

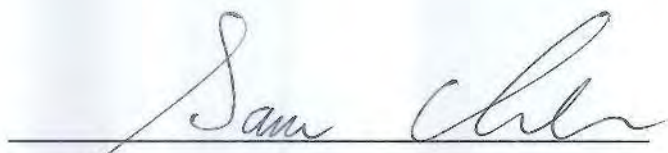


JAPAN RADIO TEST REPORT

Equipment : Dual-Band Wi-Fi 6 Indoor Access Point
Brand Name : Edgecore
Model Name : EAP102
Applicant : Edgecore Networks Corporation
No. 1, Creation Rd. III, Science Park Hsinchu 30077,
Taiwan
Manufacturer (1) : Accton Technology Corporation
No. 1, Creation Rd. III, Science Park Hsinchu
30077, Taiwan
Manufacturer (2) : Accton Technology Corporation Zhunan Factory
1F.& 5F, No. 1, Keyi St., Zhunan Township, Miaoli
County 350 - TAIWAN
Standard : MIC Certification Rule, Article 2 Paragraph 1 Item 19

The product was received on Dec. 07, 2020, and testing was started from Dec. 24, 2020 and completed on Jan. 06, 2021. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in MIC Notice No.88 Appendix No.43 and shown compliance with the applicable MIC Ordinance Regulating Radio Equipment Article 49.20 technical standards.

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


Approved by: Sam Chen

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



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-D2_8 Ver1.0

Page Number : 3 of 19
Issued Date : Feb. 26, 2021
Report Version : 01

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.1	RLE:6	Frequency Band	PASS	-
3.1	ORE:5	Frequency Error	PASS	-
3.2	ORE:6	Occupied Bandwidth	PASS	-
3.2	ORE:49.20	Spread Bandwidth / Factor	PASS	-
3.3	ORE:49.20	Antenna Power	PASS	-
3.3	ORE:14	Antenna Power Error	PASS	-
-	ORE:49.20	Antenna Beamwidth, EIRP Limit ^{*1}	N/A	-
-	ORE:49.20	Radiated EIRP ^{*1}	N/A	-
3.4	ORE:7, Table 3	Transmitter Spurious Emissions	PASS	-
3.5	ORE:24	Receiver Spurious Emissions	PASS	-
3.6	TR:9	Identification Code	PASS	-
3.7	TR:9	Carrier Sense ^{*2}	PASS	-
3.8	ORE:49.20	EUT Construction Protection	N/A	Declared by manufacturer

RLE: Radio Law Enforcement Regulations

ORE: Ordinance Regulating Radio Equipment

TR: Terminal and Other Equipment Regulations

NT: Notification of the Ministry of Internal Affairs and Communications

^{*1}: If EIRP power of EUT is lower than 12.14dBm/MHz (20MHz) and 9.1279dBm/MHz (40MHz), so "Antenna Beamwidth, EIRP Limit" and "Radiated EIRP" could be exempted tests.

^{*2}: If OFDM modulation and Occupied Bandwidth $\geq$ 26MHz, Carrier Sense shall be performed.

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Sam Chen

Report Producer: Cindy Peng

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)	2412-2472	1-13 [13]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2462	3-11 [9]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	4VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	4VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Note:

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

Mode	Declared Power (mW/MHz)
802.11b	4.49780
802.11g	4.58142
802.11ax HEW20	4.58142
802.11ax HEW40	2.20800

1.1.2 Antenna Information

Ant.	WLAN Port	Bluetooth Port	Brand	Model Name	Type	Connector	Gain (dBi)		Remark
							2.4GHz	5GHz	
1	1	-	MAG.LAYERS	MSA-1313-2 5GC4-A2-TN	PIFA	I-PEX	5.43	7.54	WLAN 2.4GHz, WLAN 5GHz
2	2	-	MAG.LAYERS	MSA-1313-2 5GC4-A2-TN	PIFA	I-PEX	5.36	6.92	WLAN 2.4GHz, WLAN 5GHz
3	3	-	MAG.LAYERS	MSA-1313-2 5GC4-A2-TN	PIFA	I-PEX	5.24	6.80	WLAN 2.4GHz, WLAN 5GHz
4	4	1	MAG.LAYERS	MSA-1313-2 5GC4-A2-TN	PIFA	I-PEX	5.19	6.76	WLAN 2.4GHz, WLAN 5GHz, Bluetooth

Note: The above information was declared by manufacturer.

<WLAN 2.4GHz function>

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

The EUT supports the antenna with TX and RX diversity functions.

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

The Pot 1 and Port 2 generated the worst case, so they are selected to test and record in the report.

<WLAN 5GHz function>

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

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

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

<Bluetooth function>

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

1.1.3 EUT Information

EUT Power Type	From power adapter or PoE
Test Software Version	QRCT Version:4.0.00134.0

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b	0.61	2.147
802.11g	0.935	0.292
802.11ax HEW20	0.901	0.453
802.11ax HEW40	0.927	0.329

1.1.5 Power Supply Voltage Fluctuation

Fluctuation	AC Input Power(V)	DC Output Power(V)	Variation (%)
Normal Vol	100	12.01	-
High Vol	110	12.01	0.000000
Low Vol	90	12.01	0.000000

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100.
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.



1.2 Applicable Standards

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

- ♦ MIC Ordinance Regulating Radio Equipment Article 49.20
- ♦ MIC Notice No.88 Appendix No.43

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Li	18.8-19.9 / 65-68	Dec. 24, 2020~Jan. 06, 2021

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission	2.4 dB	Confidence levels of 95%
Radio frequency	5.1×10^{-10}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1_2TX	-
2412MHz	12
2442MHz	12
2472MHz	12
802.11g_Nss1_2TX	-
2412MHz	16
2442MHz	16
2472MHz	16
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	16
2442MHz	16
2472MHz	16
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	16
2442MHz	16
2462MHz	15.5

Note: HEW20/HEW40 covers HT20/HT40/VHT20/VHT40, due to similar modulation. The power setting for HT20/HT40/VHT20/VHT40 are the same or lower than HEW20/HEW40.

2.2 The Worst Case Measurement Configuration

Tests Item	Frequency Error, Occupied Bandwidth, Spread Bandwidth, Spread Factor, Antenna Power, Antenna Power Error, Transmitter Spurious Emissions, Receiver Spurious Emissions, Identification Code, Carrier Sense
Test Condition	Conducted measurement at transmit chains.

2.3 EUT Operation during Test

During the test, "QRCT Version:4.0.00134.0" under WIN 7 was executed the test program to control the EUT continuously transmit/receive RF signal.

2.4 Accessories

Accessories			
Power	Brand	Model	Rating
Adapter	APD	WB-24J12R	Input: 100-240V~50-60Hz 0.7 Max. Output: 12.0V, 2.0A, 24.0W
Others			
Plug*1			
Console cable*1: Non-shielded, 1.5m			
Wall bracket*1			

2.5 Support Equipment

For Other tests:

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

For Carrier Sense test:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN module	Intel	AX200NGW	PD9AX200NG

3 Test Result

3.1 Frequency Error

3.1.1 Frequency Error Limit

Frequency Error Limit
$\leq \pm 50$ ppm

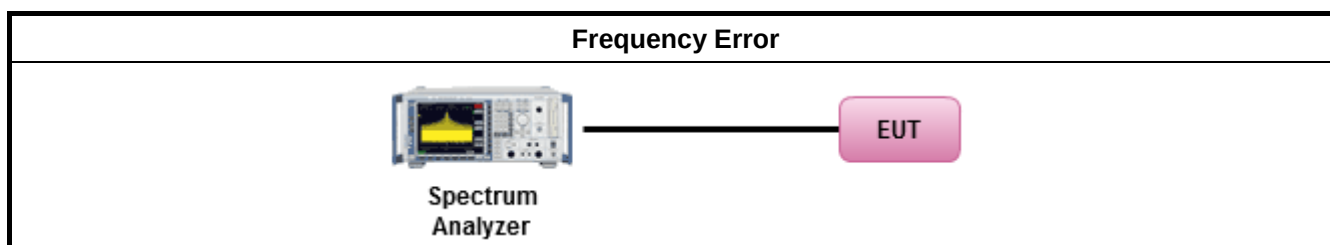
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 3.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 3.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 3.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 3.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 3.6

3.1.4 Test Setup



3.1.5 Test Result of Frequency Error

Refer as Appendix A

3.2 Occupied Bandwidth, Spread Bandwidth and Spread Factor

3.2.1 Occupied Bandwidth, Spread Bandwidth and Spread Factor Limit

Occupied Bandwidth Limit	
FHSS	83.5 MHz
FHSS + DSSS	83.5 MHz
FHSS + OFDM	83.5 MHz
OFDM	40 MHz
Other	26 MHz

Spread Bandwidth and Spread Factor Limit	
Spread Bandwidth	≥500kHz
Spread Factor	≥5

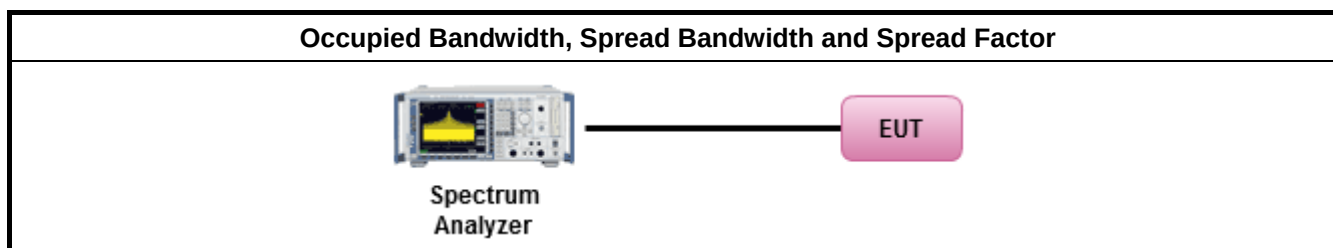
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 4.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 4.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 4.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 4.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 4.6

3.2.4 Test Setup



3.2.5 Test Result of Occupied Bandwidth / Spread Bandwidth / Spread Factor

Refer as Appendix B

3.3 Antenna Power, Antenna Power Error

3.3.1 Antenna Power and Antenna Power Error Limit

Antenna Power Limit (mW/MHz)
$\leq 3\text{mW/MHz}$ (FHSS, FHSS+DSSS, FHSS+OFDM form 2427~2470.75 MHz) $\leq 10\text{mW/MHz}$ (DSSS from 2400~2483.5MHz) $\leq 10\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [OBW $\leq$ 26MHz] $\leq 5\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [26MHz<OBW $\leq$ 40MHz] $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)

Antenna Power Error Limit (%)
+20% ~ -80%

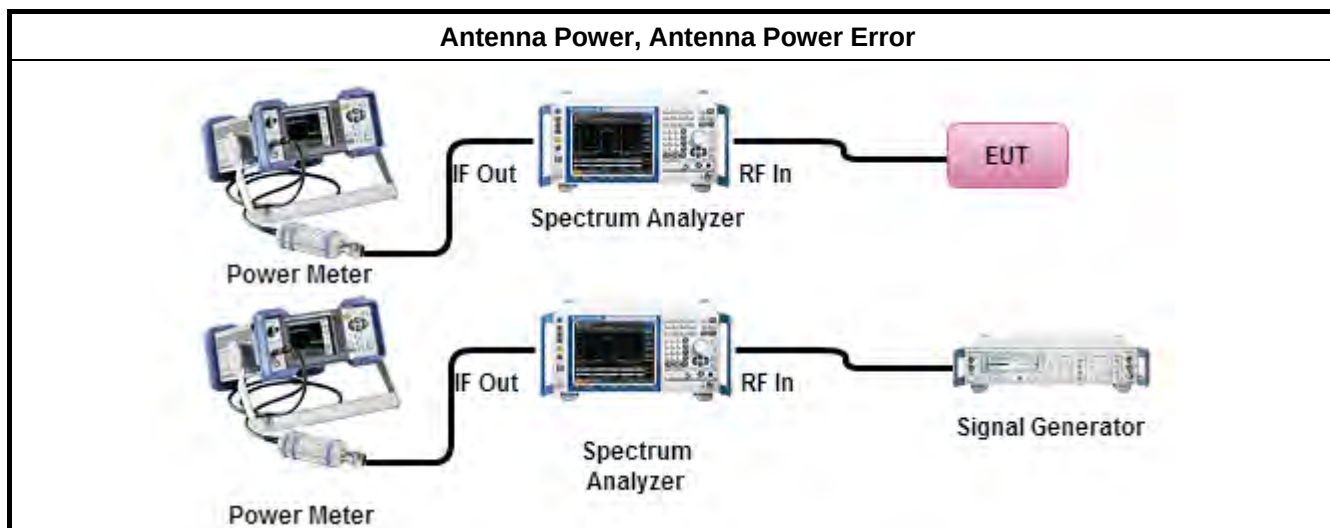
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 6.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 6.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 6.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 6.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 6.6

3.3.4 Test Setup



3.3.5 Test Result of Antenna Power and Antenna Power Error

Refer as Appendix C

3.4 Transmitter Spurious Emissions

3.4.1 Transmitter Spurious Emissions Limit

Transmitter Spurious Emissions		Limit	
Range (MHz)		uW/MHz	dBm/MHz
30	2387	2.5	-26
2387	2400	25	-16
2483.5	2496.5	25	-16
2496.5	12500	2.5	-26

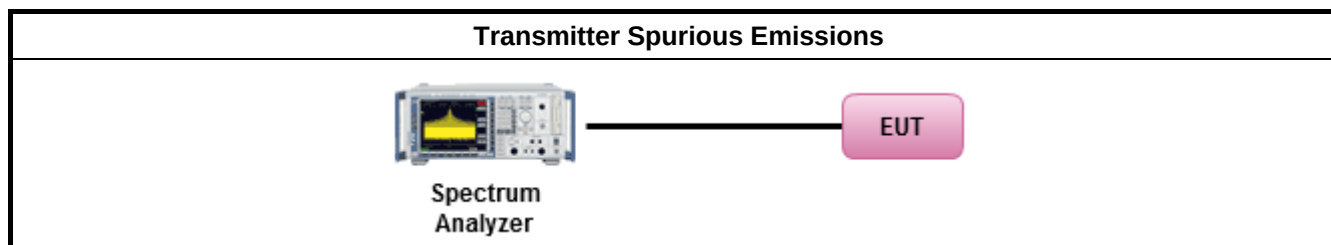
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.1, clause 1.3
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.1, clause 1.4
Measuring Operation Procedures	MIC Notice No.88 Appendix No.1, clause 1.5
Presentation of Results	MIC Notice No.88 Appendix No.1, clause 1.6

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Spurious Emissions

Refer as Appendix D

3.5 Receiver Spurious Emissions

3.5.1 Receiver Spurious Emissions Limit

RX Spurious Emission		Limit			
Range (MHz)		nW		dBm	
30	1000	4	4	-54	-54
1000	12500	20	20	-47	-47

