



# MIC Test Report

**Equipment** : MetroLinq 10G Tri-band Omni  
**Brand Name** : IgniteNet  
**Model No.** : ML-60-10G-360  
**Standard** : MIC Certification Rule, Article 2 Paragraph 1 Item 19  
**Category** : WW  
**Frequency Range** : 2400 – 2483.5 MHz  
**Applicant** : Accton Technology Corporation  
No. 1, Creation 3rd Rd., Science-based Industrial Park,  
HsinChu 300, Taiwan, R.O.C.  
**Manufacturer (1)** : Joy Technology (Shen Zhen) Co., Ltd.  
HengKeng Ind., Shangpai, Shangwu, Aiqun Rd., Shiyan  
Town, Shenzhen 518108 China  
**Manufacturer (2)** : Accton Technology CorporationNo. 1, Creation 3rd Rd.,  
Science-based Industrial Park, HsinChu 300, Taiwan,  
R.O.C.

The product sample received on Jan. 15, 2018 and completely tested on Feb. 10, 2018. We, SPORTON, 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 and ARIB STD-T66 technical standards.

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

  
Cliff Chang  
SPORTON INTERNATIONAL INC.

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## Summary of Test Result

MIC Regulations Requirements				
Report Clause	Ref. Std. Article	Description	Measured	Result
1.1.1	RLE:6	Frequency Band	refer to RF info.	Complied
3.1	ORE:5	Frequency Error	refer to test data within 50ppm	Complied
3.2	ORE:6	Occupied Bandwidth	refer to test data	Complied
3.2	ORE:49.20	Spread Bandwidth / Factor	refer to test data	Complied
3.3	ORE:49.20	Antenna Power	refer to test data	Complied
3.3	ORE:14	Antenna Power Error	refer to test data within +20~-80%	Complied
-	ORE:49.20	Antenna Beamwidth, EIRP Limit <sup>*1</sup>	-	N/A
-	ORE:49.20	Radiated EIRP <sup>*1</sup>	-	N/A
3.4	ORE:7, Table 3	Transmitter Spurious Emissions	refer to test data	Complied
3.5	ORE:24	Receiver Spurious Emissions	refer to test data	Complied
3.6	TR:9	Identification Code	48 bits	Complied
3.7	TR:9	Carrier Sense <sup>*2</sup>	refer to test data	Complied
3.8	ORE:49.20	EUT Construction Protection	Refer test report clause 3.8	Complied
<p>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  <sup>*1</sup>: 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.  <sup>*2</sup>: If OFDM modulation and Occupied Bandwidth ≥ 26MHz, Carrier Sense shall be performed.</p>				

## Revision History

[illegible]

# 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), ac (VHT20),	2412-2472	1-13 [13]
2400-2483.5	n (HT40), ac (VHT40),	2422-2462	3-11 [9]

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

**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.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

Mode	Declared Power (mW/MHz)
802.11b_Nss1_4TX	2.07
802.11g_Nss1_4TX	2.08
802.11ac VHT20_Nss1,(MCS0)_4TX	2.09
802.11ac VHT40_Nss1,(MCS0)_4TX	1.05

**1.1.2 Antenna Information**

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	2.4GHz Gain (dBi)
1	1	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.5
	2					8.9
2	3	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.9
	4					8.5
3	5	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.5
	6					8.9
4	7	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.9
	8					8.5

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	5GHz Gain (dBi)
1	1	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	5
	2					8.1
2	3	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.1
	4					5
3	5	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	5
	6					8.1
4	7	Accton	OAP9432FA-3AD-0617-ACN	PCB Patch	MMCX	8.1
	8					5

Ant.	Brand	Model Name	Antenna Type	Connector	60GHz Gain (dBi)
1	Accton	120300000225X	Chip Ant.	N/A	17.2

Note: The EUT has eight antennas for WLAN.

The device contains 60GHz approval module.

**For 2.4GHz function:**

Both of Chain 1 ~ Chain 8 can be used as transmitting/receiving functions, but only four antenna can be used as transmitting/receiving functions at one time.

Chain 2 (Port 1), Chain 3 (Port 2), Chain 6 (Port 3) and Chain 7 (Port 4) generated the worst case, so it is tested and recorded in the report.

**For 5GHz function:**

Both of Chain 1 ~ Chain 8 can be used as transmitting/receiving functions, but only four antenna can be used as transmitting/receiving functions at one time.

Chain 2 (Port 1), Chain 3 (Port 2), Chain 6 (Port 3) and Chain 7 (Port 4) generated the worst case, so it is tested and recorded in the report.

### 1.1.3 EUT Information

<b>EUT Power Type</b>	From PoE or DC 48V
<b>Test Software Version</b>	QCARCT Version3.0.264.0

### 1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b_Nss1_4TX	0.994	0.026
802.11g_Nss1_4TX	0.972	0.123
802.11ac VHT20_Nss1,(MCS0)_4TX	0.986	0.061
802.11ac VHT40_Nss1,(MCS0)_4TX	0.965	0.155

### 1.1.5 Power Supply Voltage Fluctuation

Fluctuation	AC Input Power(V)	DC Output Power(V)	Variation (%)
Normal Vol	100	48	-
High Vol	110	47.8	-0.4166
Low Vol	90	47.7	-0.6250

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 Testing Applied 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		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Serway Li	20°C / 56%	Feb. 10, 2018

## 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	1.7 dB	Confidence levels of 95%
Radio frequency	$6.6 \times 10^{-8}$ MHz	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1_4TX	-
2412MHz	4.5
2442MHz	4.5
2472MHz	5
802.11g_Nss1_4TX	-
2412MHz	8.5
2442MHz	8.5
2472MHz	8.5
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2412MHz	9
2442MHz	9
2472MHz	9
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2422MHz	7.5
2442MHz	7.5
2462MHz	7.5

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

## 2.2 The Worst Case Measurement Configuration

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

Note:

1. The EUT can only be used at Y axis position.
2. The PoE is for measurement only, would not be marketed, and its information as below:

Equipment	Brand Name	Model Name	FCC ID
PoE	GME	GME40B-4801135FDA	DoC

## 2.3 EUT Operation during Test

During the test, "QCARCT Version3.0.264.0" under Win 7 was executed the test program to control the EUT continuously transmit/receive RF signal.

