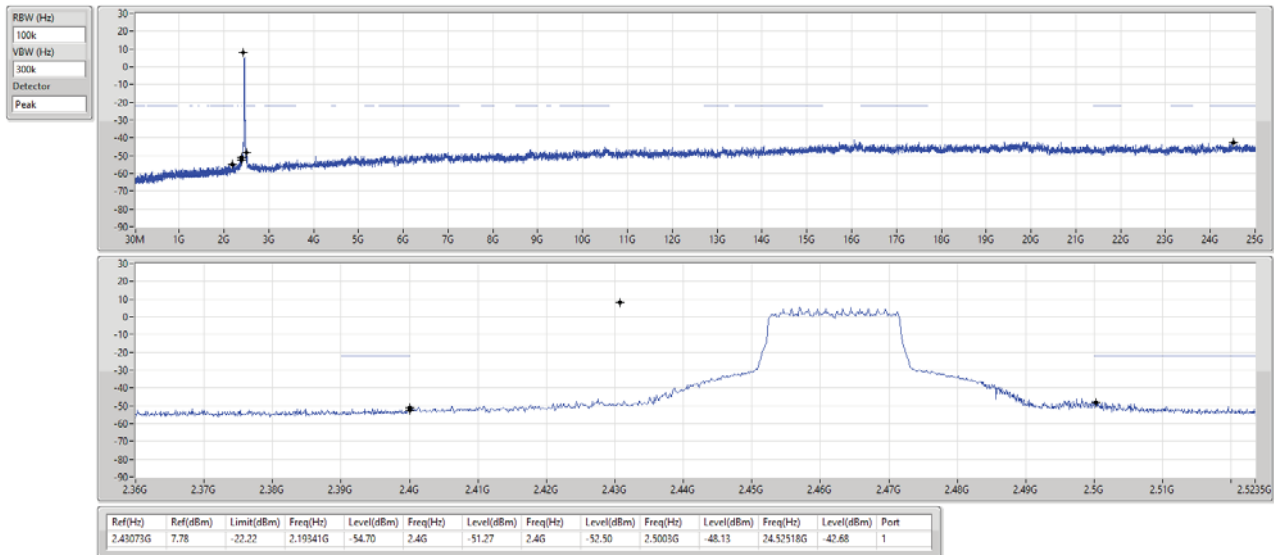
2437MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