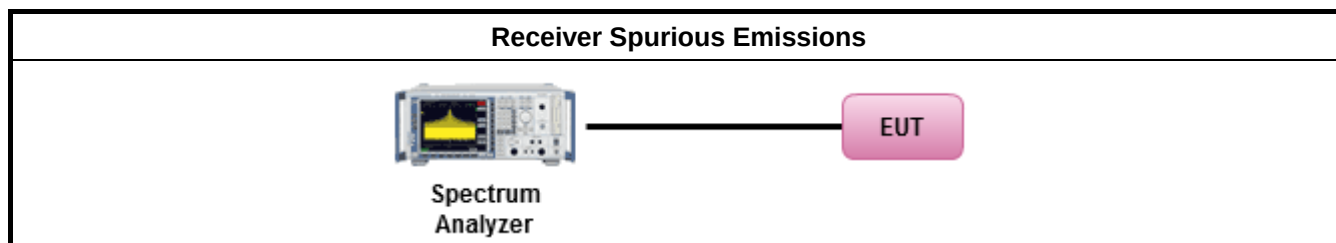
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 7.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 7.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 7.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 7.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 7.6

3.5.4 Test Setup



3.5.5 Test Result of Receiver Spurious Emissions

Refer as Appendix E

3.6 Identification Code

3.6.1 Identification Code Limit

Identification Code Limit
≤ 48 bits

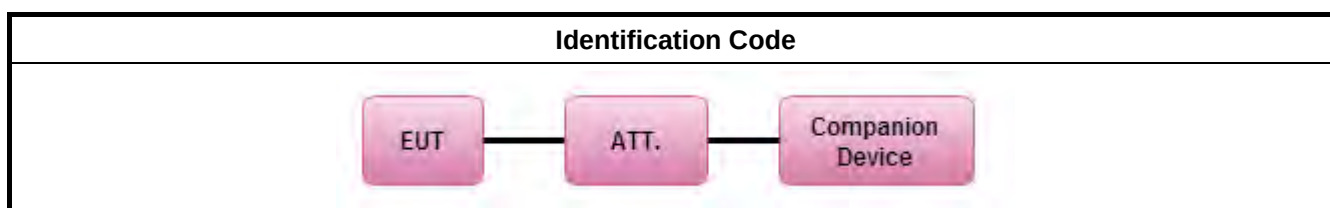
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 12.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 12.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 12.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 12.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 12.6

3.6.4 Test Setup



3.6.5 Test Result of Identification Code

Refer as Appendix F

3.7 Carrier Sense

3.7.1 Carrier Sense Limit

Carrier Sense Limit	
Stop transmission for interference signal level above 100mV/m (or level at $22.79 + Gr - 20 \cdot \log(f)$ [dBm])	

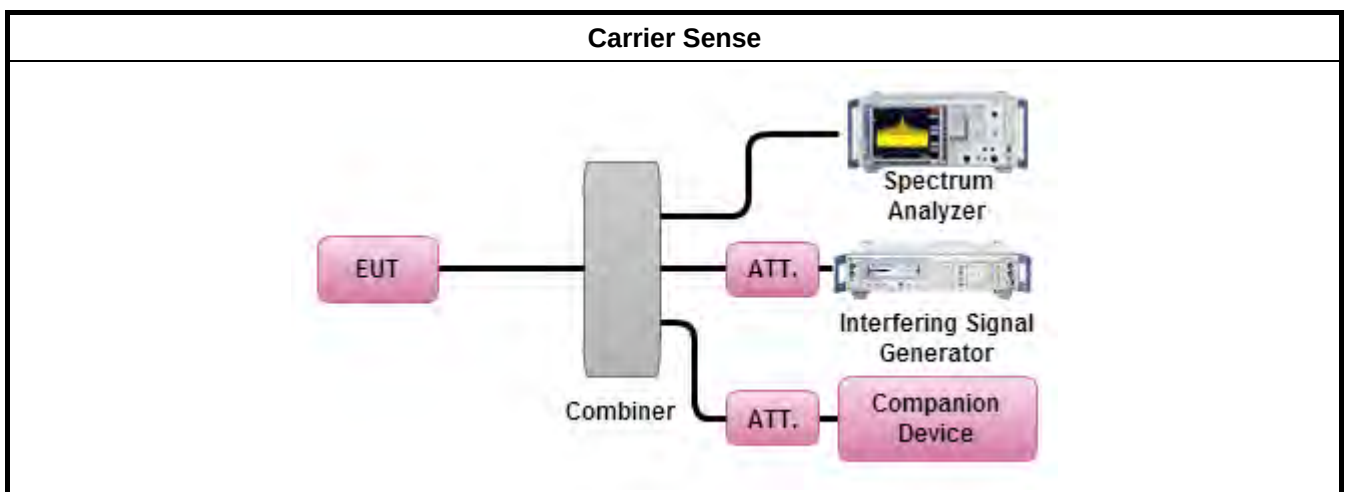
3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 8.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 8.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 8.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 8.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 8.6

3.7.4 Test Setup



3.7.5 Test Result of Carrier Sense

Refer as Appendix G

3.8 EUT Construction Protection

3.8.1 EUT Construction Protection Limit

EUT Construction Protection Limit	
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.	

3.8.2 EUT Construction Protection

EUT Construction Protection	
Protected Method	Description
Shielding Case	RF and Modulation components are covered with shielding case and this shielding case is soldered

3.8.3 Reference Documents

Photo	
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4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Calibration Method	Calibration Agent Name	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	c)	A	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	c)	B	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	c)	A	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	c)	A	Conducted (TH01-CB)
Digital Multimeters	Fluke	15B+	42390498WS	--	Oct. 21, 2020	Oct. 20, 2021	c)	A	Conducted (TH01-CB)
Programmable AC Source	Chroma	61504	615040000670	-	Dec. 17, 2020	Dec. 16, 2021	c)	A	Conducted (TH01-CB)
Signal generator	R&S	SMB100A	177785	1MHz-40GHz	Sep. 09, 2020	Sep. 08, 2021	c)	C	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	c)	A	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	c)	A	Conducted (TH01-CB)
RF Power Divider	MTJ	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 05, 2020	Oct. 04, 2021	c)	A	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	N/A	N/A	Conducted (TH01-CB)

Note:

1. Calibration Interval of instruments listed above is one year.
2. N.C.R. means Non-Calibration required.
3. Calibration Agent Name: Describe calibration agent name with its country name, and symbols in "Calibration Agent Name" shows the agent names as follows,
A: Electronics Testing Center, Taiwan.
B: Sporton International Inc., Taiwan.
C: ROHDE&SCHWARZ, Taiwan.
4. Calibration Method
 - a) : Calibration conducted by the National Institute of Information and Communications Technology or a designated calibration agency under Article 102-18 paragraph (1)
 - b) : Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
 - c) : Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
 - d) : Calibration conducted by using other equipment that listed above from a) to c)



Frequency Tolerance Result

Appendix A

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	2.472G	2.47198125G	-7.585	±50	1	-
802.11g_Nss1_2TX	Pass	2.472G	2.47198875G	-4.551	±50	1	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.472G	2.47198875G	-4.551	±50	1	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.462G	2.46197375G	-10.6621	±50	1	-

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
802.11b_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.41199625G	-1.5547	±50	1	-
2442MHz_TnomVnom	Pass	2.442G	2.44199438G	-2.3034	±50	1	-
2472MHz_TnomVnom	Pass	2.472G	2.47198125G	-7.585	±50	1	-
802.11g_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.41199063G	-3.8868	±50	1	-
2442MHz_TnomVnom	Pass	2.442G	2.44199063G	-3.8391	±50	1	-
2472MHz_TnomVnom	Pass	2.472G	2.47198875G	-4.551	±50	1	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.4119925G	-3.1095	±50	1	-
2442MHz_TnomVnom	Pass	2.442G	2.4419925G	-3.0713	±50	1	-
2472MHz_TnomVnom	Pass	2.472G	2.47198875G	-4.551	±50	1	-
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.422G	2.421985G	-6.1932	±50	1	-
2442MHz_TnomVnom	Pass	2.442G	2.4419775G	-9.2138	±50	1	-
2462MHz_TnomVnom	Pass	2.462G	2.46197375G	-10.6621	±50	1	-



Occupied Bandwidth Result

Appendix B.1

Summary

Mode	Max-OBW (Hz)	ITU-Code	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-
802.11b_Nss1_2TX	13M	13M0G1D	12.98M
802.11g_Nss1_2TX	16.48M	16M5D1D	16.44M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.98M	19M0D1D	18.94M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.08M	38M1D1D	38.04M

Max-OBW = Maximum 99% occupied bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	P1-OBW (Hz)	P2-OBW (Hz)
802.11b_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26M	12.98M	12.98M
2442MHz_TnomVnom	Pass	26M	12.98M	12.98M
2472MHz_TnomVnom	Pass	26M	12.98M	13M
802.11g_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26M	16.46M	16.44M
2442MHz_TnomVnom	Pass	26M	16.44M	16.44M
2472MHz_TnomVnom	Pass	26M	16.48M	16.46M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26M	18.98M	18.96M
2442MHz_TnomVnom	Pass	26M	18.94M	18.98M
2472MHz_TnomVnom	Pass	26M	18.94M	18.98M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-
2422MHz_TnomVnom	Pass	40M	38.08M	38.04M
2442MHz_TnomVnom	Pass	40M	38.04M	38.04M
2462MHz_TnomVnom	Pass	40M	38.04M	38.04M

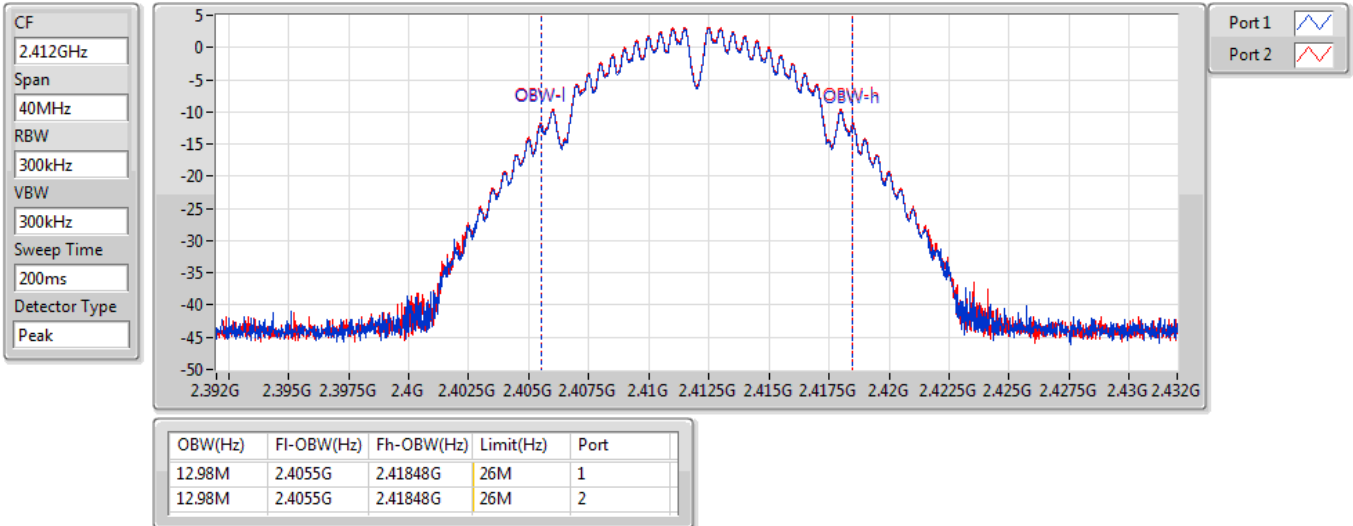
P1-OBW = Port 1 99% occupied bandwidth; **P2-OBW** = Port 2 99% occupied bandwidth; **Pn-OBW** = Port n 99% occupied bandwidth