## 2.4 Accessories

Wall-mounted rack\*1

## 2.5 Support Equipment

For others test:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E4300	DoC
2	PoE	GME	GME40B-4801135FDA	DoC

For Carrier Sensing Function test:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	WLAN AP	Netgear	R7500	PY314300288
2	Notebook	DELL	E4300	DoC
3	Notebook	DELL	E4300	DoC
4	PoE	GME	GME40B-4801135FDA	DoC

### 3 Test Result

#### 3.1 Frequency Error

##### 3.1.1 Frequency Error Limit

Frequency Error Limit
$\leq \pm 50$ ppm

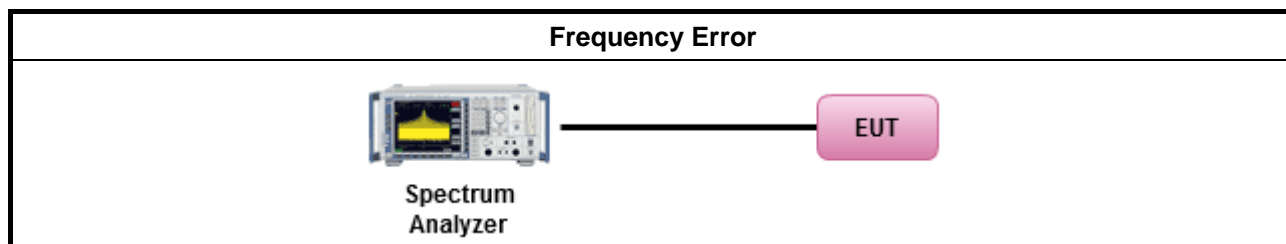
##### 3.1.2 Measuring Instruments

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	38 MHz
Other	26 MHz

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

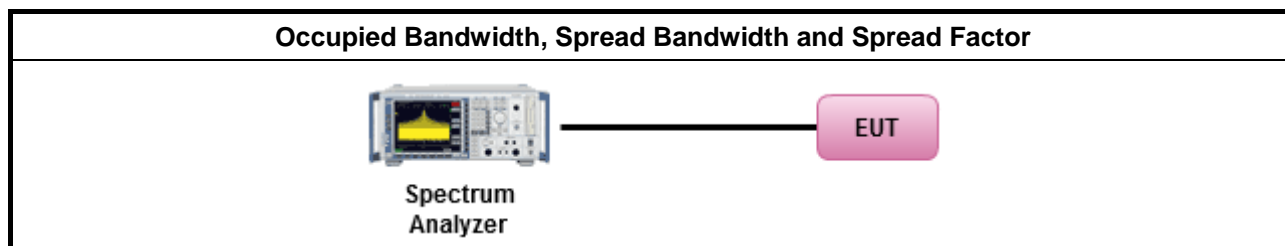
### 3.2.2 Measuring Instruments

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 $\leq$ 38MHz] $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)