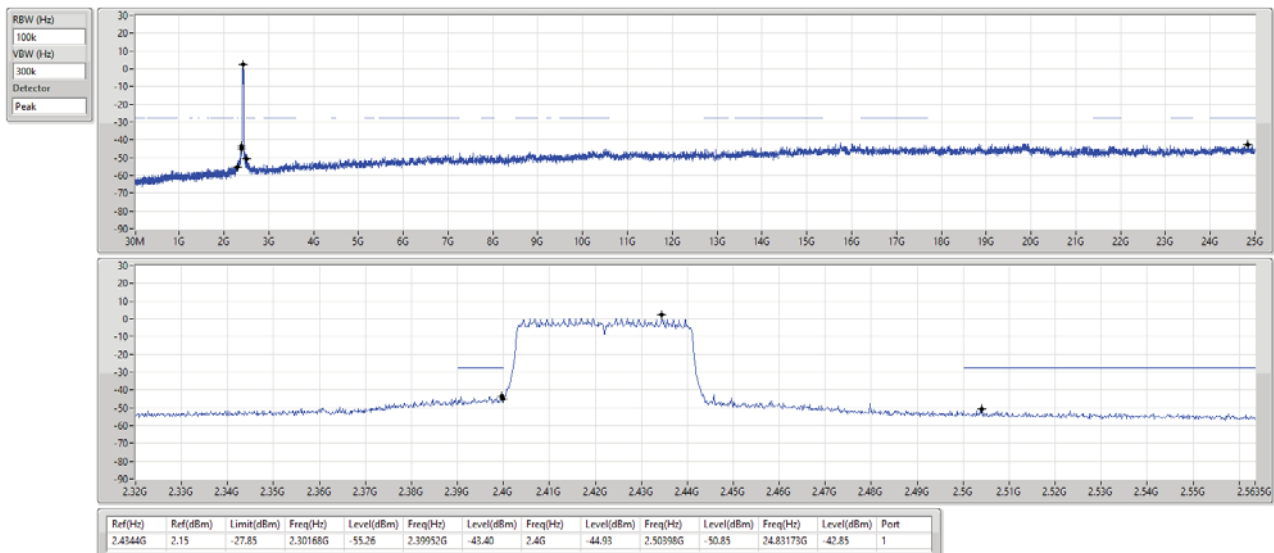
2462MHz



2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

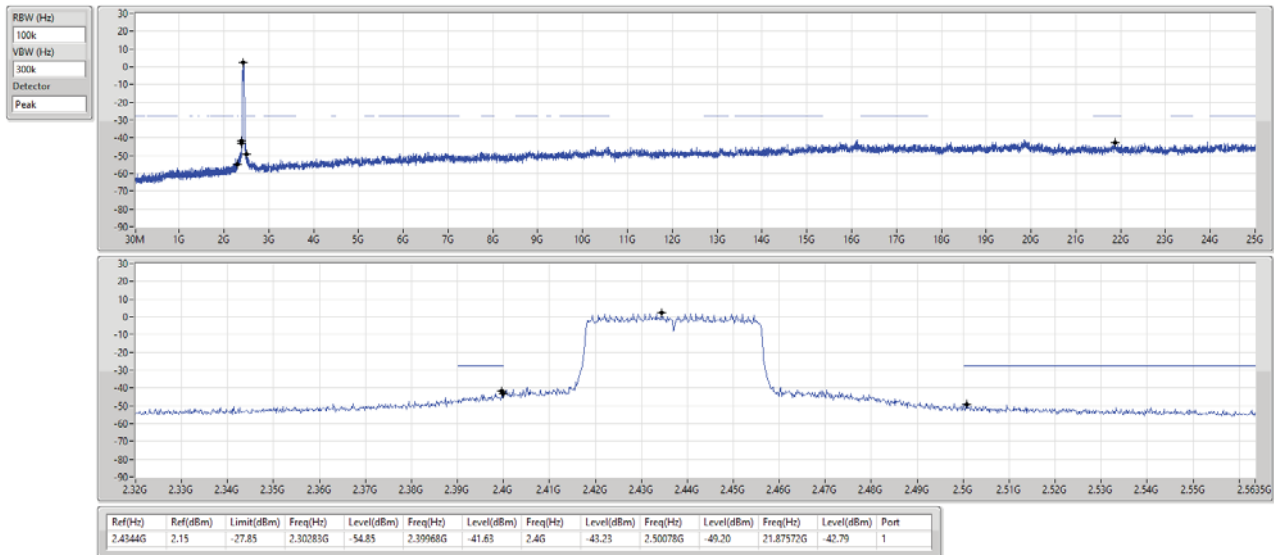
2422MHz



2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

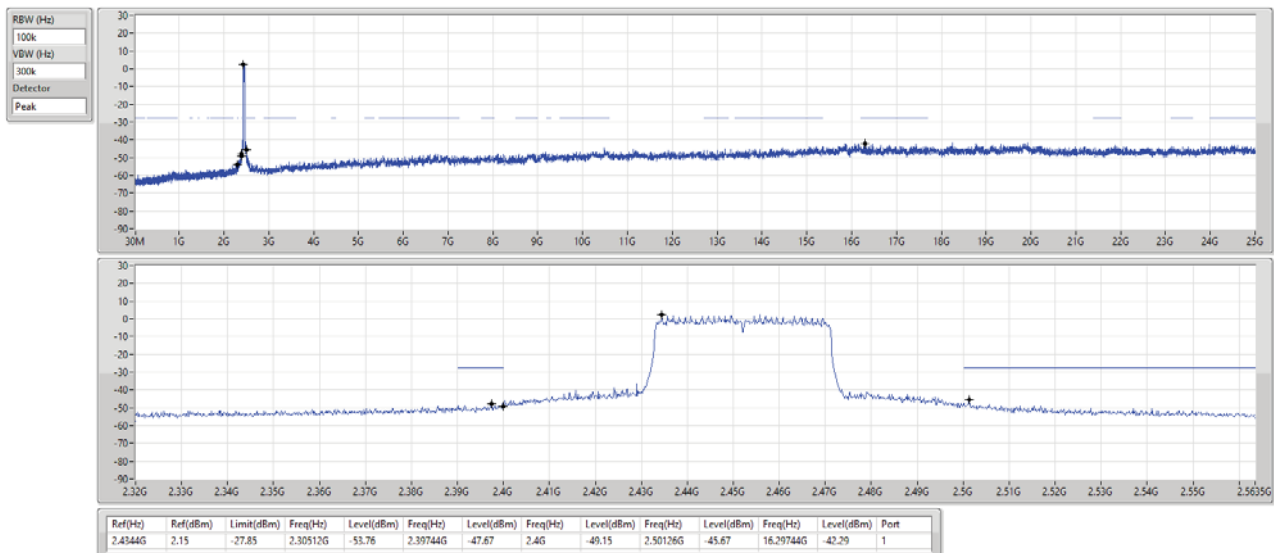
2437MHz



2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

2452MHz

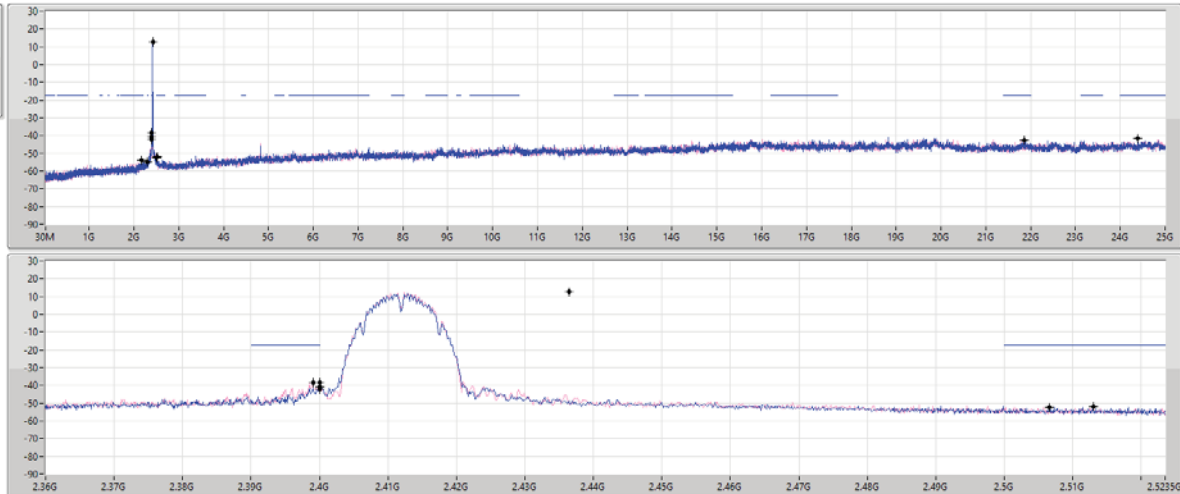


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2412MHz