802.11b_Nss1_2TX

OBW

2412MHz_TnomVnom

25/12/2020

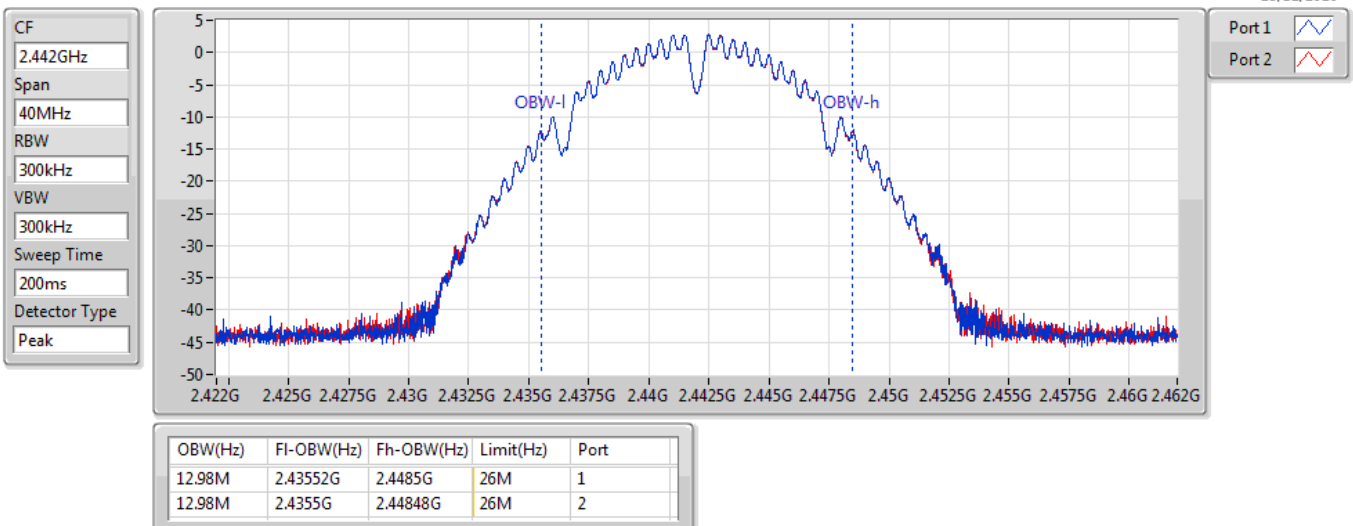


802.11b_Nss1_2TX

OBW

2442MHz_TnomVnom

25/12/2020

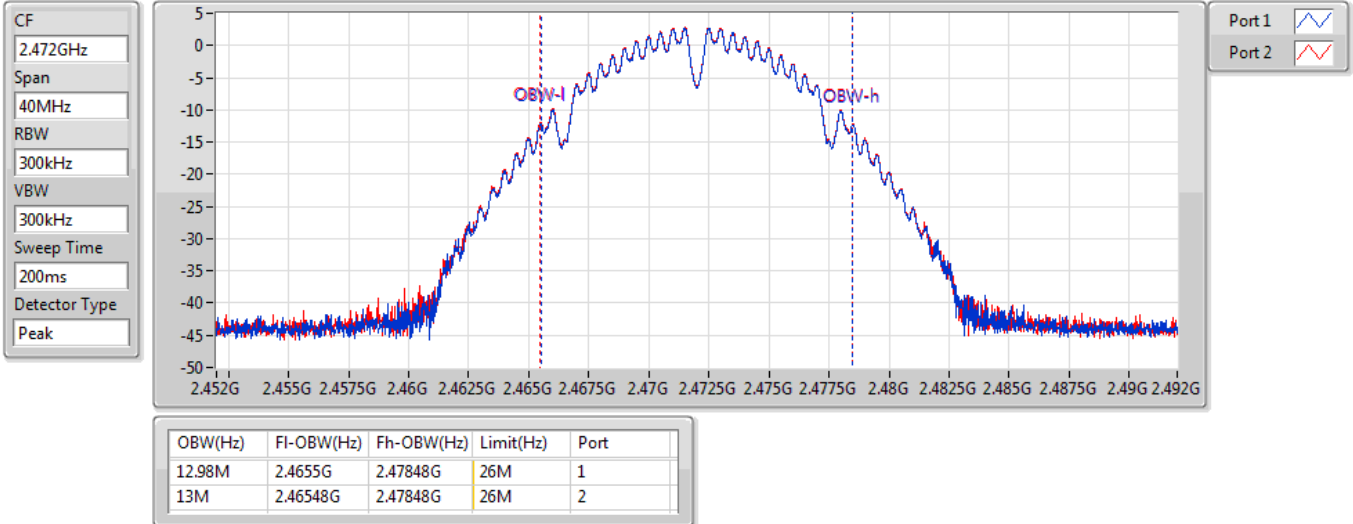


802.11b_Nss1_2TX

OBW

2472MHz_TnomVnom

25/12/2020

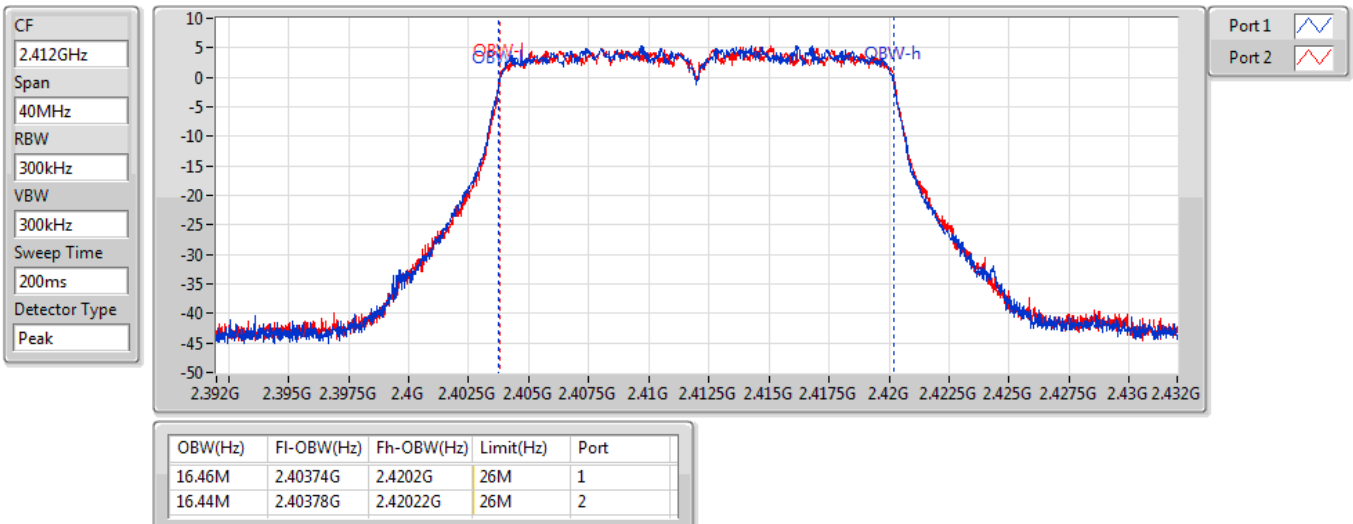


802.11g_Nss1_2TX

OBW

2412MHz_TnomVnom

25/12/2020



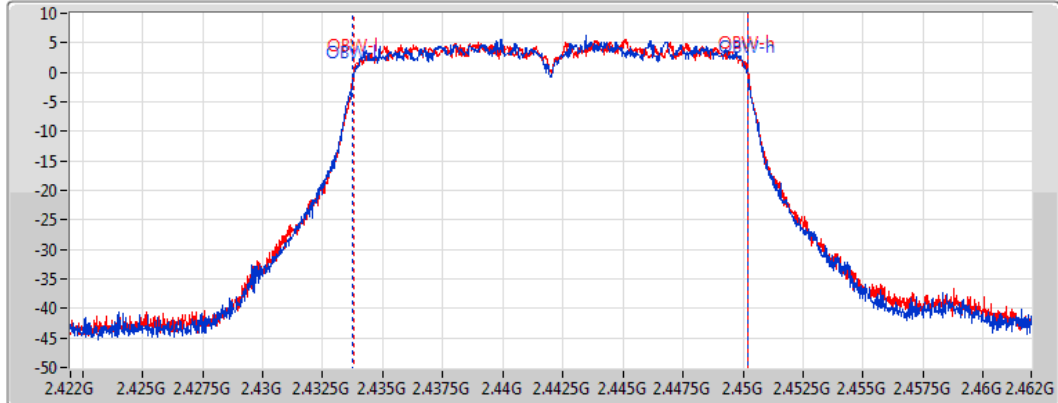
802.11g_Nss1_2TX

OBW

2442MHz_TnomVnom

25/12/2020

CF
2.442GHz
Span
40MHz
RBW
300kHz
VBW
300kHz
Sweep Time
200ms
Detector Type
Peak



OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.44M	2.43376G	2.4502G	26M	1
16.44M	2.43378G	2.45022G	26M	2

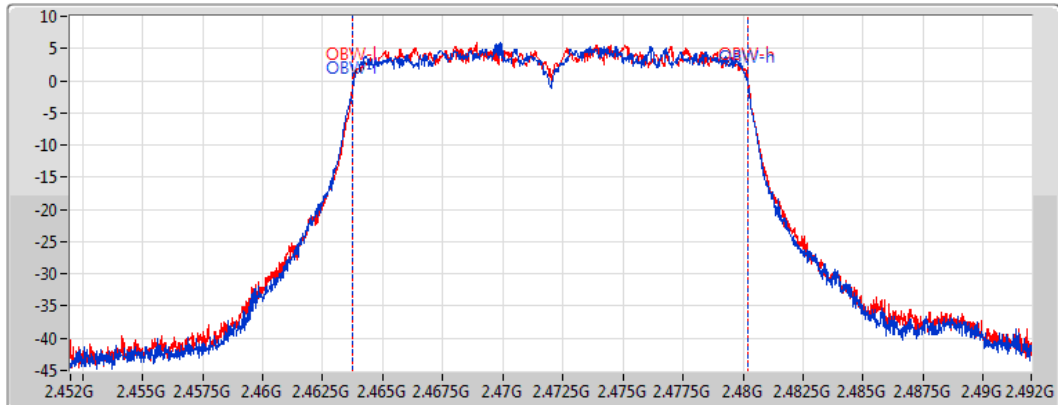
802.11g_Nss1_2TX

OBW

2472MHz_TnomVnom

25/12/2020

CF
2.472GHz
Span
40MHz
RBW
300kHz
VBW
300kHz
Sweep Time
200ms
Detector Type
Peak



OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.48M	2.46372G	2.4802G	26M	1
16.46M	2.46376G	2.48022G	26M	2

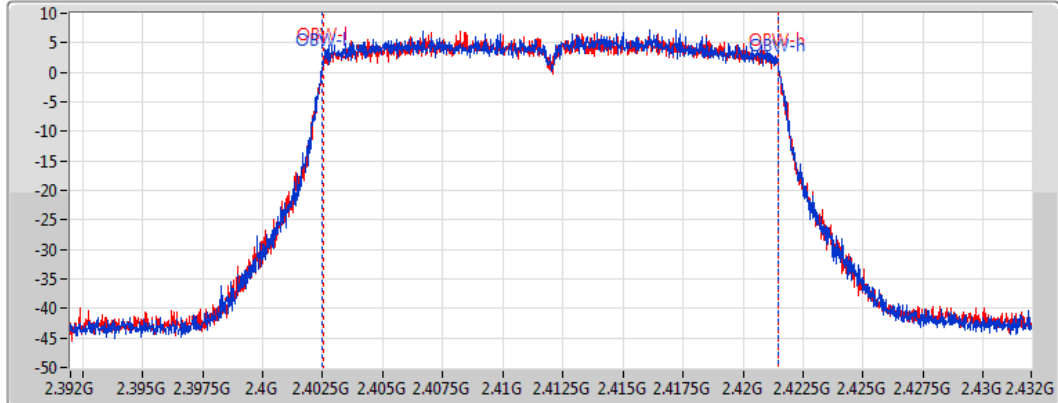
802.11ax HEW20_Nss1,(MCS0)_2TX

OBW

2412MHz_TnomVnom

25/12/2020

CF
2.412GHz
Span
40MHz
RBW
300kHz
VBW
300kHz
Sweep Time
200ms
Detector Type
Peak



OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.98M	2.4025G	2.42148G	26M	1
18.96M	2.40252G	2.42148G	26M	2

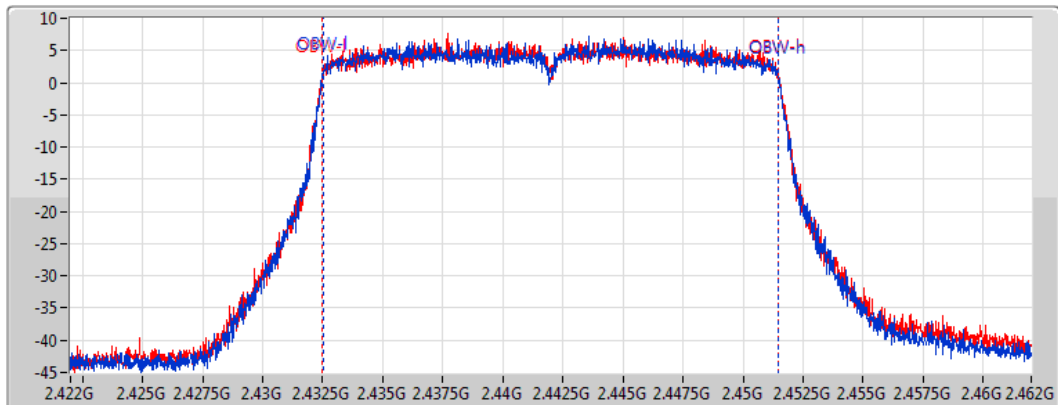
802.11ax HEW20_Nss1,(MCS0)_2TX

OBW

2442MHz_TnomVnom

25/12/2020

CF
2.442GHz
Span
40MHz
RBW
300kHz
VBW
300kHz
Sweep Time
200ms
Detector Type
Peak



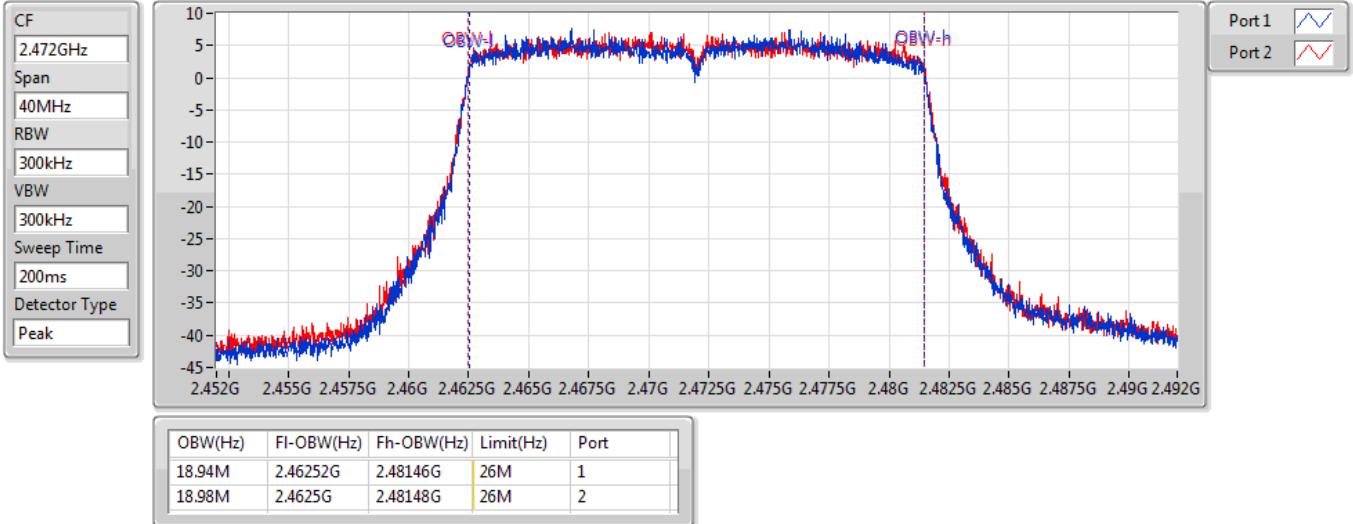
OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.94M	2.43252G	2.45146G	26M	1
18.98M	2.4325G	2.45148G	26M	2