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

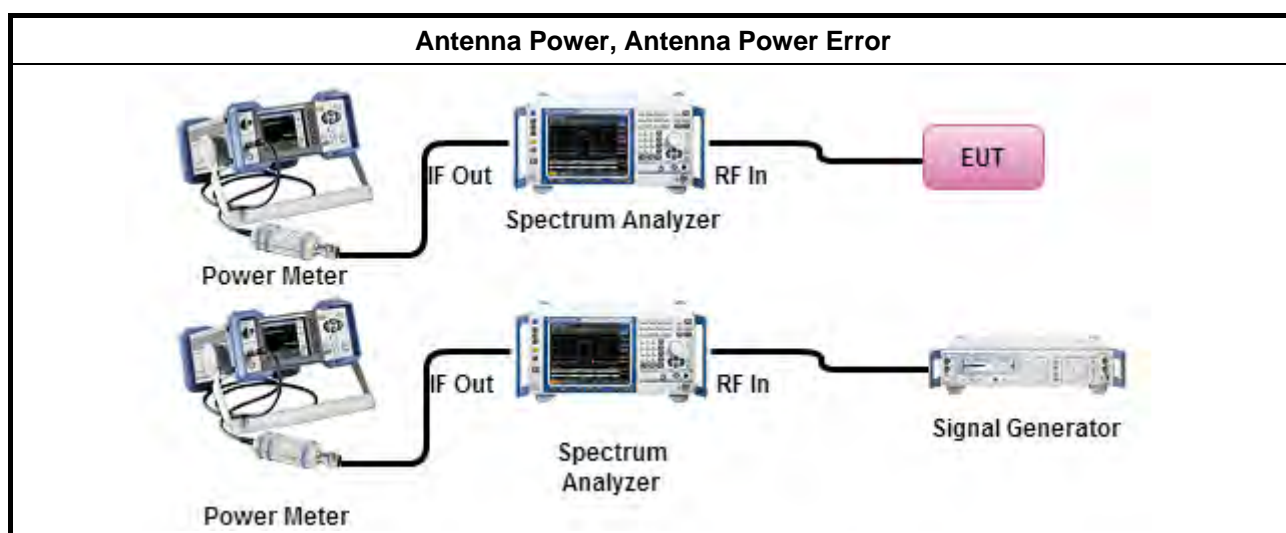
#### 3.3.2 Measuring Instruments

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

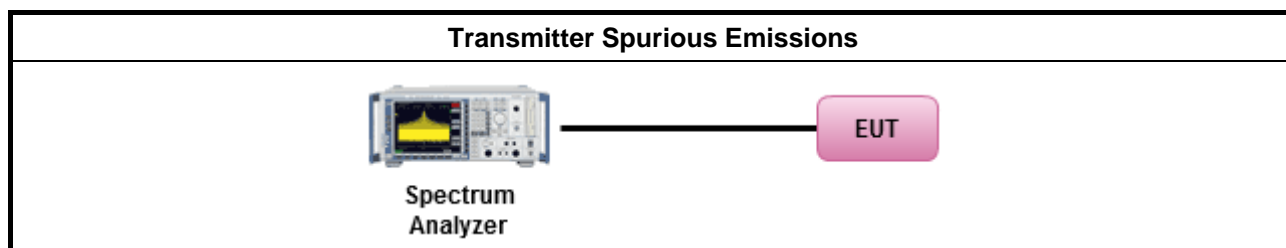
#### 3.4.2 Measuring Instruments

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

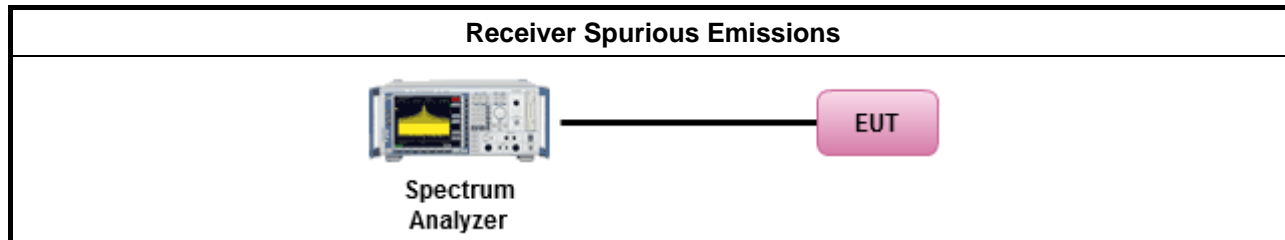
#### 3.5.2 Measuring Instruments

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
$\leq 48$ bits

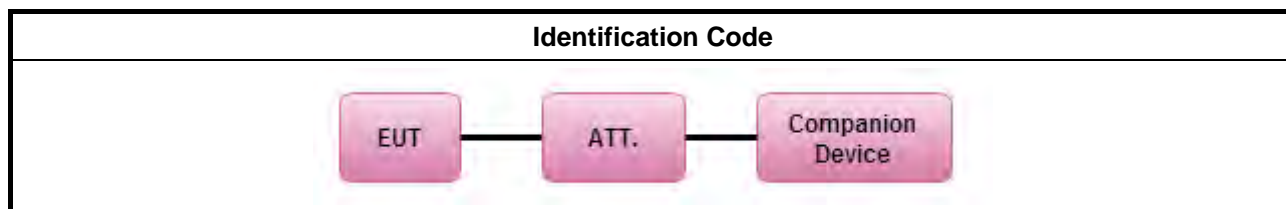
#### 3.6.2 Measuring Instruments

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])

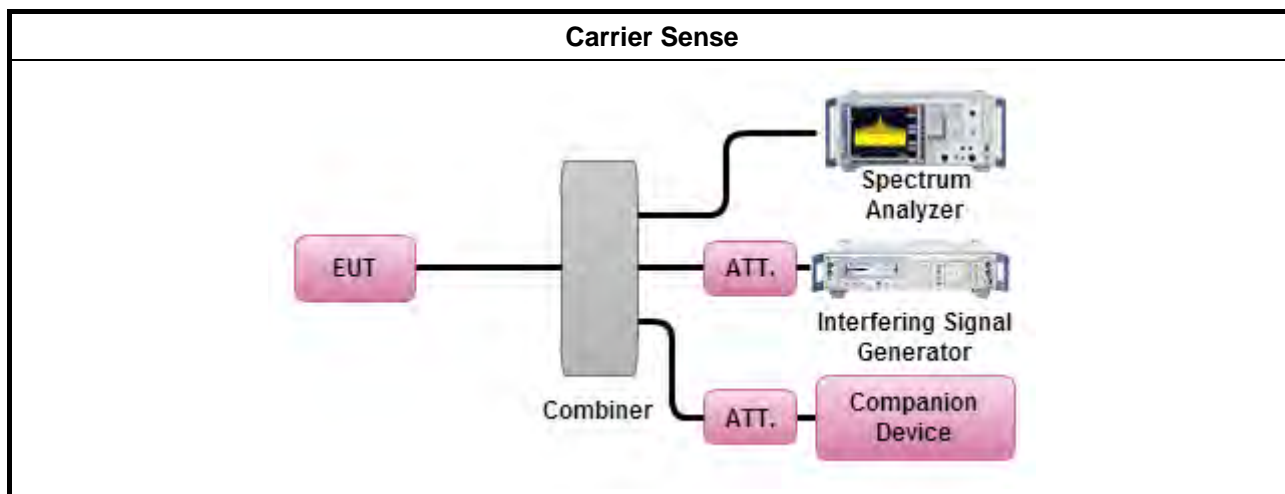
#### 3.7.2 Measuring Instruments

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

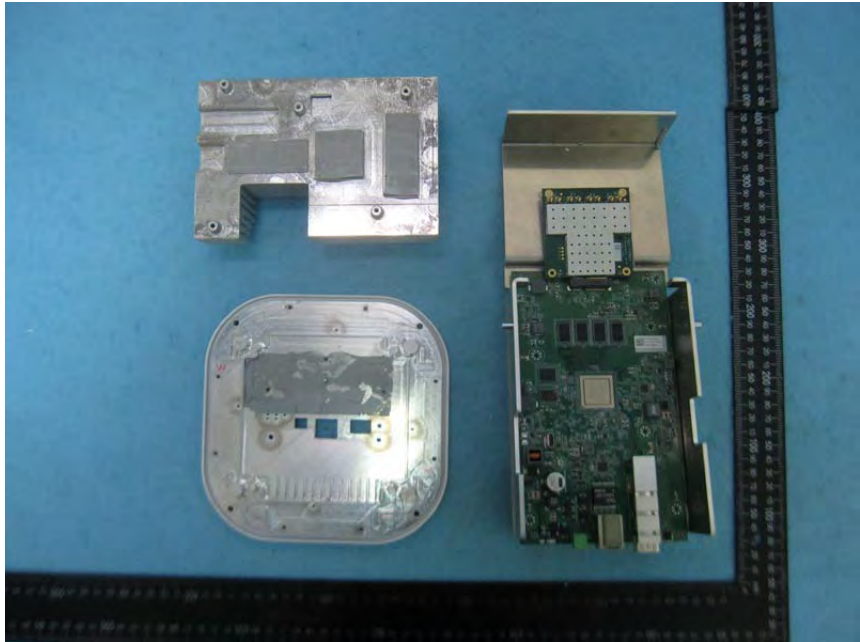
#### 3.8.1 EUT Construction Protection Limit

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

<p><b>Photo</b></p>	
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## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Calibration Method	Calibration Agent Name	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	c)	A	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-93101 1	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	c)	A	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~ 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY5341000 1	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	c)	A	Conducted (TH01-CB)
LCR Meter	Lutron	LCR-9083	I.402812	N/A	Oct. 20, 2017	Oct. 19, 2018	c)	A	Conducted (TH01-CB)
Signal Generator	R&S	SMR40	100302	10MHz-40GHz	Dec. 01, 2017	Nov. 30, 2018	c)	A	Conducted (TH01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-DV-02	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-DV-03	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-DV-01	1GHz ~ 6GHz	Oct. 11, 2017	Oct. 10, 2018	c)	B	Conducted (TH01-CB)

### Note:

- Calibration Interval of instruments listed above is one year.
- N.C.R. means Non-Calibration required.
- 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.
- Calibration Method
  - Calibration conducted by the National Institute of Information and Communications Technology or a designated calibration agency under Article 102-18 paragraph (1)
  - Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
  - 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)
  - Calibration conducted by using other equipment that listed above from a) to c)

**Summary**

Mode	Result	Ch (Hz)	Center (MHz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
802.11b_Nss1_4TX	Pass	2.472G	2.47199364G	-2.575	±50	1	-
802.11g_Nss1_4TX	Pass	2.472G	2.47199352G	-2.621	±50	1	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	2.472G	2.47199338G	-2.678	±50	1	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	2.422G	2.42199358G	-2.649	±50	1	-