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



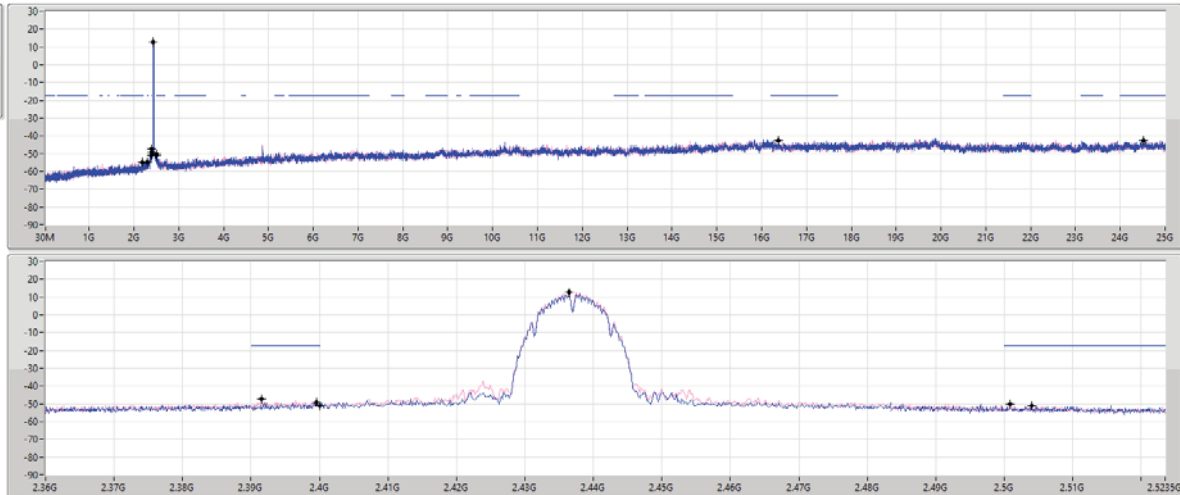
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	12.53	-17.47	2.16894G	-54.12	2.4G	-40.59	2.4G	-42.42	2.50662G	-52.48	24.38471G	-41.95	1
2.43641G	12.53	-17.47	2.30292G	-54.70	2.39904G	-38.59	2.4G	-38.66	2.51302G	-52.20	21.85329G	-42.57	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