802.11ax HEW20_Nss1,(MCS0)_2TX

OBW

2472MHz_TnomVnom

25/12/2020



802.11ax HEW40_Nss1,(MCS0)_2TX

OBW

2422MHz_TnomVnom

25/12/2020

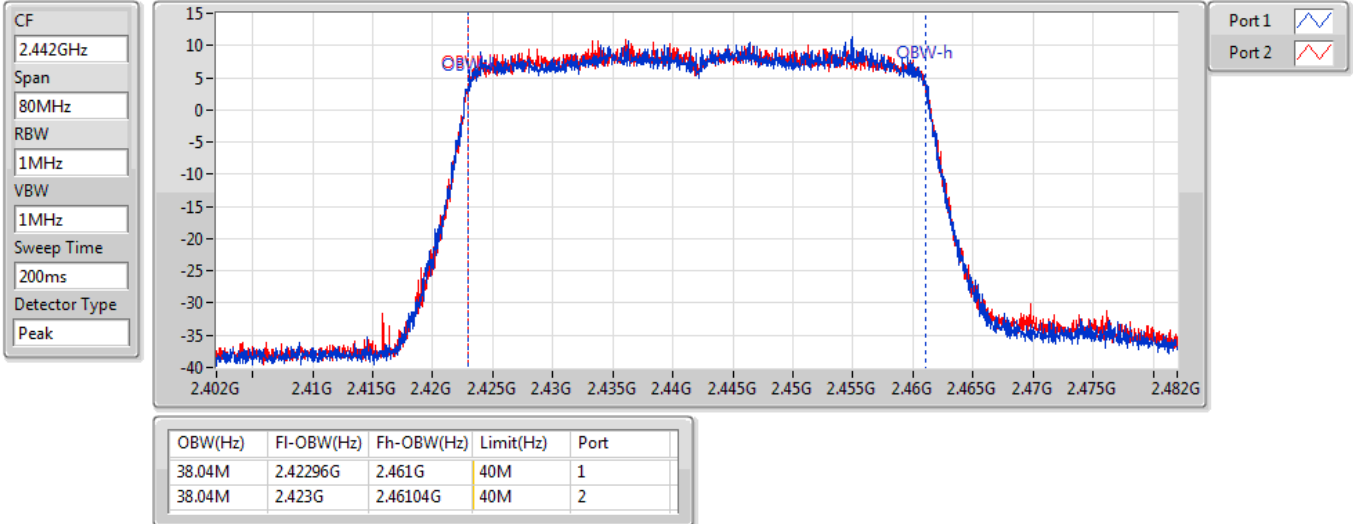


802.11ax HEW40_Nss1,(MCS0)_2TX

OBW

2442MHz_TnomVnom

25/12/2020

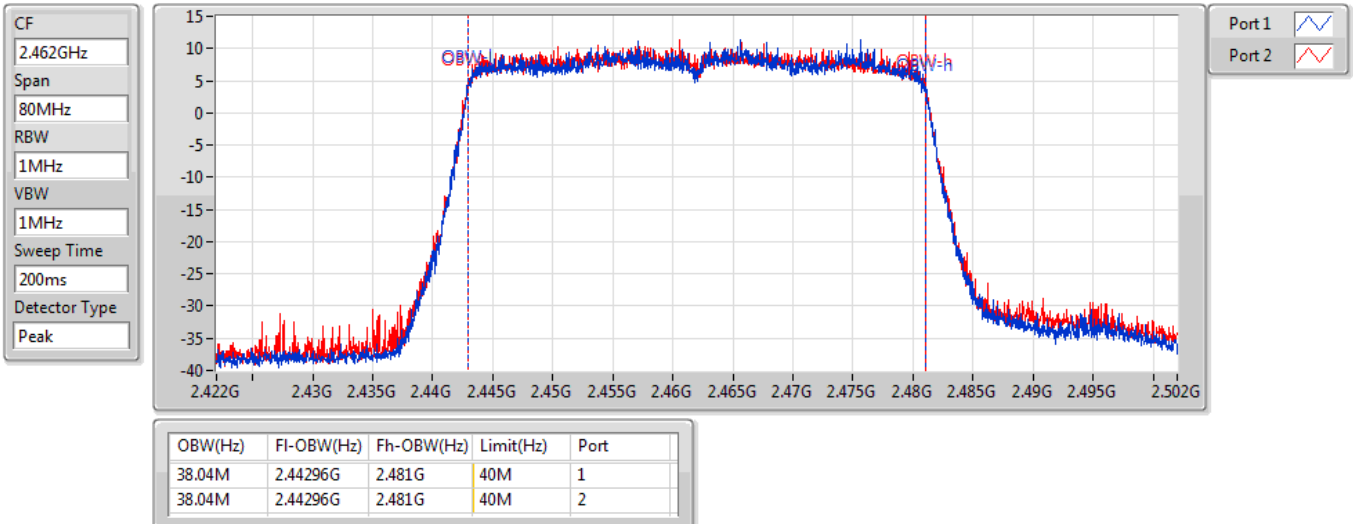


802.11ax HEW40_Nss1,(MCS0)_2TX

OBW

2462MHz_TnomVnom

25/12/2020





Spreading Bandwidth Result

Appendix B.2

Summary

Mode	Max-SBW (Hz)	Min-SBW (Hz)	Max-SF	Min-SF
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_2TX	8.08M	8.06M	5.876	5.862

Max-SBW = Maximum spreading bandwidth; **Min-SBW** = Minimum spreading bandwidth;
Max-SF = Maximum spreading factor; **Min-SF** = Minimum spreading factor;

Result

Mode	Result	SBW Limit (Hz)	Symbol Rate (Mps)	SF Limit	P1-SBW (Hz)	P1-SF	P2-SBW (Hz)	P2-SF
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	1.375M	5	8.06M	5.862	8.06M	5.862
2442MHz_TnomVnom	Pass	500k	1.375M	5	8.06M	5.862	8.06M	5.862
2472MHz_TnomVnom	Pass	500k	1.375M	5	8.06M	5.862	8.08M	5.876

P1-SBW = Port 1 spreading bandwidth; **P2-SBW** = Port 2 spreading bandwidth; **Pn-SBW** = Port n spreading bandwidth;
P1-SF = Port 1 spreading factor; **P2-SF** = Port 2 spreading factor; **Pn-SF** = Port n spreading factor;

802.11b_Nss1_2TX

SBW

2412MHz_TnomVnom

25/12/2020

CF
2.412GHz

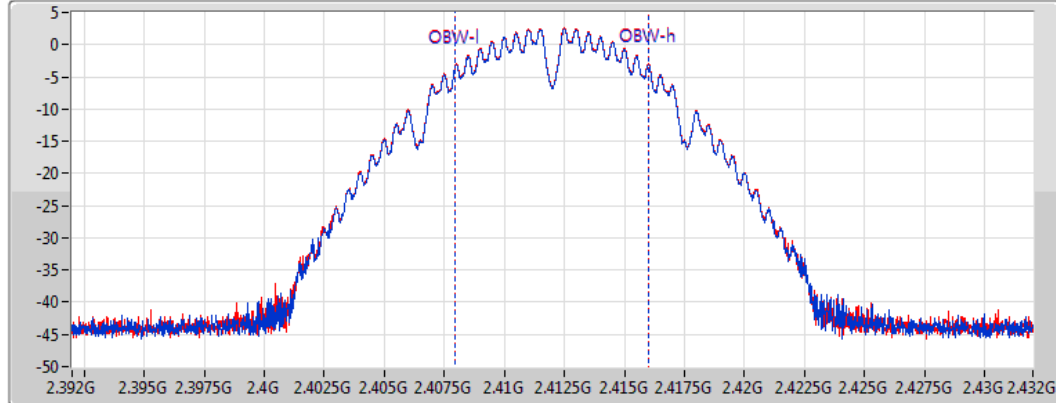
Span
40MHz

RBW
300kHz

VBW
300kHz

Sweep Time
200ms

Detector Type
Peak



Port 1 

Port 2 

SBW(Hz)	Fl-SBW(Hz)	Fh-SBW(Hz)	SBW Limit(Hz)	Symbol Rate(Msps)	SF	SF Limit	Port
8.06M	2.40796G	2.41602G	500k	1.375M	5.862	5	1
8.06M	2.40796G	2.41602G	500k	1.375M	5.862	5	2

802.11b_Nss1_2TX

SBW

2442MHz_TnomVnom

25/12/2020

CF
2.442GHz

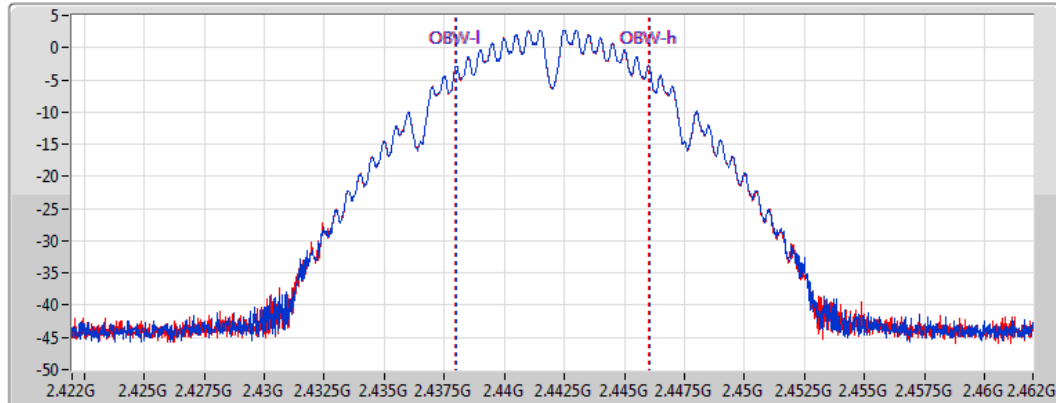
Span
40MHz

RBW
300kHz

VBW
300kHz

Sweep Time
200ms

Detector Type
Peak



Port 1 

Port 2 

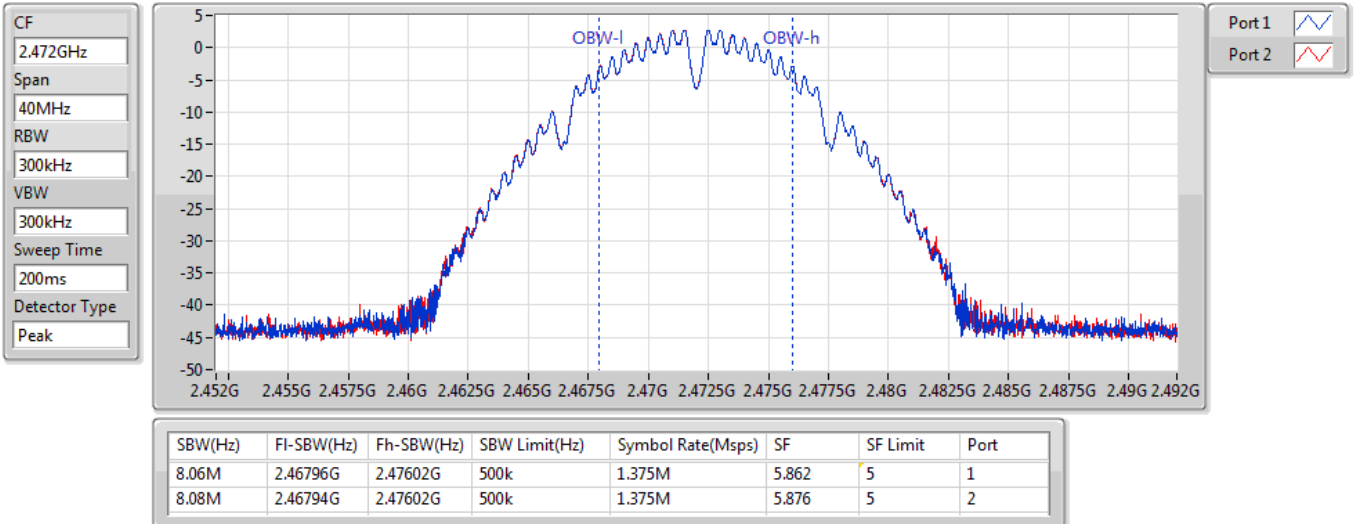
SBW(Hz)	Fl-SBW(Hz)	Fh-SBW(Hz)	SBW Limit(Hz)	Symbol Rate(Msps)	SF	SF Limit	Port
8.06M	2.43798G	2.44604G	500k	1.375M	5.862	5	1
8.06M	2.43796G	2.44602G	500k	1.375M	5.862	5	2

802.11b_Nss1_2TX

SBW

2472MHz_TnomVnom

25/12/2020





Antenna Power Result

Appendix C.1

Summary

Mode	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	EIRP Antenna Power (dBm/MHz)	EIRP Antenna Power (mW/MHz)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_2TX	6.53	4.49780	11.93	15.59553
802.11g_Nss1_2TX	6.61	4.58142	12.01	15.88547
802.11ax HEW20_Nss1,(MCS0)_2TX	6.47	4.43609	11.87	15.38155
802.11ax HEW40_Nss1,(MCS0)_2TX	3.44	2.20800	8.84	7.65597

Result

Mode	Result	Gain (dBi)	P1 (dBm/MHz)	P2 (dBm/MHz)	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Antenna Power Lim. (mW/MHz)	EIRP Antenna Power (dBm/MHz)	EIRP Antenna Power (mW/MHz)	EIRP Antenna Power Lim. (mW/MHz)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	5.40	3.22	3.20	6.22	4.18794	10	11.62	14.52112	16.368
2442MHz_TnomVnom	Pass	5.40	3.37	3.48	6.44	4.40555	10	11.84	15.27566	16.368
2472MHz_TnomVnom	Pass	5.40	3.41	3.62	6.53	4.49780	10	11.93	15.59553	16.368
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	5.40	3.47	3.28	6.39	4.35512	10	11.79	15.10080	16.368
2442MHz_TnomVnom	Pass	5.40	3.51	3.55	6.54	4.50817	10	11.94	15.63148	16.368
2472MHz_TnomVnom	Pass	5.40	3.67	3.53	6.61	4.58142	10	12.01	15.88547	16.368
802.11ax HEW20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	5.40	3.30	3.19	6.26	4.22669	10	11.66	14.65548	16.368
2442MHz_TnomVnom	Pass	5.40	3.72	3.08	6.42	4.38531	10	11.82	15.20548	16.368
2472MHz_TnomVnom	Pass	5.40	3.55	3.36	6.47	4.43609	10	11.87	15.38155	16.368
802.11ax HEW40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	5.40	0.74	0.08	3.43	2.20293	5	8.83	7.63836	8.184
2442MHz_TnomVnom	Pass	5.40	0.51	0.36	3.44	2.20800	5	8.84	7.65597	8.184
2462MHz_TnomVnom	Pass	5.40	0.34	0.46	3.41	2.19280	5	8.81	7.60326	8.184

P1 = Port 1 Antenna Power; **P2** = Port 2 Antenna Power; **Pn** = Port n Antenna Power; **Antenna Power** = Sum by **P1-Pn**



Power Tolerance Result

Appendix C.2

Summary

Mode	Result	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	6.53	4.49780	4.49780	0.00	20	-80
802.11g_Nss1_2TX	Pass	6.61	4.58142	4.58142	0.00	20	-80
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	6.47	4.43609	4.58142	-3.17	20	-80
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	3.44	2.20800	2.20800	0.00	20	-80

Result

Mode	Result	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
802.11b_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.22	4.18794	4.49780	-6.89	20	-80
2442MHz_TnomVnom	Pass	6.44	4.40555	4.49780	-2.05	20	-80
2472MHz_TnomVnom	Pass	6.53	4.49780	4.49780	0.00	20	-80
802.11g_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.39	4.35512	4.58142	-4.94	20	-80
2442MHz_TnomVnom	Pass	6.54	4.50817	4.58142	-1.60	20	-80
2472MHz_TnomVnom	Pass	6.61	4.58142	4.58142	0.00	20	-80
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.26	4.22669	4.58142	-7.74	20	-80
2442MHz_TnomVnom	Pass	6.42	4.38531	4.58142	-4.28	20	-80
2472MHz_TnomVnom	Pass	6.47	4.43609	4.58142	-3.17	20	-80
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.43	2.20293	2.20800	-0.23	20	-80
2442MHz_TnomVnom	Pass	3.44	2.20800	2.20800	0.00	20	-80
2462MHz_TnomVnom	Pass	3.41	2.19280	2.20800	-0.69	20	-80



CSE-TX Unwanted Emission Strength Result

Appendix D

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	P1 (dBm/MHz)	P2 (dBm/MHz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	2.4965G	12.5G	1M	3.13672G	-45.68	-45.93	-42.79	0.05257	-26.02	2.5
802.11g_Nss1_2TX	Pass	2.4835G	2.4965G	1M	2.4835G	-32.79	-32.93	-29.85	1.03535	-16.02	25
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.4835G	2.4965G	1M	2.4835G	-26.60	-25.93	-23.24	4.74046	-16.02	25
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.4835G	2.4965G	1M	2.4835G	-33.57	-32.94	-30.23	0.9477	-16.02	25