### Result

Mode	Result	Ch (Hz)	Center (MHz)	ppm	Limit (ppm)	Port	Remark
802.11b_Nss1_4TX	-	-	-	-	-	-	-
2412MHz	Pass	2.412G	2.41199794G	-0.853	±50	1	-
2442MHz	Pass	2.442G	2.44199419G	-2.38	±50	1	-
2472MHz	Pass	2.472G	2.47199364G	-2.575	±50	1	-
802.11g_Nss1_4TX	-	-	-	-	-	-	-
2412MHz	Pass	2.412G	2.41199754G	-1.019	±50	1	-
2442MHz	Pass	2.442G	2.44199406G	-2.433	±50	1	-
2472MHz	Pass	2.472G	2.47199352G	-2.621	±50	1	-
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-
2412MHz	Pass	2.412G	2.4119972G	-1.16	±50	1	-
2442MHz	Pass	2.442G	2.44199394G	-2.48	±50	1	-
2472MHz	Pass	2.472G	2.47199338G	-2.678	±50	1	-
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-
2422MHz	Pass	2.422G	2.42199358G	-2.649	±50	1	-
2442MHz	Pass	2.442G	2.44199384G	-2.524	±50	1	-
2462MHz	Pass	2.462G	2.46199356G	-2.617	±50	1	-

### Summary

Mode	Max-OBW (MHz)	ITU-Code	Min-OBW (MHz)
2.4-2.4835GHz	-	-	-
802.11b_Nss1_4TX	12.86	12M9G1D	12.18
802.11g_Nss1_4TX	16.62	16M6D1D	16.38
802.11ac VHT20_Nss1,(MCS0)_4TX	17.76	17M8D1D	17.54
802.11ac VHT40_Nss1,(MCS0)_4TX	36.12	36M1D1D	35.48

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

### Result

Mode	Result	Limit (MHz)	P1-OBW (MHz)	P2-OBW (MHz)	P3-OBW (MHz)	P4-OBW (MHz)
802.11b_Nss1_4TX	-	-	-	-	-	-
2412MHz	Pass	26	12.86	12.34	12.42	12.48
2442MHz	Pass	26	12.84	12.18	12.52	12.4
2472MHz	Pass	26	12.82	12.24	12.72	12.38
802.11g_Nss1_4TX	-	-	-	-	-	-
2412MHz	Pass	26	16.48	16.6	16.38	16.5
2442MHz	Pass	26	16.46	16.62	16.38	16.5
2472MHz	Pass	26	16.48	16.6	16.42	16.52
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-
2412MHz	Pass	26	17.66	17.76	17.54	17.7
2442MHz	Pass	26	17.64	17.76	17.56	17.7
2472MHz	Pass	26	17.64	17.76	17.64	17.7
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-
2422MHz	Pass	38	36.08	35.6	36.12	35.84
2442MHz	Pass	38	36	35.48	36.08	35.76
2462MHz	Pass	38	36.08	35.56	36.08	35.84

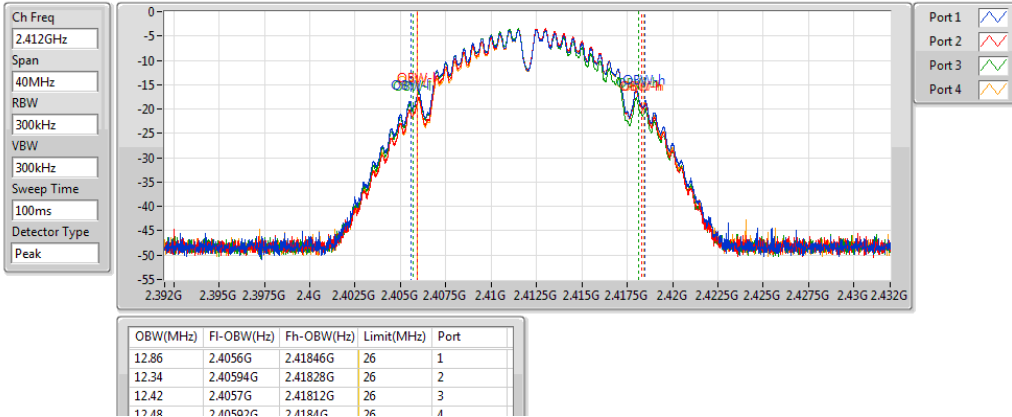
**P1-OBW** = Port 1 99% occupied bandwidth; **P2-OBW** = Port 2 99% occupied bandwidth; **P3-OBW** = Port 3 99% occupied bandwidth;  
**P4-OBW** = Port 4 99% occupied bandwidth;