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



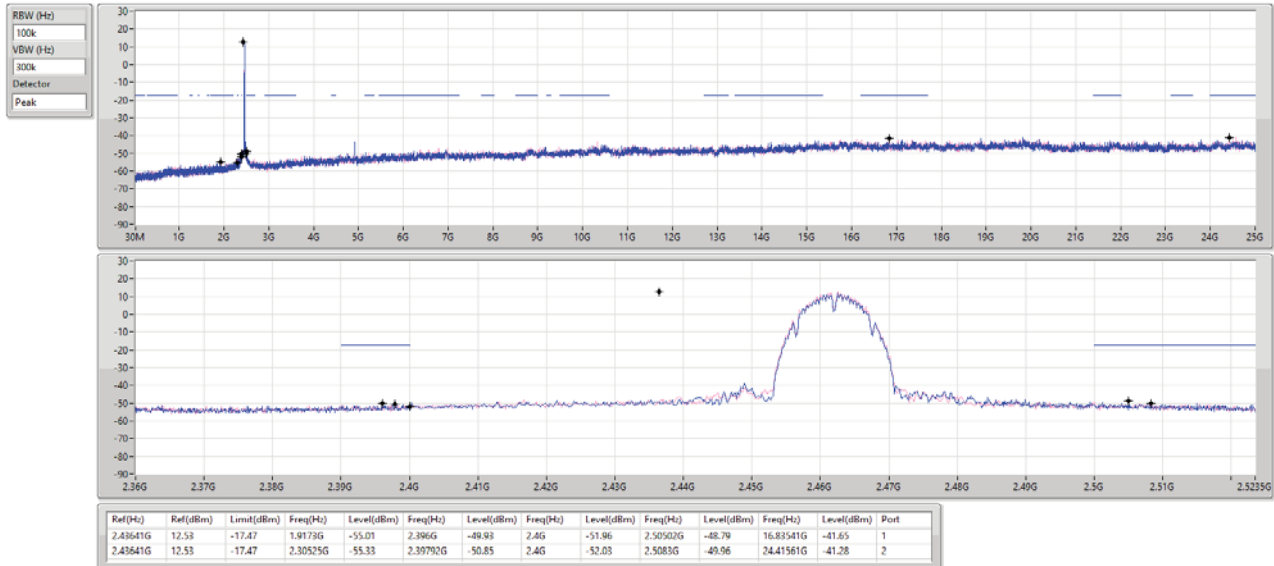
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	12.53	-17.47	2.30292G	-54.61	2.39952G	-49.34	2.4G	-51.24	2.50398G	-51.08	16.37183G	-42.43	1
2.43641G	12.53	-17.47	2.18642G	-55.05	2.39152G	-47.48	2.4G	-50.98	2.50086G	-50.12	24.52337G	-42.89	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2462MHz