CSE-TX Unwanted Emission Strength Result

Appendix D

Result

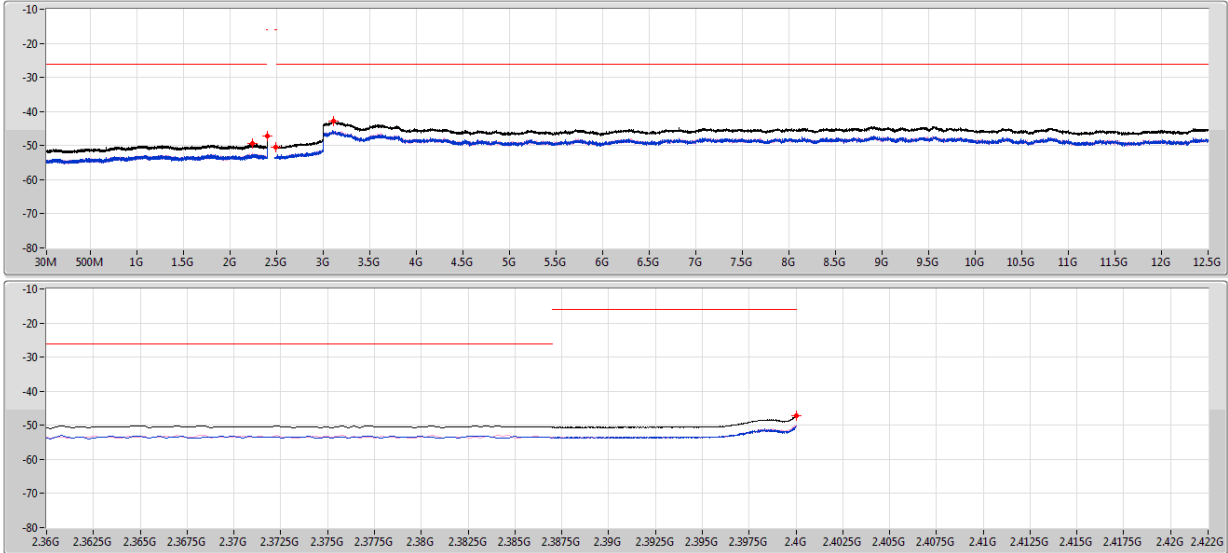
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	P1 (dBm/MHz)	P2 (dBm/MHz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	2.23969G	-52.81	-52.18	-49.47	0.01129	-26.02	2.5
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.4G	-50.09	-50.41	-47.24	0.01889	-16.02	25
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48641G	-53.45	-53.46	-50.44	0.00903	-16.02	25
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.11297G	-45.69	-46.01	-42.84	0.05204	-26.02	2.5
2442MHz_TnomVnom	Pass	30M	2.387G	1M	2.24794G	-52.73	-52.64	-49.67	0.01078	-26.02	2.5
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39984G	-53.66	-53.44	-50.54	0.00883	-16.02	25
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49611G	-53.41	-53.43	-50.41	0.0091	-16.02	25
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.13672G	-45.68	-45.93	-42.79	0.05257	-26.02	2.5
2472MHz_TnomVnom	Pass	30M	2.387G	1M	2.25353G	-52.63	-52.65	-49.63	0.01089	-26.02	2.5
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39724G	-53.58	-53.57	-50.56	0.00878	-16.02	25
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.4835G	-45.39	-44.60	-41.97	0.06358	-16.02	25
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.10296G	-46.15	-45.70	-42.91	0.05118	-26.02	2.5
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	2.26561G	-54.18	-54.16	-51.16	0.00766	-26.02	2.5
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39997G	-37.32	-37.62	-34.46	0.35833	-16.02	25
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49608G	-54.46	-54.96	-51.69	0.00677	-16.02	25
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.14673G	-47.86	-47.74	-44.79	0.03319	-26.02	2.5
2442MHz_TnomVnom	Pass	30M	2.387G	1M	2.25383G	-54.28	-54.26	-51.26	0.00748	-26.02	2.5
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.3988G	-54.75	-54.77	-51.75	0.00668	-16.02	25
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49627G	-54.45	-54.85	-51.64	0.00686	-16.02	25
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.12047G	-48.03	-47.70	-44.85	0.03272	-26.02	2.5
2472MHz_TnomVnom	Pass	30M	2.387G	1M	2.36844G	-54.12	-54.42	-51.26	0.00749	-26.02	2.5
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39974G	-54.94	-54.91	-51.91	0.00643	-16.02	25
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.4835G	-32.79	-32.93	-29.85	1.03535	-16.02	25
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.10796G	-47.53	-47.99	-44.74	0.03355	-26.02	2.5
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	1.77389G	-50.16	-54.90	-48.90	0.01287	-26.02	2.5
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.4G	-33.49	-33.52	-30.49	0.89234	-16.02	25
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49627G	-54.36	-54.67	-51.50	0.00708	-16.02	25
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.11672G	-47.35	-47.70	-44.51	0.03539	-26.02	2.5
2442MHz_TnomVnom	Pass	30M	2.387G	1M	2.24617G	-54.28	-54.03	-51.14	0.00769	-26.02	2.5
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39943G	-54.67	-54.56	-51.60	0.00691	-16.02	25
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49614G	-54.22	-54.75	-51.47	0.00713	-16.02	25
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.10546G	-47.63	-47.53	-44.57	0.03492	-26.02	2.5
2472MHz_TnomVnom	Pass	30M	2.387G	1M	2.30657G	-54.67	-53.14	-50.83	0.00826	-26.02	2.5
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39958G	-54.84	-53.71	-51.23	0.00754	-16.02	25
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.4835G	-26.60	-25.93	-23.24	4.74046	-16.02	25
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.12422G	-47.66	-47.73	-44.68	0.03401	-26.02	2.5
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	30M	2.387G	1M	2.387G	-53.25	-52.26	-49.72	0.01067	-26.02	2.5
2422MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.4G	-40.14	-39.73	-36.92	0.20324	-16.02	25
2422MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.49593G	-54.30	-54.85	-51.56	0.00699	-16.02	25
2422MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.12422G	-47.35	-47.80	-44.56	0.035	-26.02	2.5
2442MHz_TnomVnom	Pass	30M	2.387G	1M	2.34605G	-53.41	-54.45	-50.89	0.00815	-26.02	2.5
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39971G	-54.20	-53.51	-50.83	0.00826	-16.02	25
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48366G	-48.90	-48.11	-45.48	0.02834	-16.02	25
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	3.12172G	-47.49	-47.75	-44.61	0.03461	-26.02	2.5
2462MHz_TnomVnom	Pass	30M	2.387G	1M	2.36638G	-53.50	-54.60	-51.00	0.00793	-26.02	2.5
2462MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39779G	-54.66	-54.51	-51.57	0.00696	-16.02	25
2462MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.4835G	-33.57	-32.94	-30.23	0.9477	-16.02	25
2462MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2.4965G	-43.67	-43.15	-40.39	0.09137	-26.02	2.5

802.11b_Nss1_2TX

2412MHz_TnomVnom

CSE-TX

25/12/2020



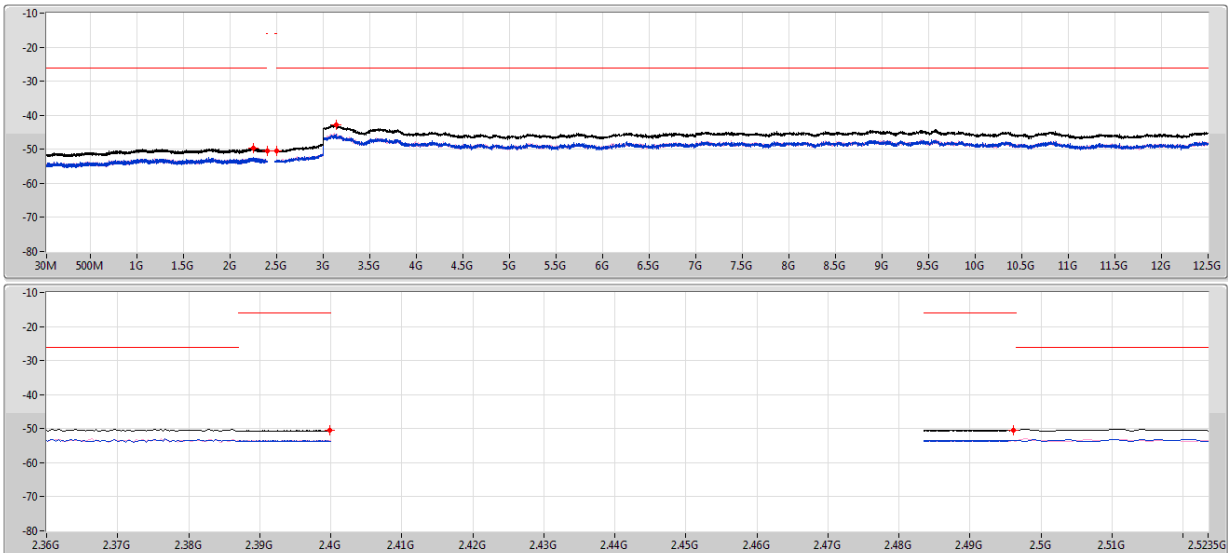
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.23969G	-49.47	-26.02	-23.45	-52.81	-52.18
2.387G	2.4G	2.4G	-47.24	-16.02	-31.22	-50.09	-50.41
2.4835G	2.4965G	2.48641G	-50.44	-16.02	-34.42	-53.45	-53.46
2.4965G	12.5G	3.11297G	-42.84	-26.02	-16.82	-45.69	-46.01

802.11b_Nss1_2TX

2442MHz_TnomVnom

CSE-TX

25/12/2020



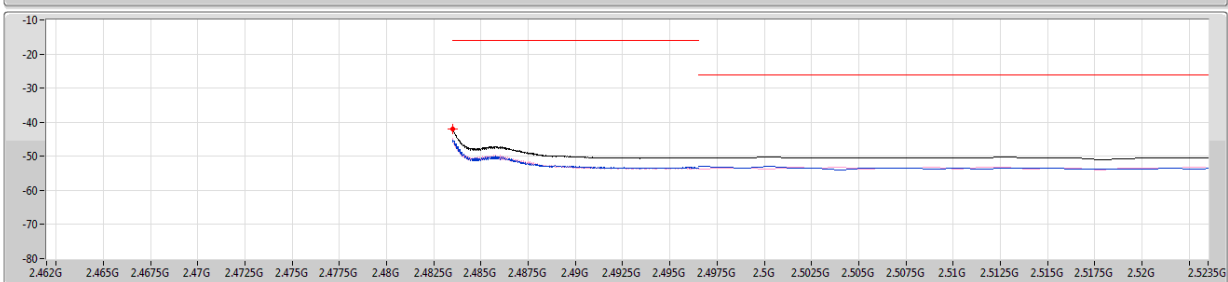
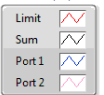
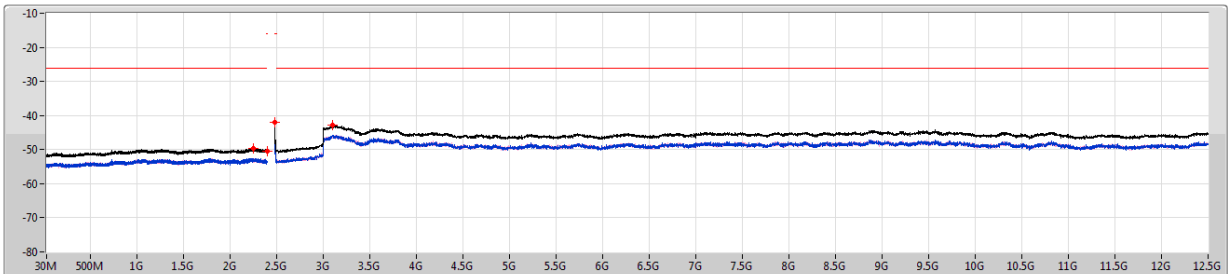
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.24794G	-49.67	-26.02	-23.65	-52.73	-52.64
2.387G	2.4G	2.39984G	-50.54	-16.02	-34.52	-53.66	-53.44
2.4835G	2.4965G	2.49611G	-50.41	-16.02	-34.39	-53.41	-53.43
2.4965G	12.5G	3.113672G	-42.79	-26.02	-16.77	-45.68	-45.93

802.11b_Nss1_2TX

2472MHz_TnomVnom

CSE-TX

25/12/2020



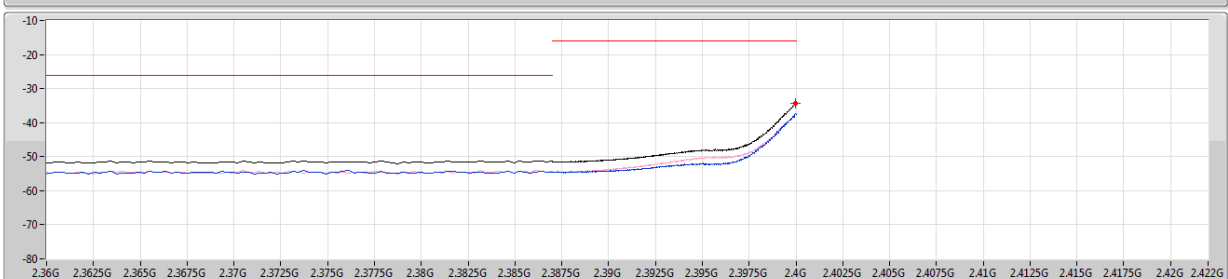
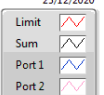
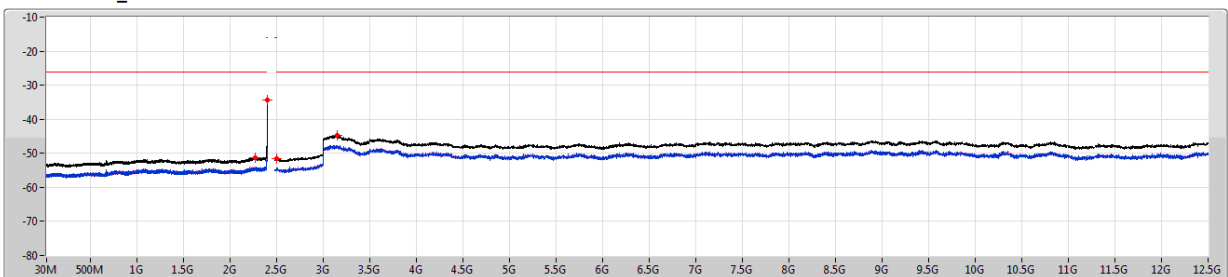
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.25353G	-49.63	-26.02	-23.61	-52.63	-52.65
2.387G	2.4G	2.39724G	-50.56	-16.02	-34.54	-53.58	-53.57
2.4835G	2.4965G	2.4835G	-41.97	-16.02	-25.95	-45.39	-44.60
2.4965G	12.5G	3.10296G	-42.91	-26.02	-16.89	-46.15	-45.70

802.11g_Nss1_2TX

2412MHz_TnomVnom

CSE-TX

25/12/2020



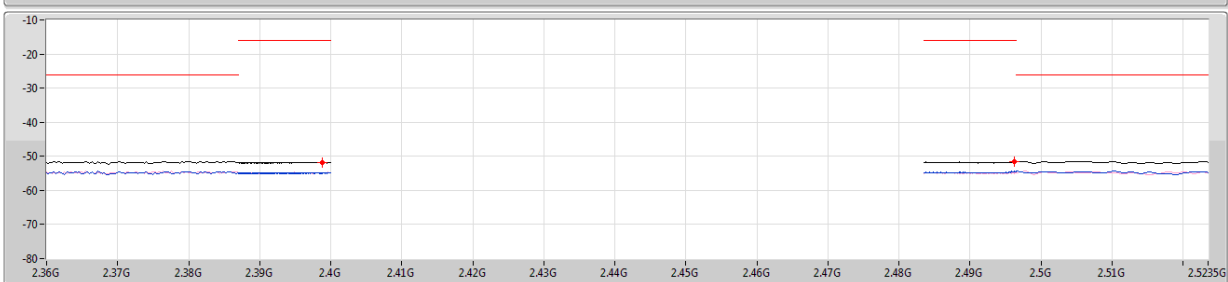
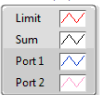
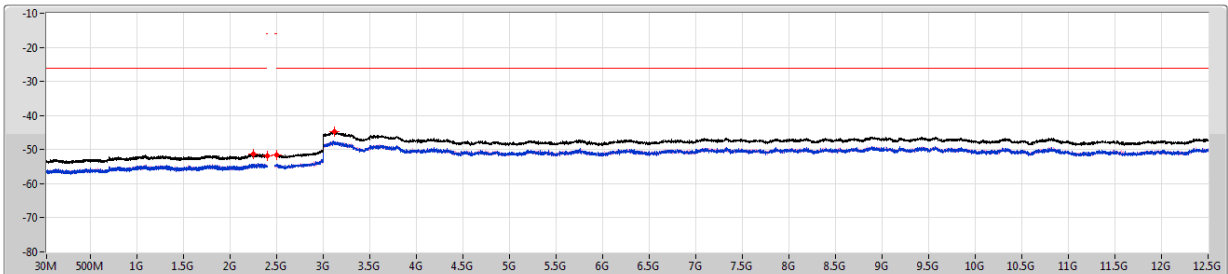
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.26561G	-51.16	-26.02	-25.14	-54.18	-54.16
2.387G	2.4G	2.39997G	-34.46	-16.02	-18.44	-37.32	-37.62
2.4835G	2.4965G	2.49608G	-51.69	-16.02	-35.67	-54.46	-54.96
2.4965G	12.5G	3.14673G	-44.79	-26.02	-18.77	-47.86	-47.74