### 802.11b\_Nss1\_4TX

#### 2412MHz\_TnomVnom

### OBW

10/02/2018

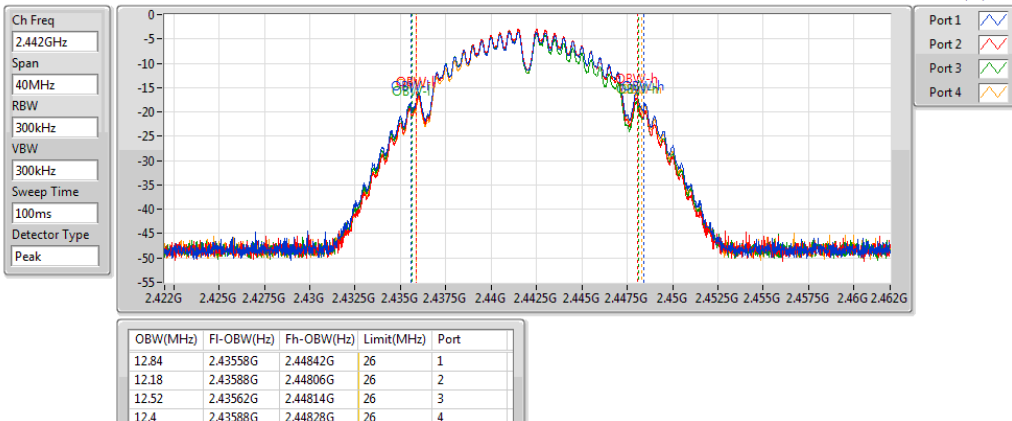


### 802.11b\_Nss1\_4TX

#### 2442MHz\_TnomVnom

### OBW

10/02/2018

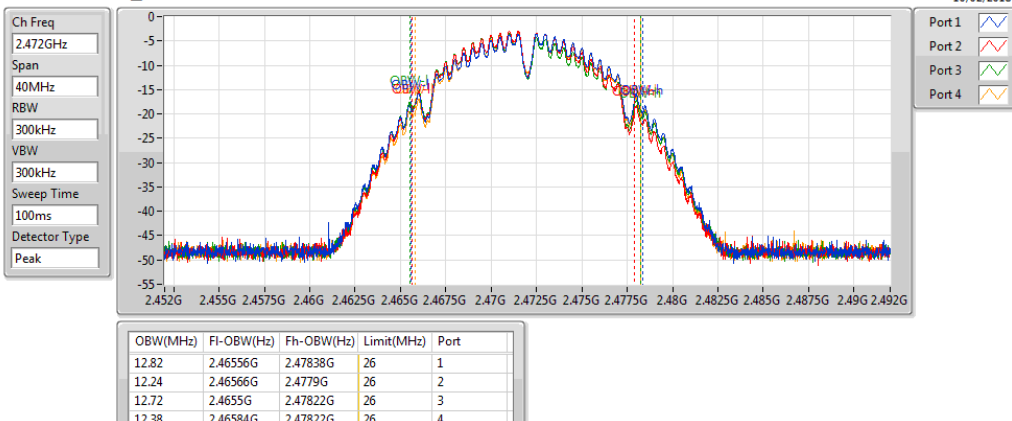


### 802.11b\_Nss1\_4TX

#### 2472MHz\_TnomVnom

### OBW

10/02/2018

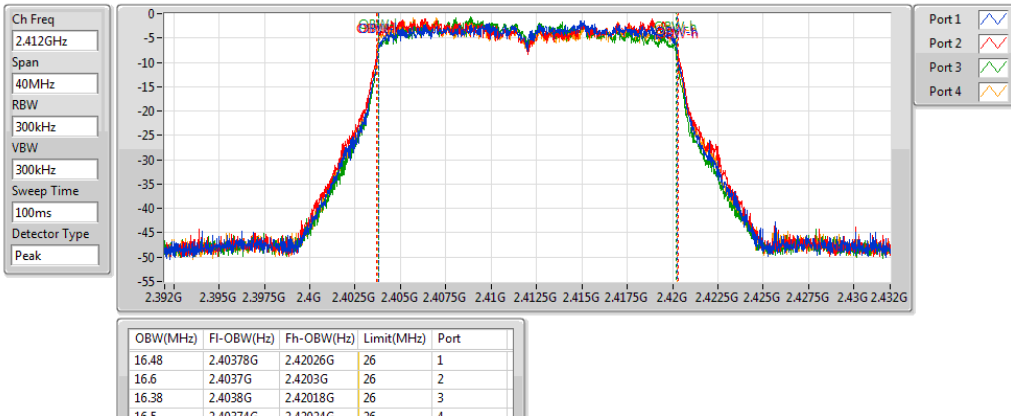


### 802.11g\_Nss1\_4TX

OBW

#### 2412MHz\_TnomVnom

10/02/2018

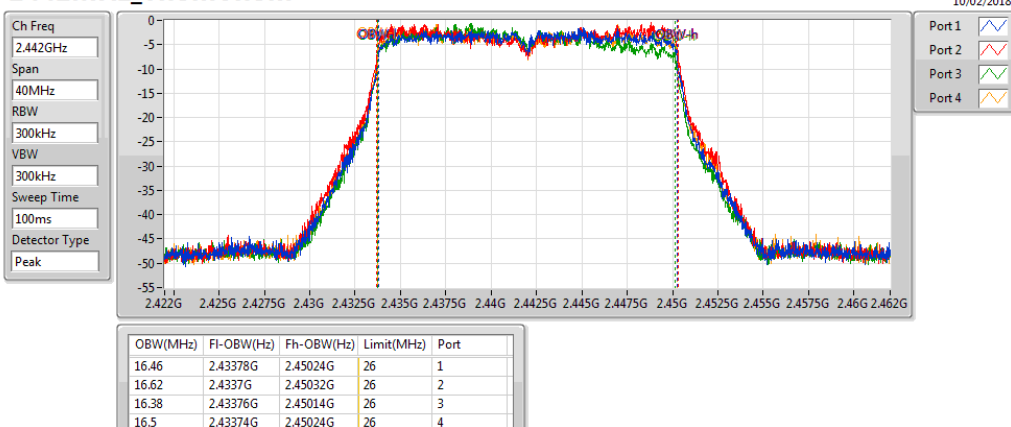


### 802.11g\_Nss1\_4TX

OBW

#### 2442MHz\_TnomVnom

10/02/2018

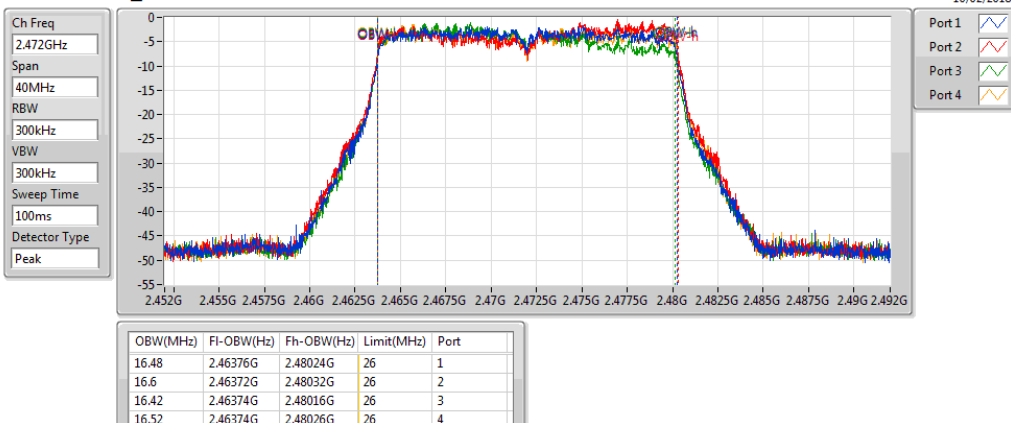


### 802.11g\_Nss1\_4TX

OBW