24/12/2022

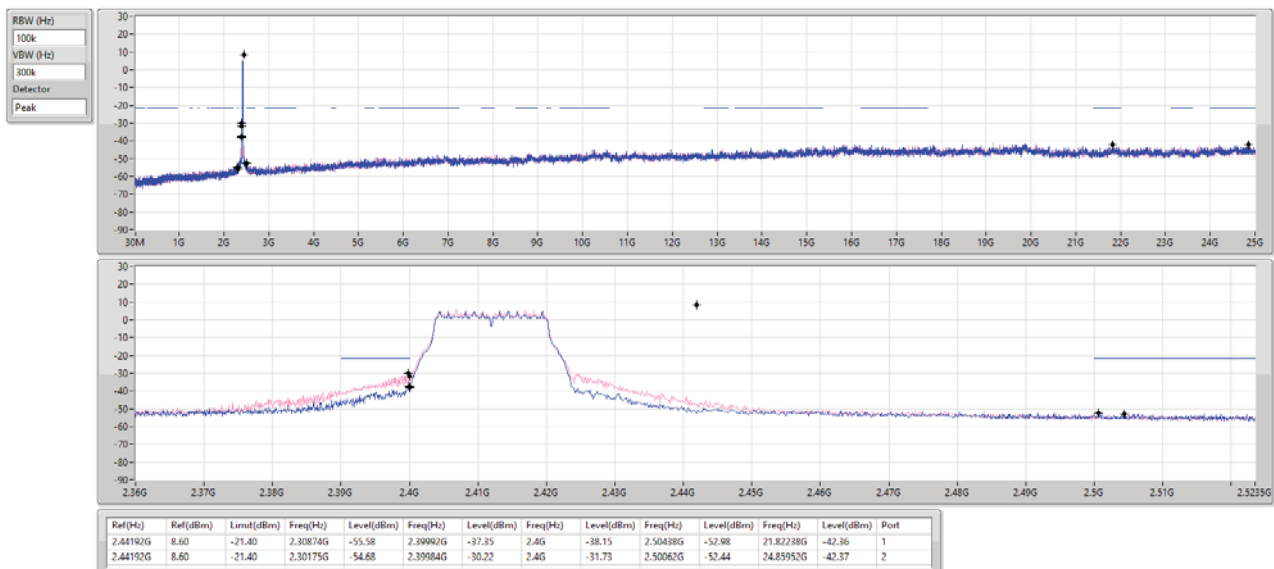


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

24/12/2022



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

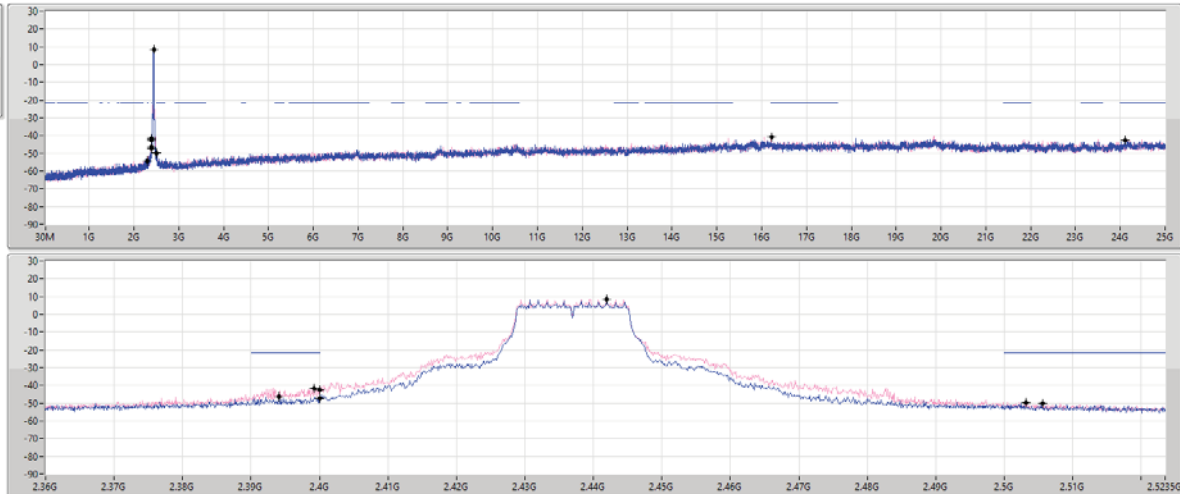
CSEndB

2437MHz

24/12/2022

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

Port 1
Port 2



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	8.60	-21.40	2.30059G	-54.26	2.39408G	-46.21	2.4G	-47.42	2.50558G	-50.30	2.410094G	-42.55	1