802.11g_Nss1_2TX

2442MHz_TnomVnom

CSE-TX

25/12/2020



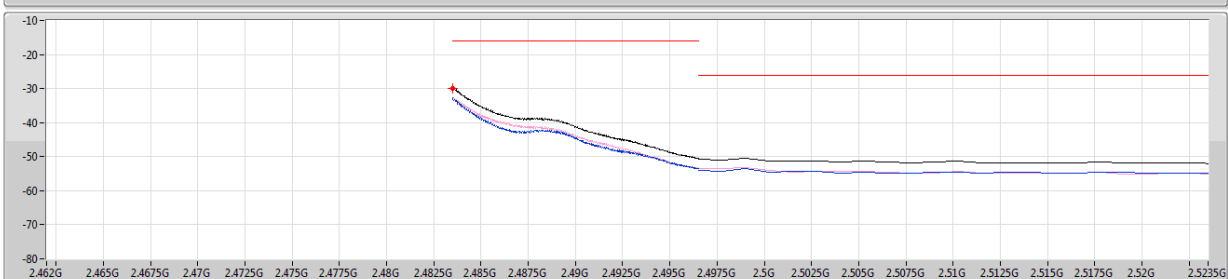
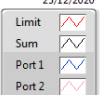
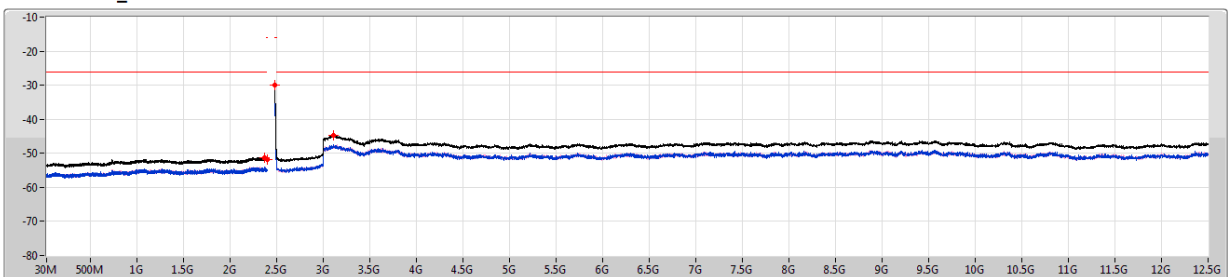
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.25383G	-51.26	-26.02	-25.24	-54.28	-54.26
2.387G	2.4G	2.3988G	-51.75	-16.02	-35.73	-54.75	-54.77
2.4835G	2.4965G	2.48627G	-51.64	-16.02	-35.62	-54.45	-54.85
2.4965G	12.5G	3.12047G	-44.85	-26.02	-18.83	-48.03	-47.70

802.11g_Nss1_2TX

2472MHz_TnomVnom

CSE-TX

25/12/2020

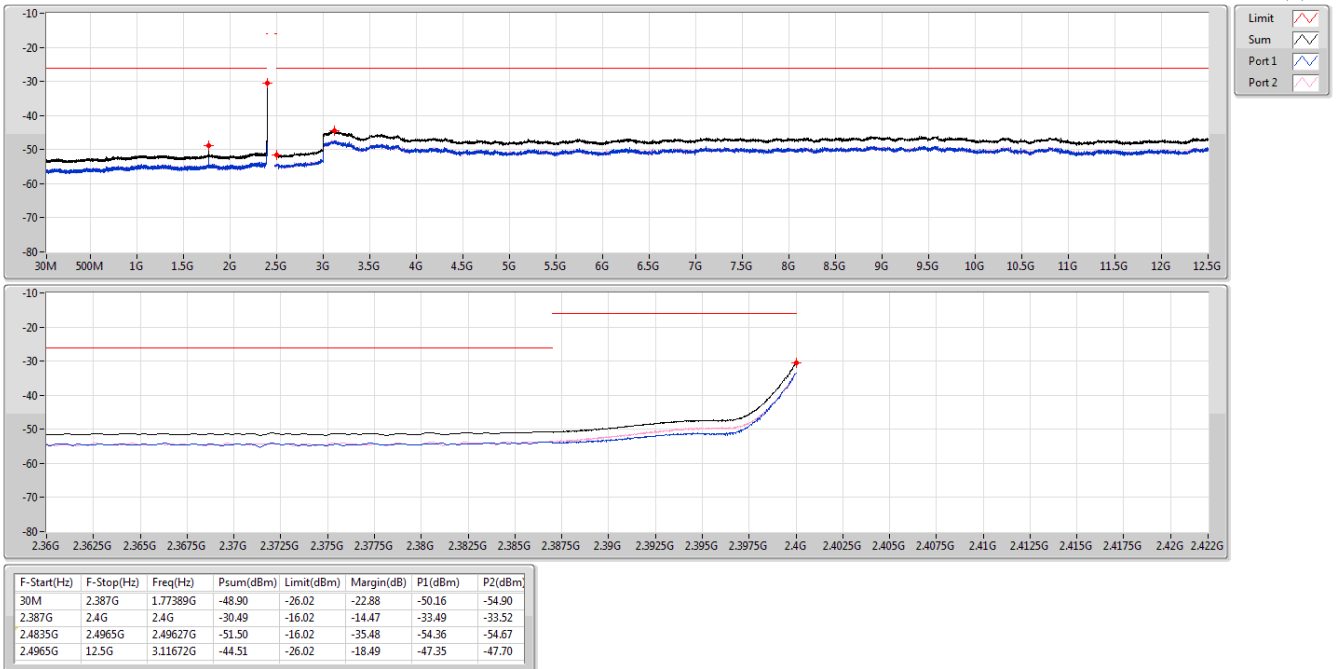


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.36844G	-51.26	-26.02	-25.24	-54.12	-54.42
2.387G	2.4G	2.39974G	-51.91	-16.02	-35.89	-54.94	-54.91
2.4835G	2.4965G	2.4835G	-29.85	-16.02	-13.83	-32.79	-32.93
2.4965G	12.5G	3.10796G	-44.74	-26.02	-18.72	-47.53	-47.99

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE-TX

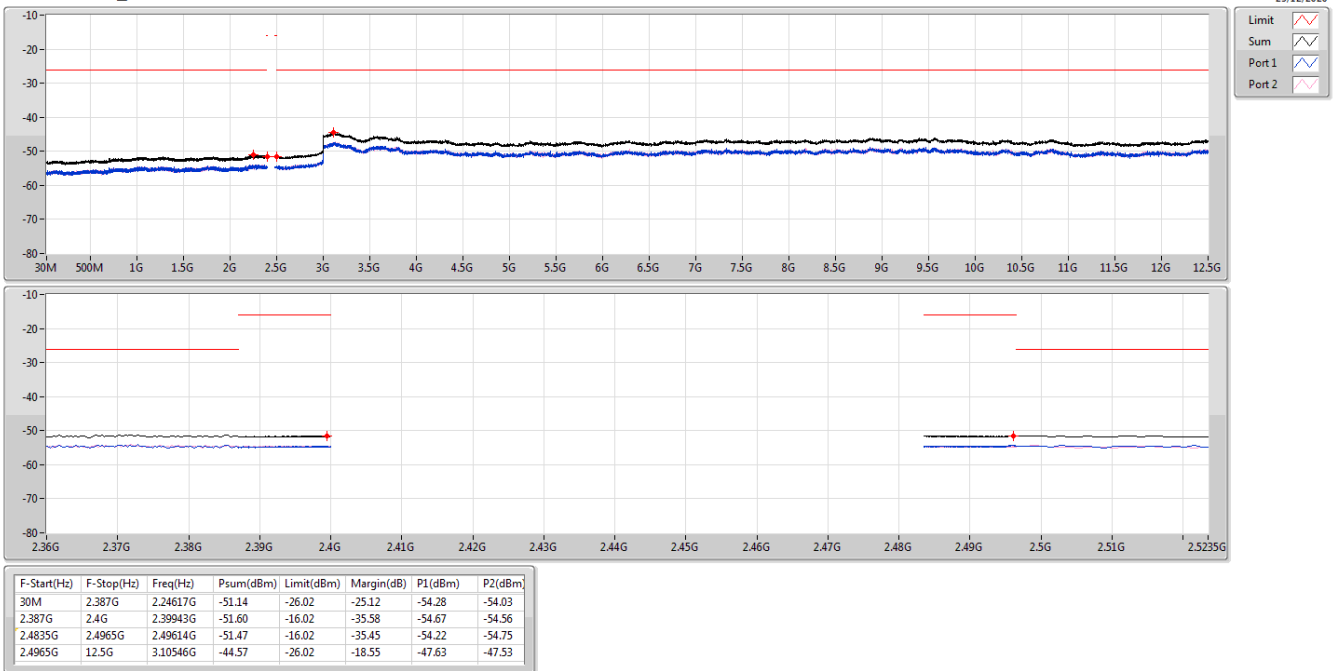
2412MHz_TnomVnom



802.11ax HEW20_Nss1,(MCS0)_2TX

CSE-TX

2442MHz_TnomVnom

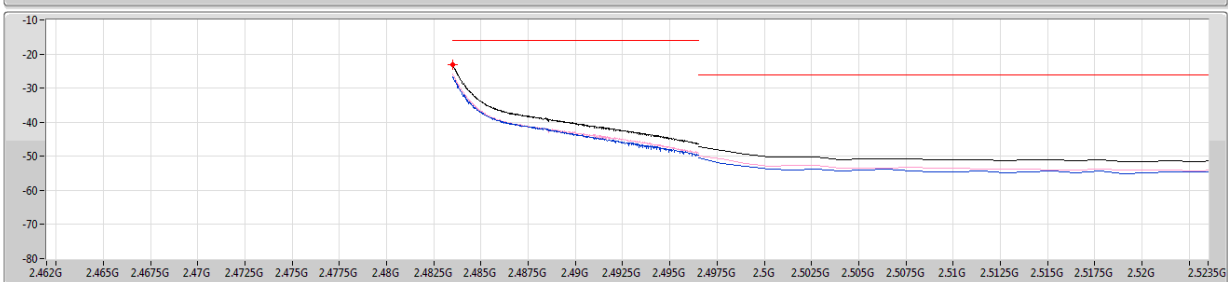
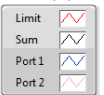
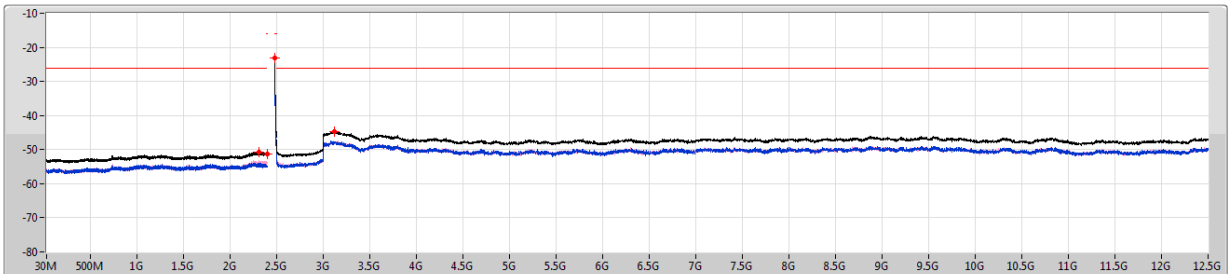


802.11ax HEW20_Nss1,(MCS0)_2TX

2472MHz_TnomVnom

CSE-TX

25/12/2020



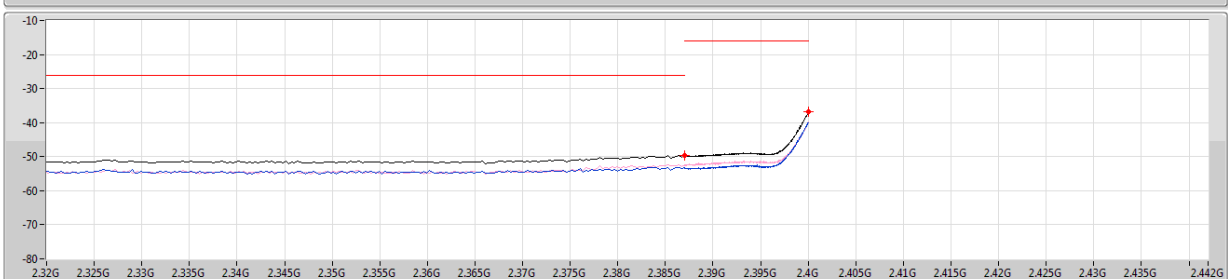
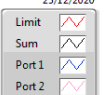
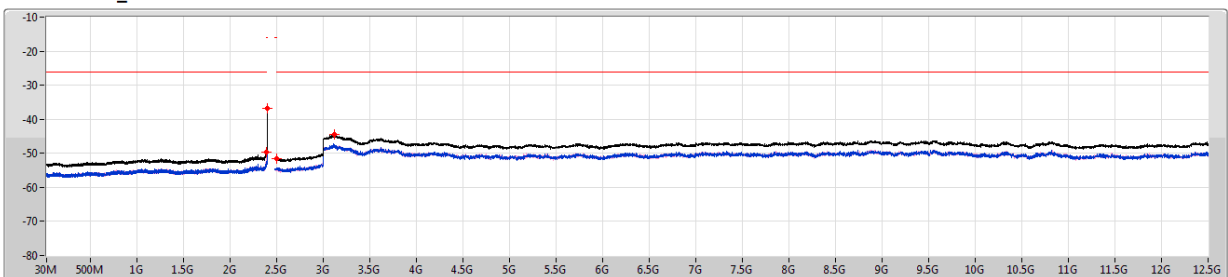
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.30657G	-50.83	-26.02	-24.81	-54.67	-53.14
2.387G	2.4G	2.39958G	-51.23	-16.02	-35.21	-54.84	-53.71
2.4835G	2.4965G	2.4835G	-23.24	-16.02	-7.22	-26.60	-25.93
2.4965G	12.5G	3.12422G	-44.68	-26.02	-18.66	-47.66	-47.73