#### 2472MHz\_TnomVnom

10/02/2018

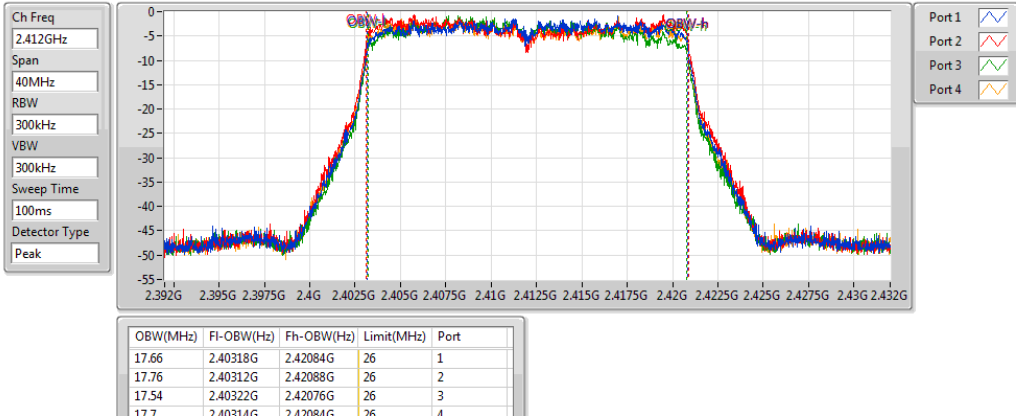




### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

OBW

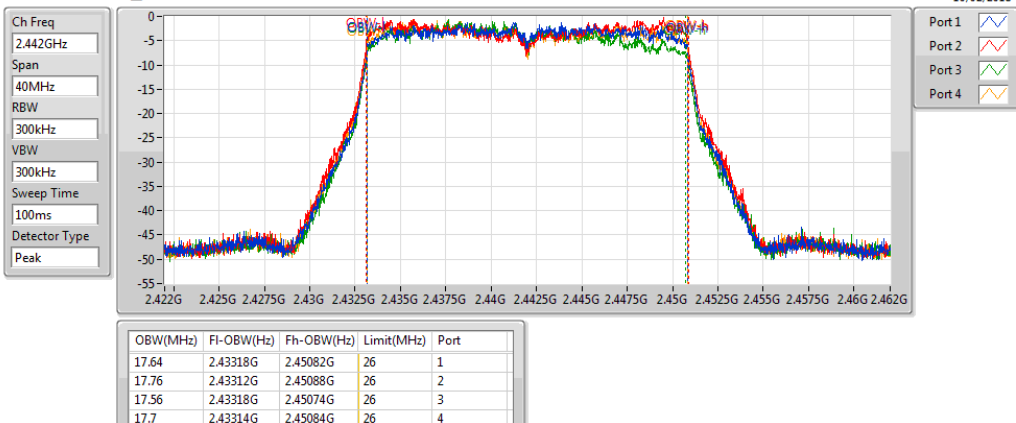
#### 2412MHz\_TnomVnom



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

OBW

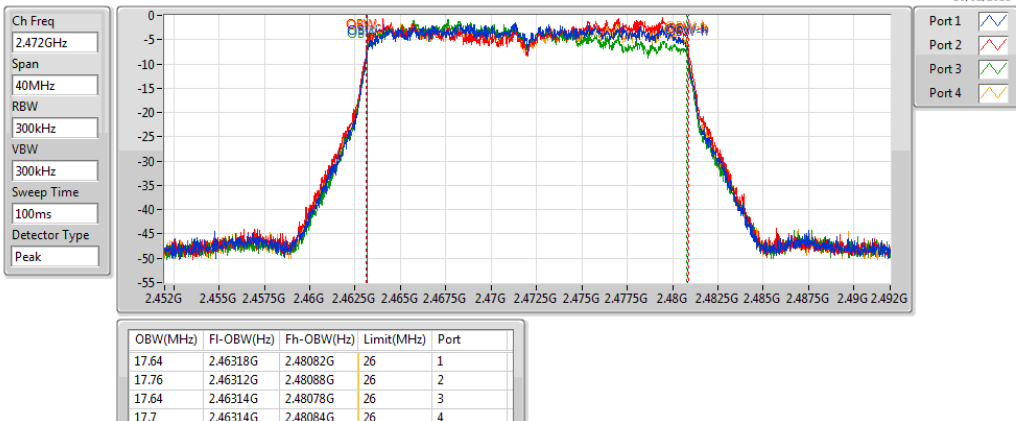
#### 2442MHz\_TnomVnom



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

OBW

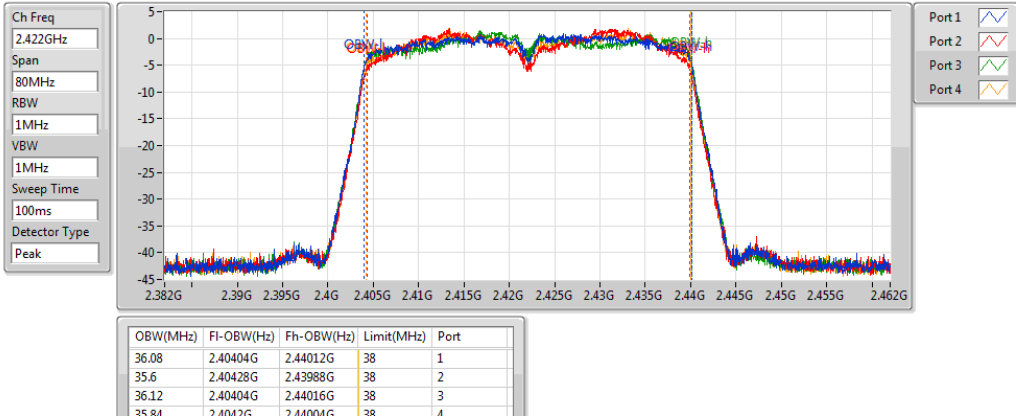
#### 2472MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

OBW

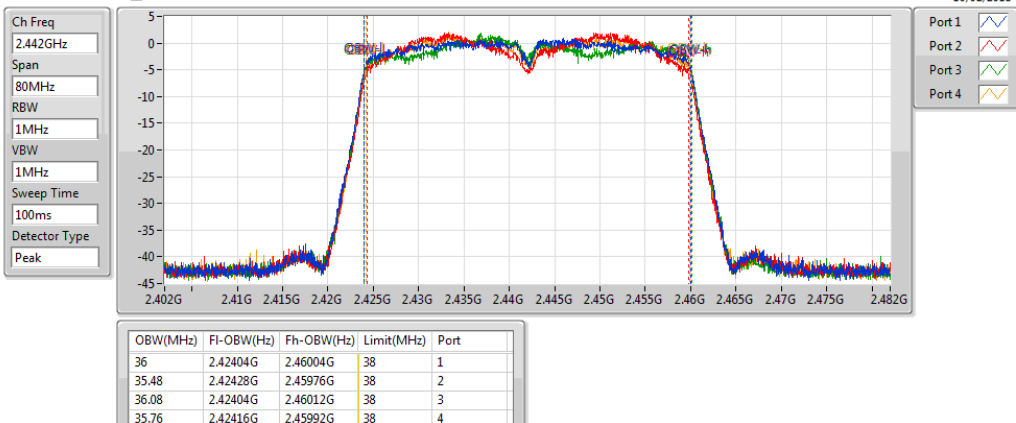
2422MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