2.44192G	8.60	-21.40	2.30758G	-54.28	2.3992G	-41.82	2.4G	-42.83	2.50518G	-49.74	16.22012G	-40.96	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

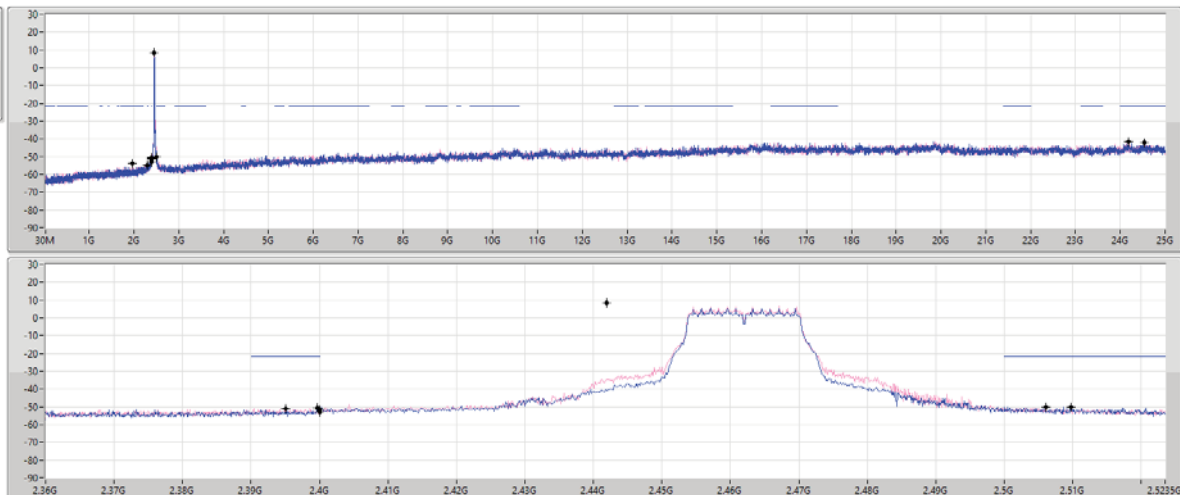
CSEndB

2462MHz

24/12/2022

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

Port 1
Port 2



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	8.60	-21.40	2.30525G	-54.86	2.39688G	-50.47	2.4G	-51.50	2.50776G	-50.11	24.17399G	-41.65	1
2.44192G	8.60	-21.40	1.96975G	-53.96	2.39512G	-50.91	2.4G	-52.88	2.50608G	-50.38	24.52799G	-42.33	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