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TnomVnom

CSE-TX

25/12/2020

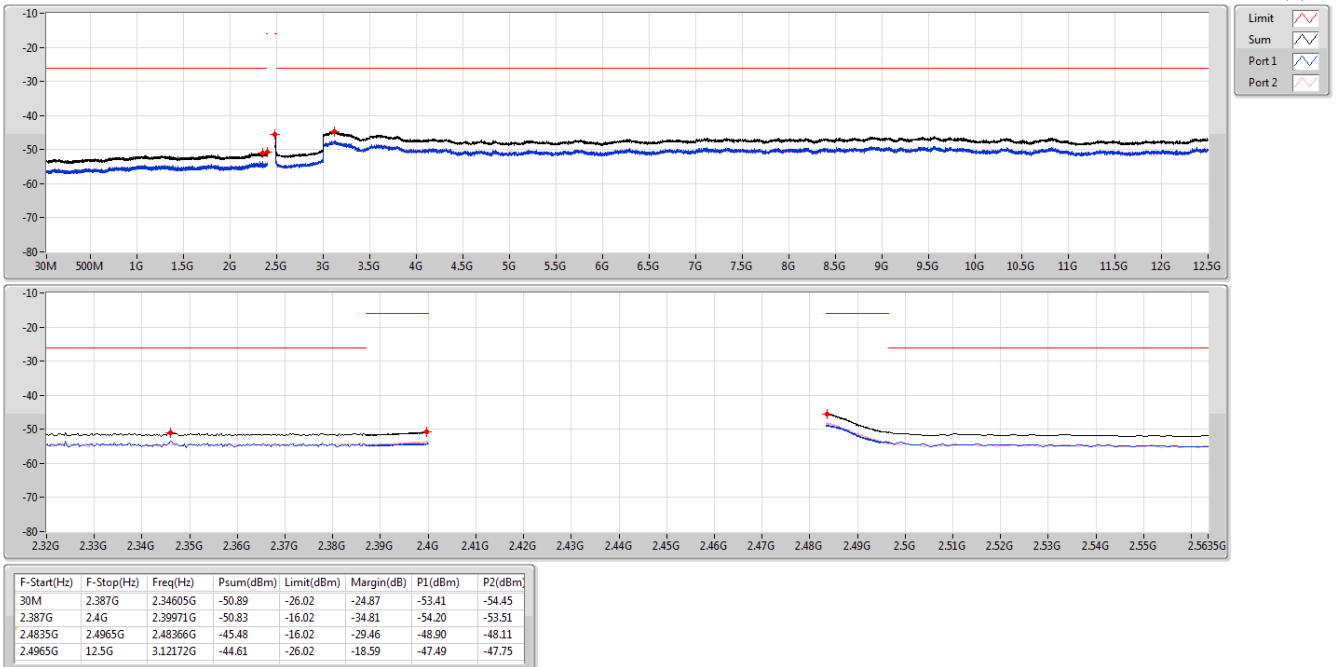


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	2.387G	2.387G	-49.72	-26.02	-23.70	-53.25	-52.26
2.387G	2.4G	2.4G	-36.92	-16.02	-20.90	-40.14	-39.73
2.4835G	2.4965G	2.49593G	-51.56	-16.02	-35.54	-54.30	-54.85
2.4965G	12.5G	3.12422G	-44.56	-26.02	-18.54	-47.35	-47.80

802.11ax HEW40_Nss1,(MCS0)_2TX

CSE-TX

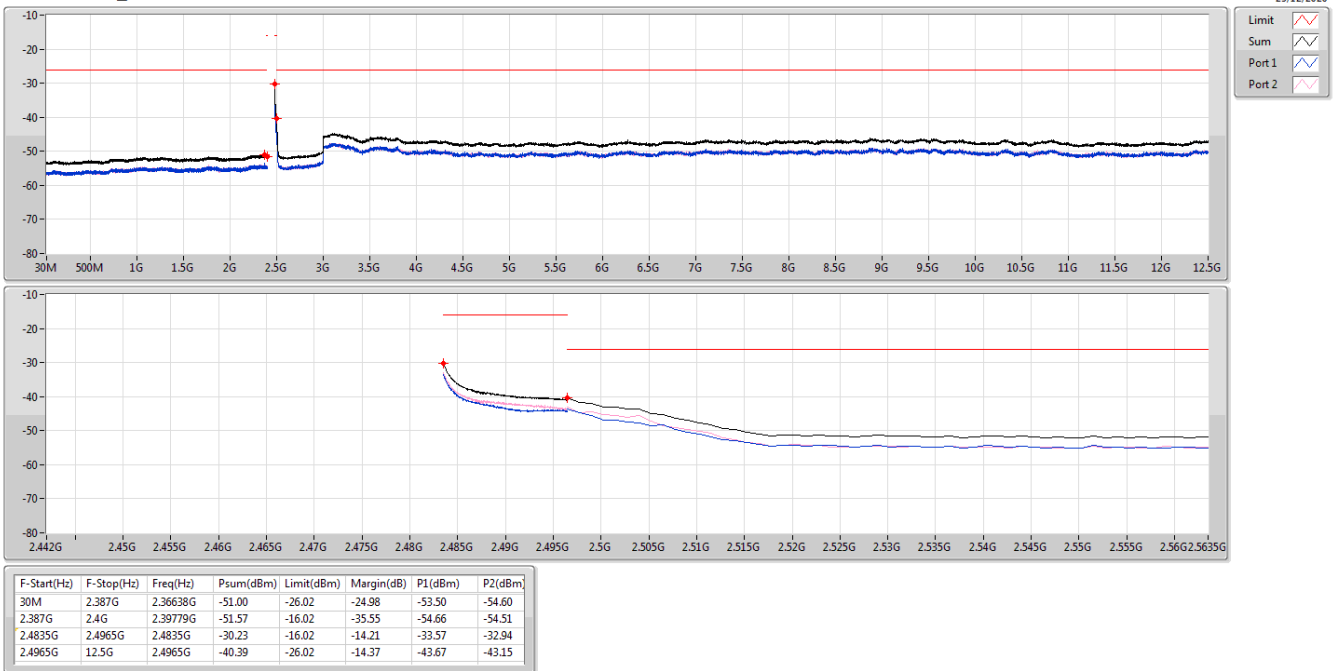
2442MHz_TnomVnom



802.11ax HEW40_Nss1,(MCS0)_2TX

CSE-TX

2462MHz_TnomVnom





CSE-RX Secondary Emissions Result

Appendix E

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	P1 (dBm)	P2 (dBm)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	30M	1G	100k	846.13M	-69.64	-69.92	-66.77	0.2105	-53.98	4
802.11g_Nss1_2TX	Pass	30M	1G	100k	420.3M	-69.30	-70.88	-67.01	0.19915	-53.98	4
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	30M	1G	100k	779.33M	-70.78	-69.37	-67.01	0.19917	-53.98	4
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	30M	1G	100k	102.99M	-69.14	-68.92	-66.02	0.25013	-53.98	4



CSE-RX Secondary Emissions Result

Appendix E

Result

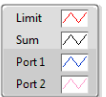
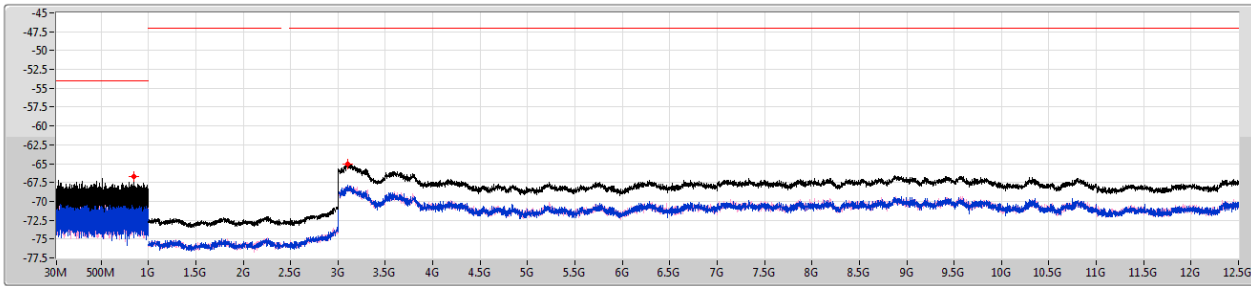
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	P1 (dBm)	P2 (dBm)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	846.13M	-69.64	-69.92	-66.77	0.2105	-53.98	4
2412MHz_TnomVnom	Pass	1G	12.5G	1M	3.1045G	-67.91	-68.32	-65.10	0.30904	-46.99	20
2442MHz_TnomVnom	Pass	30M	1G	100k	542.04M	-71.05	-69.26	-67.05	0.1971	-53.98	4
2442MHz_TnomVnom	Pass	1G	12.5G	1M	3.12319G	-68.09	-68.06	-65.06	0.31155	-46.99	20
2472MHz_TnomVnom	Pass	30M	1G	100k	809.03M	-70.75	-69.54	-67.09	0.19531	-53.98	4
2472MHz_TnomVnom	Pass	1G	12.5G	1M	3.09731G	-67.96	-67.97	-64.95	0.31954	-46.99	20
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	420.3M	-69.30	-70.88	-67.01	0.19915	-53.98	4
2412MHz_TnomVnom	Pass	1G	12.5G	1M	3.10594G	-67.94	-68.20	-65.06	0.31205	-46.99	20
2442MHz_TnomVnom	Pass	30M	1G	100k	109.66M	-69.28	-71.04	-67.06	0.19674	-53.98	4
2442MHz_TnomVnom	Pass	1G	12.5G	1M	3.12463G	-67.86	-67.81	-64.82	0.32926	-46.99	20
2472MHz_TnomVnom	Pass	30M	1G	100k	810.49M	-71.45	-69.37	-67.28	0.18723	-53.98	4
2472MHz_TnomVnom	Pass	1G	12.5G	1M	3.12463G	-67.93	-68.08	-64.99	0.31666	-46.99	20
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	193.08M	-69.26	-71.25	-67.13	0.19357	-53.98	4
2412MHz_TnomVnom	Pass	1G	12.5G	1M	3.09156G	-67.88	-68.11	-64.98	0.31746	-46.99	20
2442MHz_TnomVnom	Pass	30M	1G	100k	108.57M	-69.93	-70.74	-67.31	0.18596	-53.98	4
2442MHz_TnomVnom	Pass	1G	12.5G	1M	3.11456G	-67.93	-67.94	-64.92	0.32176	-46.99	20
2472MHz_TnomVnom	Pass	30M	1G	100k	779.33M	-70.78	-69.37	-67.01	0.19917	-53.98	4
2472MHz_TnomVnom	Pass	1G	12.5G	1M	3.10306G	-67.77	-68.27	-65.00	0.31605	-46.99	20
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	30M	1G	100k	102.99M	-69.14	-68.92	-66.02	0.25013	-53.98	4
2422MHz_TnomVnom	Pass	1G	12.5G	1M	3.10306G	-67.82	-67.91	-64.85	0.327	-46.99	20
2442MHz_TnomVnom	Pass	30M	1G	100k	971.26M	-69.84	-68.76	-66.26	0.2368	-53.98	4
2442MHz_TnomVnom	Pass	1G	12.5G	1M	3.10019G	-68.75	-67.44	-65.04	0.31365	-46.99	20
2462MHz_TnomVnom	Pass	30M	1G	100k	911.97M	-70.23	-68.74	-66.41	0.2285	-53.98	4
2462MHz_TnomVnom	Pass	1G	12.5G	1M	3.09444G	-67.75	-67.79	-64.76	0.33422	-46.99	20

802.11b_Nss1_2TX

2412MHz_TnomVnom

CSE-RX

25/12/2020



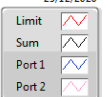
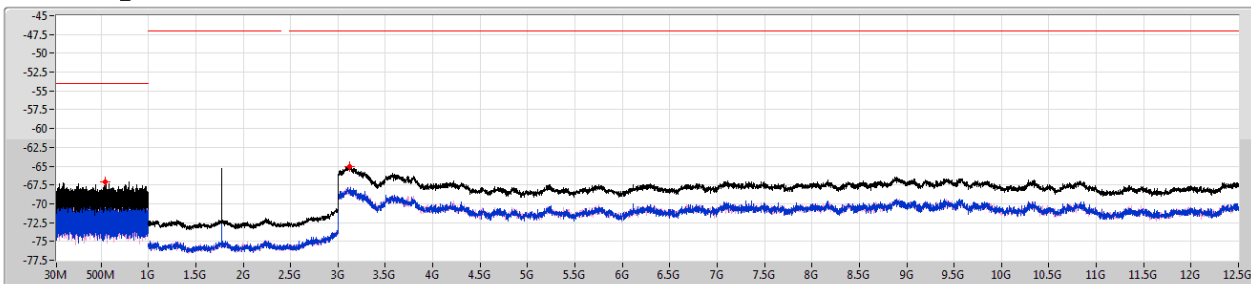
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	846.13M	-66.77	-53.98	-12.79	-69.64	-69.92
1G	12.5G	3.1045G	-65.10	-46.99	-18.11	-67.91	-68.32

802.11b_Nss1_2TX

2442MHz_TnomVnom

CSE-RX

25/12/2020



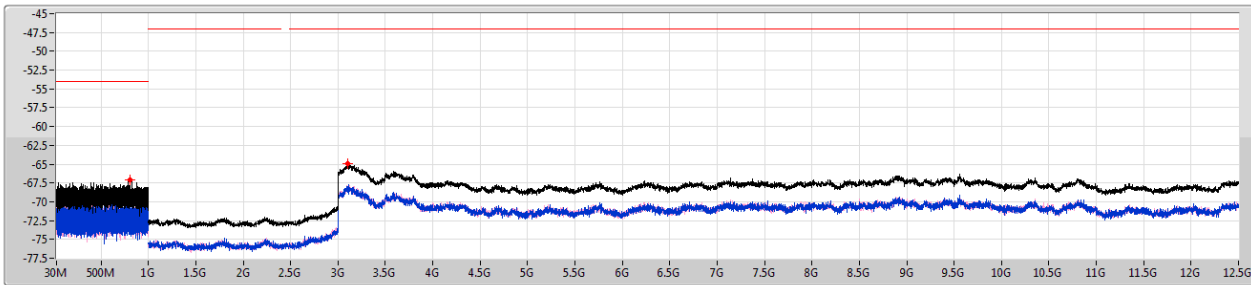
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	542.04M	-67.05	-53.98	-13.07	-71.05	-69.26
1G	12.5G	3.12319G	-65.06	-46.99	-18.07	-68.09	-68.06

802.11b_Nss1_2TX

2472MHz_TnomVnom

CSE-RX

25/12/2020



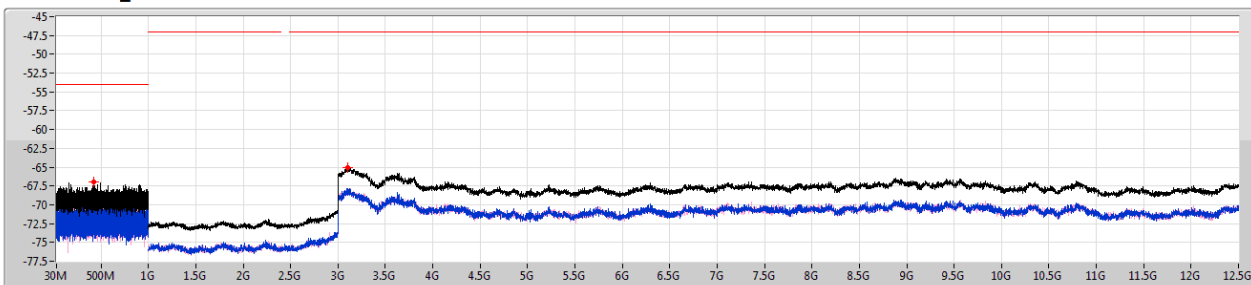
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	809.03M	-67.09	-53.98	-13.11	-70.75	-69.54
1G	12.5G	3.09731G	-64.95	-46.99	-17.96	-67.96	-67.97