OBW

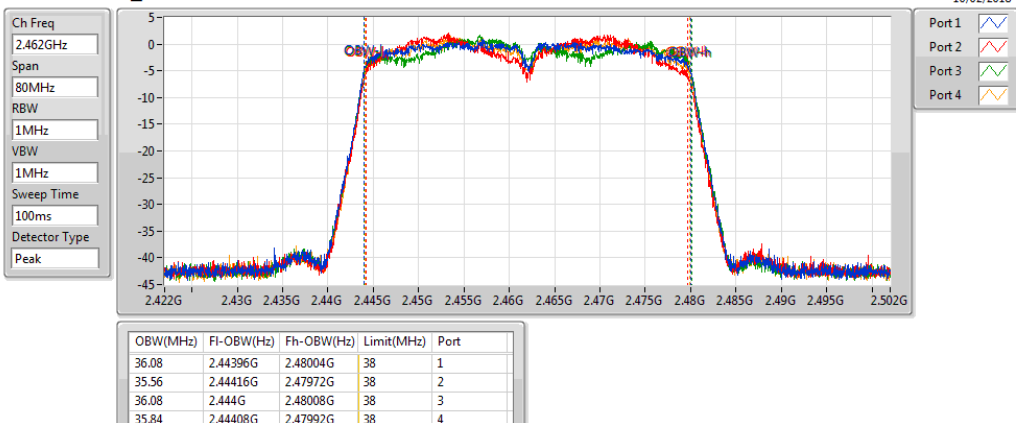
2442MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

OBW

2462MHz\_TnomVnom





## Spread Bandwidth Result

AppendixB.2

### Summary

Mode	Max-SBW (Hz)	Min-SBW (Hz)	Max-SF	Min-SF
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_4TX	8.2	7.78	5.964	5.658

**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 (MHz)	Symbol Rate (Msps)	SF Limit	P1-SBW (MHz)	P1-SF	P2-SBW (MHz)	P2-SF	P3-SBW (MHz)	P3-SF	P4-SBW (MHz)	P4-SF
802.11b_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	0.5	1.375	5	8.2	5.964	7.9	5.745	7.84	5.702	7.92	5.76
2442MHz	Pass	0.5	1.375	5	8.16	5.935	7.88	5.731	7.84	5.702	7.94	5.775
2472MHz	Pass	0.5	1.375	5	8.18	5.949	7.78	5.658	8.12	5.905	7.98	5.804

**P1-SBW** = Port 1 spreading bandwidth; **P2-SBW** = Port 2spreading bandwidth; **P3-SBW** = Port 3spreading bandwidth;

**P4-SBW** = Port 4spreading bandwidth;

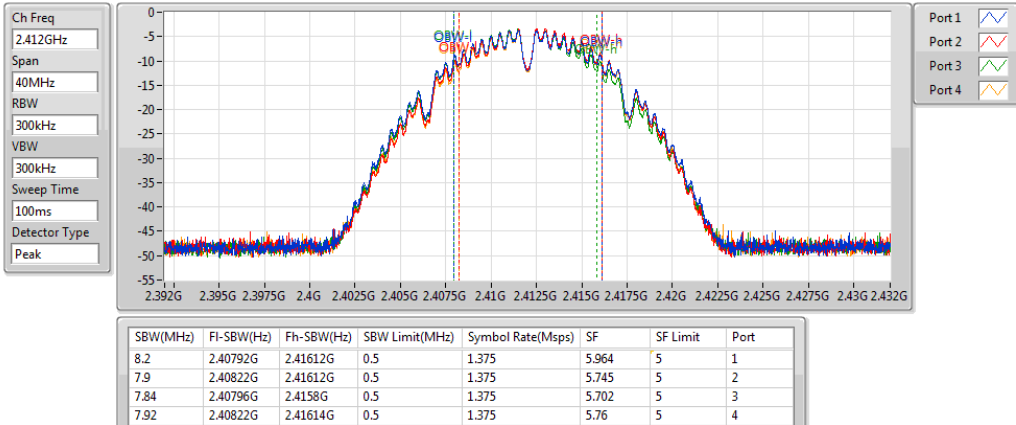
**P1-SF** = Port 1 spreading factor; **P2-SF** = Port 2spreading factor; **P3-SF** = Port 3spreading factor; **P4-SF** = Port 4spreading factor;

## 802.11b\_Nss1\_4TX

## SBW

### 2412MHz\_TnomVnom

10/02/2018

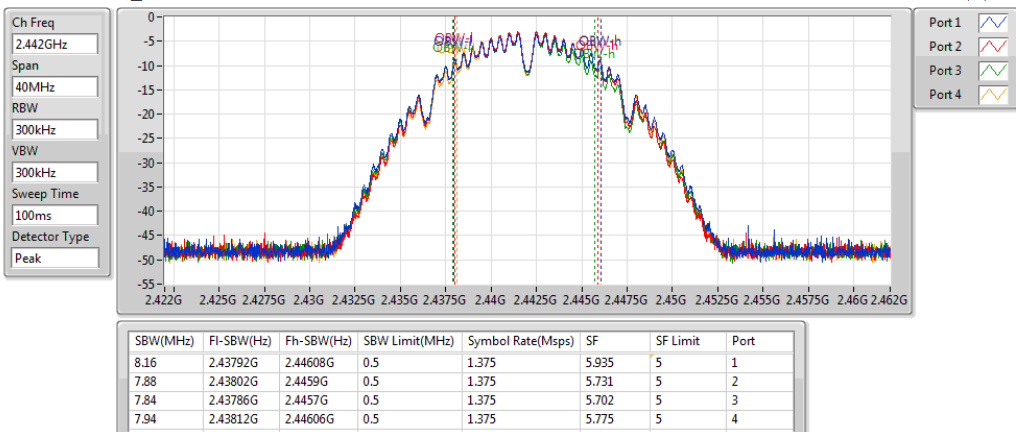


## 802.11b\_Nss1\_4TX

## SBW

### 2442MHz\_TnomVnom

10/02/2018

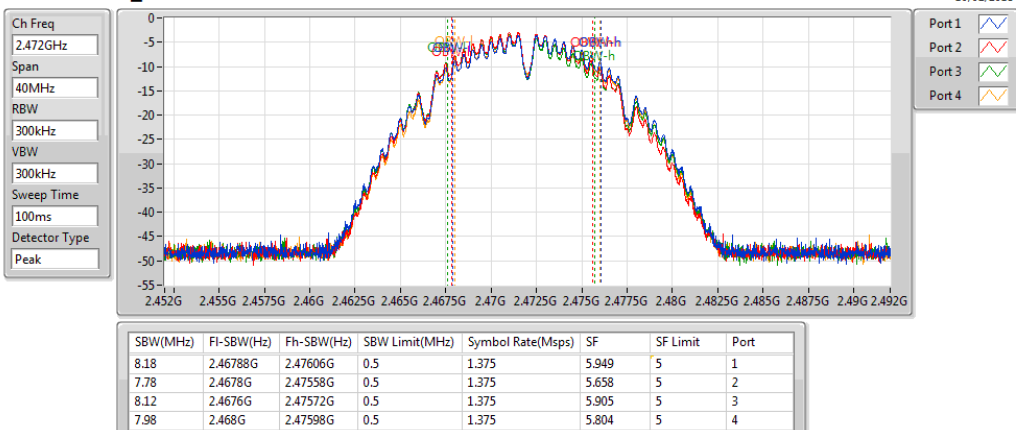


## 802.11b\_Nss1\_4TX

## SBW

### 2472MHz\_TnomVnom

10/02/2018



**Summary**

Mode	Power (dBm/MHz)	Power (mW/MHz)	EIRP (dBm/MHz)	EIRP (mW/MHz)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_4TX	3.17	2.07491	12.07	16.10646
802.11g_Nss1_4TX	3.19	2.08449	12.09	16.18080
802.11ac_VHT20_Nss1,(MCS0)_4TX	3.20	2.08930	12.10	16.21810
802.11ac_VHT40_Nss1,(MCS0)_4TX	0.22	1.05196	9.12	8.16582