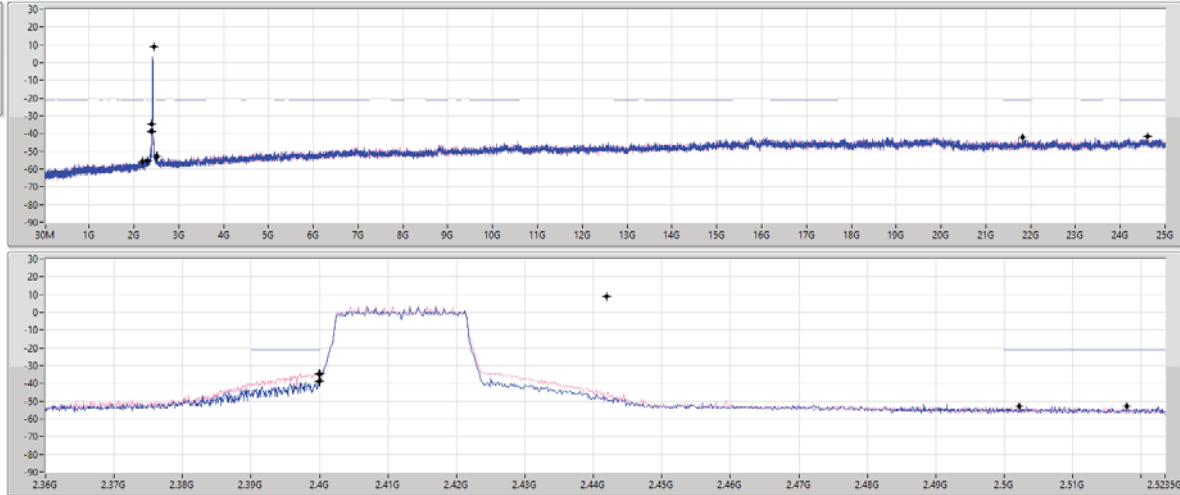
CSEndB

2412MHz

24/12/2022

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

Port 1
Port 2



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	8.99	-21.01	2.19108G	-55.87	2.39992G	-38.99	2.4G	-38.62	2.50222G	-52.98	2.18228G	-42.22	1
2.44192G	8.99	-21.01	2.30292G	-55.14	2.39992G	-34.55	2.4G	-34.52	2.5179G	-53.20	2.461228G	-41.80	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

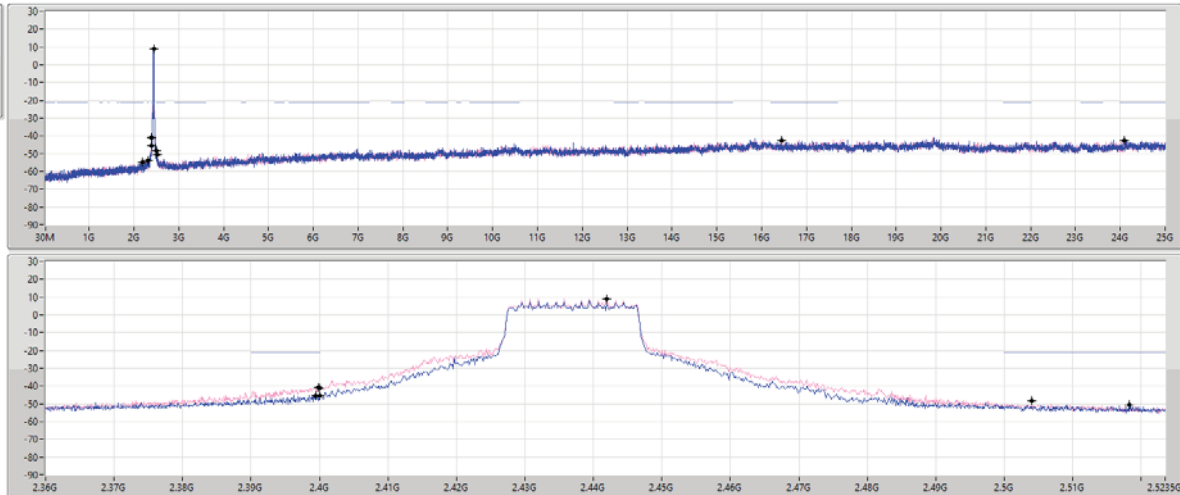
CSEndB

2437MHz

24/12/2022

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

Port 1
Port 2



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	8.99	-21.01	2.30874G	-58.68	2.39944G	-45.32	2.4G	-45.50	2.51822G	-50.46	2.40952G	-42.89	1
2.44192G	8.99	-21.01	2.19457G	-55.06	2.39978G	-40.86	2.4G	-41.38	2.50406G	-48.32	2.461926G	-42.59	2