802.11g_Nss1_2TX

2412MHz_TnomVnom

CSE-RX

25/12/2020



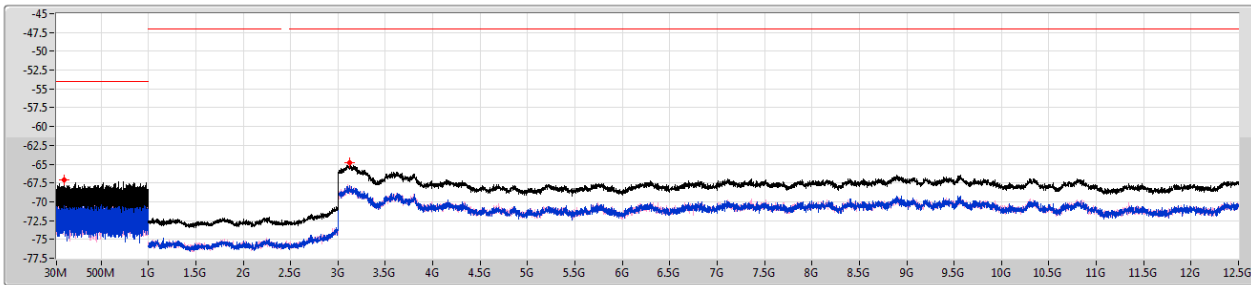
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	420.3M	-67.01	-53.98	-13.03	-69.30	-70.88
1G	12.5G	3.10594G	-65.06	-46.99	-18.07	-67.94	-68.20

802.11g_Nss1_2TX

2442MHz_TnomVnom

CSE-RX

25/12/2020



Limit	
Sum	
Port 1	
Port 2	

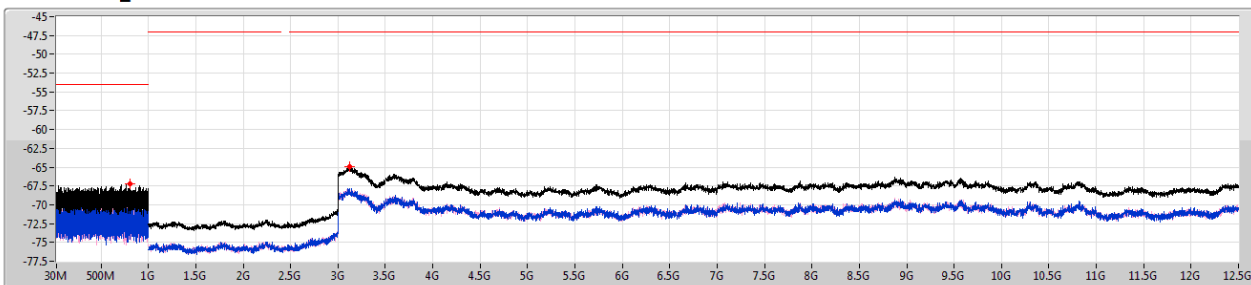
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	109.66M	-67.06	-53.98	-13.08	-69.28	-71.04
1G	12.5G	3.12463G	-64.82	-46.99	-17.83	-67.86	-67.81

802.11g_Nss1_2TX

2472MHz_TnomVnom

CSE-RX

25/12/2020



Limit	
Sum	
Port 1	
Port 2	

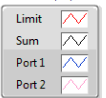
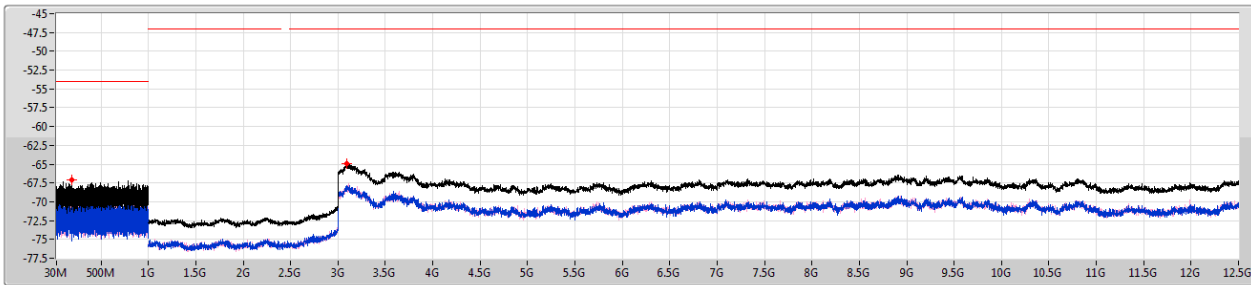
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	810.49M	-67.28	-53.98	-13.30	-71.45	-69.37
1G	12.5G	3.12463G	-64.99	-46.99	-18.00	-67.93	-68.08

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE-RX

2412MHz_TnomVnom

25/12/2020



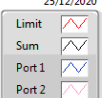
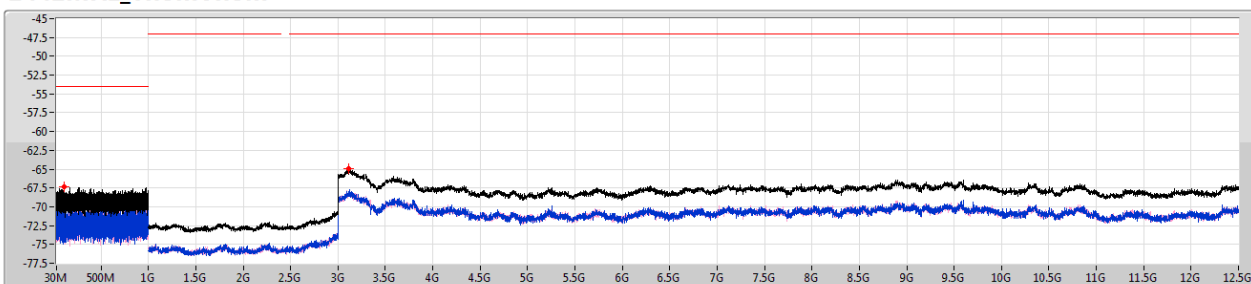
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	193.08M	-67.13	-53.98	-13.15	-69.26	-71.25
1G	12.5G	3.09156G	-64.98	-46.99	-17.99	-67.88	-68.11

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE-RX

2442MHz_TnomVnom

25/12/2020



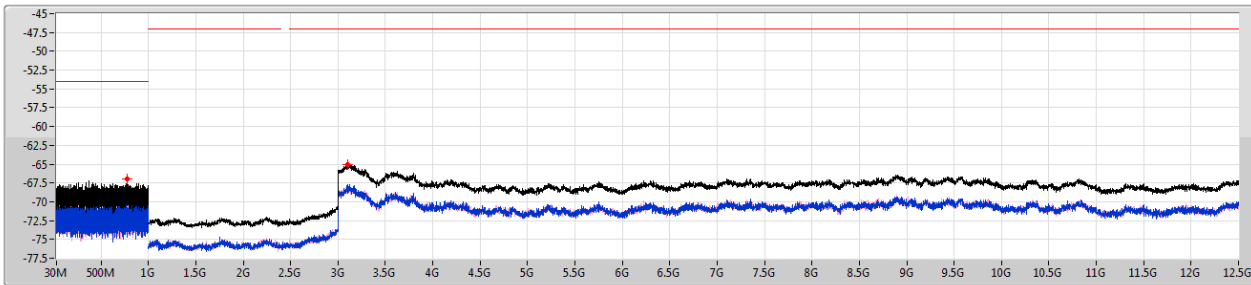
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	108.57M	-67.31	-53.98	-13.33	-69.93	-70.74
1G	12.5G	3.11456G	-64.92	-46.99	-17.93	-67.93	-67.94

802.11ax HEW20_Nss1,(MCS0)_2TX

CSE-RX

2472MHz_TnomVnom

25/12/2020



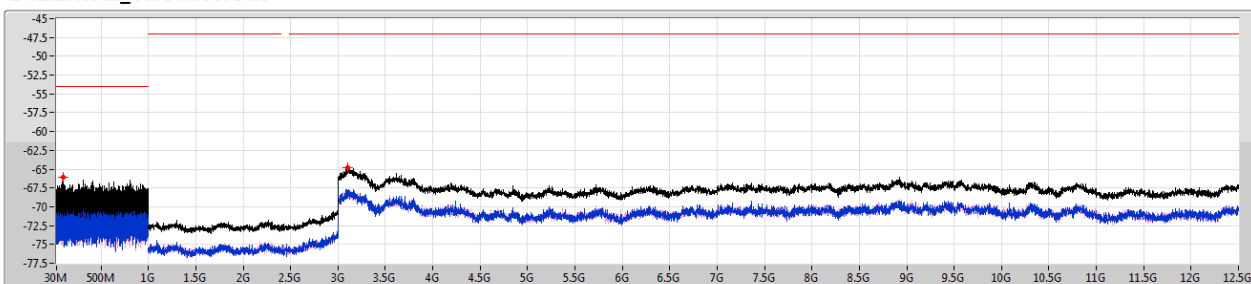
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	779.33M	-67.01	-53.98	-13.03	-70.78	-69.37
1G	12.5G	3.10306G	-65.00	-46.99	-18.01	-67.77	-68.27

802.11ax HEW40_Nss1,(MCS0)_2TX

CSE-RX

2422MHz_TnomVnom

25/12/2020



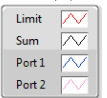
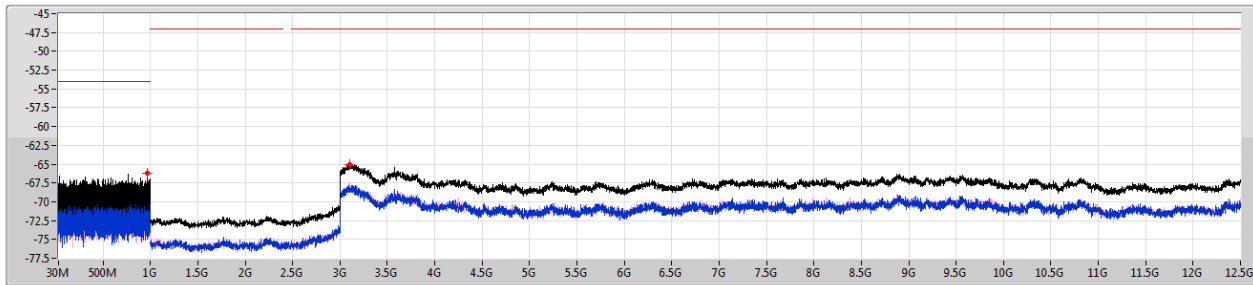
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
30M	1G	102.99M	-66.02	-53.98	-12.04	-69.14	-68.92
1G	12.5G	3.10306G	-64.85	-46.99	-17.86	-67.82	-67.91

802.11ax HEW40_Nss1,(MCS0)_2TX

CSE-RX

2442MHz_TnomVnom

25/12/2020

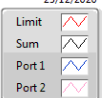
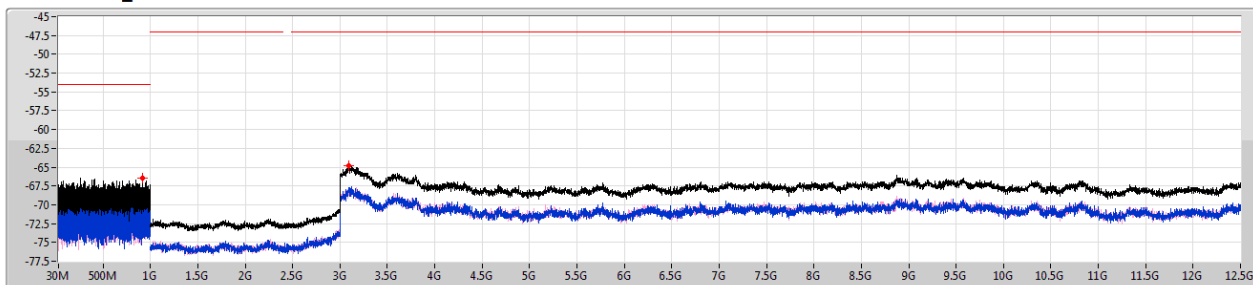


802.11ax HEW40_Nss1,(MCS0)_2TX

CSE-RX

2462MHz_TnomVnom

25/12/2020



Summary

Mode	Result	MAC (ID Length)	ID Limit	Function
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_2TX	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11g_Nss1_2TX	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	00:03:7F:12:7C:0F	48 bits	Good

Result

Mode	Result	MAC (ID Length)	ID Limit	Function
802.11b_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2442MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2472MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11g_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2442MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2472MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2442MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2472MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-
2422MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2442MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good
2462MHz_TnomVnom	Pass	00:03:7F:12:7C:0F	48 bits	Good



Carrier Sensing Function Result

Appendix G

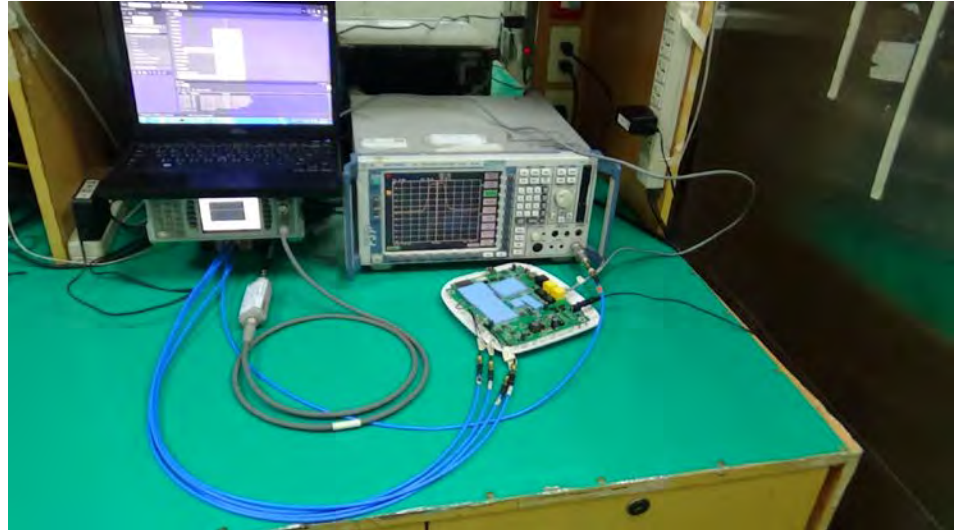
Summary

Mode	Result	Interference Pin (dBm)	Function
2.4-2.4835GHz	-	-	-
802.11b_Nss1_2TX	Pass	OBW<26MHz	w/o test
802.11g_Nss1_2TX	Pass	OBW<26MHz	w/o test
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	OBW<26MHz	w/o test
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	Undefined	Good

Result

Mode	Result	Interference Pin (dBm)	Function
802.11b_Nss1_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11g_Nss1_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-
2422MHz_TnomVnom	Pass	Undefined	Good
2442MHz_TnomVnom	Pass	Undefined	Good
2462MHz_TnomVnom	Pass	Undefined	Good

1. Photographs of Test Configuration



————THE END————