**PD** = Antenna Power (Power Density)sum by **P1~PN**;**P1** = Port 1 PD; **P2** = Port 2 PD; **P3** = Port 3 PD; **P4** = Port 4 PD; **ENBF** = Equivalent Noise Bandwidth Factor;**Result**

Mode	Result	Gain (dBi)	Power (dBm/MHz)	Power (mW/MHz)	Power Lim. (mW/MHz)	EIRP (dBm/MHz)	EIRP (mW/MHz)	EIRP Lim. (mW/MHz)	P1 (dBm/MHz)	P2 (dBm/MHz)	P3 (dBm/MHz)	P4 (dBm/MHz)
802.11b_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	8.90	3.07	2.02768	10	11.97	15.73983	16.368	-3.25	-2.72	-2.81	-3.04
2442MHz	Pass	8.90	3.10	2.04174	10	12.00	15.84893	16.368	-3.26	-2.33	-2.94	-3.22
2472MHz	Pass	8.90	3.17	2.07491	10	12.07	16.10646	16.368	-3.23	-2.31	-3.01	-2.91
802.11g_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	8.90	3.18	2.07970	10	12.08	16.14359	16.368	-3.24	-2.52	-2.54	-3.12
2442MHz	Pass	8.90	3.19	2.08449	10	12.09	16.18080	16.368	-3.24	-2.14	-2.73	-3.30
2472MHz	Pass	8.90	2.92	1.95884	10	11.82	15.20548	16.368	-3.47	-2.23	-3.07	-3.79
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	8.90	3.19	2.08449	10	12.09	16.18080	16.368	-3.11	-2.70	-2.42	-3.13
2442MHz	Pass	8.90	3.20	2.08930	10	12.10	16.21810	16.368	-3.23	-2.52	-2.58	-2.99
2472MHz	Pass	8.90	3.14	2.06063	10	12.04	15.99558	16.368	-3.46	-2.14	-2.76	-3.29
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	8.90	0.22	1.05196	5	9.12	8.16582	8.184	-6.28	-5.26	-5.70	-6.04
2442MHz	Pass	8.90	0.21	1.04954	5	9.11	8.14704	8.184	-6.47	-5.47	-5.50	-5.89
2462MHz	Pass	8.90	0.14	1.03276	5	9.04	8.01678	8.184	-6.44	-5.39	-5.64	-6.11

**PD** = Antenna Power (Power Density)sum by **P1~PN**;**P1** = Port 1 PD; **P2** = Port 2 PD; **P3** = Port 3 PD; **P4** = Port 4 PD; **ENBF** = Equivalent Noise Bandwidth Factor;

**Summary**

Mode	Result	Power (dBm/MHz)	Power (mW/MHz)	Declare (dBm/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-	-
802.11b_Nss1_4TX	Pass	3.07	2.02768	3.17	2.07	-2.28	20	-80
802.11g_Nss1_4TX	Pass	2.92	1.95884	3.19	2.08	-6.24	20	-80
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	3.14	2.06063	3.20	2.09	-1.37	20	-80
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	0.14	1.03276	0.22	1.05	-1.83	20	-80

**Result**

Mode	Result	Power (dBm/MHz)	Power (mW/MHz)	Declare (dBm/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
802.11b_Nss1_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.07	2.02768	3.17	2.07	-2.28	20	-80
2442MHz	Pass	3.10	2.04174	3.17	2.07	-1.60	20	-80
2472MHz	Pass	3.17	2.07491	3.17	2.07	0.00	20	-80
802.11g_Nss1_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.18	2.07970	3.19	2.08	-0.46	20	-80
2442MHz	Pass	3.19	2.08449	3.19	2.08	0.00	20	-80
2472MHz	Pass	2.92	1.95884	3.19	2.08	-6.24	20	-80
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.19	2.08449	3.20	2.09	-0.23	20	-80
2442MHz	Pass	3.20	2.08930	3.20	2.09	0.00	20	-80
2472MHz	Pass	3.14	2.06063	3.20	2.09	-1.37	20	-80
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	0.22	1.05196	0.22	1.05	0.00	20	-80
2442MHz	Pass	0.21	1.04954	0.22	1.05	-0.23	20	-80
2462MHz	Pass	0.14	1.03276	0.22	1.05	-1.83	20	-80



**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW/MHz)	Limit (dBm)	Limit (uW/MHz)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (uW/MHz)	P2 (dBm)	P2 (uW/MHz)	P3 (dBm)	P3 (uW/MHz)	P4 (dBm)	P4 (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_4TX	Pass	2.4965G	12.5G	1M	3215.50 2	-42.09	0.06181	-26.02	2.50035	-16.07	2.53	-43.66	0.04305	-48.78	0.01324	-53.69	0.00428	-59.08	0.00124
802.11g_Nss1_4TX	Pass	2.4965G	12.5G	1M	3215.50 2	-42.40	0.05755	-26.02	2.50035	-16.38	2.62	-43.96	0.04018	-49.19	0.01205	-53.97	0.00401	-58.83	0.00131
802.11ac_VHT20_Nss1,(MCS0)_4TX	Pass	2.4835G	2.4965G	1M	2483.52 6	-31.58	0.69502	-16.02	25.0034 5	-15.56	2.56	-38.05	0.15668	-36.35	0.23174	-38.69	0.13521	-37.66	0.1714
802.11ac_VHT40_Nss1,(MCS0)_4TX	Pass	2.4965G	12.5G	1M	3229.25 6	-44.10	0.03889	-26.02	2.50035	-18.08	2.65	-45.72	0.02679	-50.94	0.00805	-55.30	0.00295	-59.63	0.00109



**Result**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW/MHz)	Limit (dBm)	Limit (uW/MHz)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (uW/MHz)	P2 (dBm)	P2 (uW/MHz)	P3 (dBm)	P3 (uW/MHz)	P4 (dBm)	P4 (uW/MHz)
802.11b_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	2.387G	1M	2352.82 3	-53.19	0.00479	-26.02	2.50035	-27.17	2.53	-61.13	0.00077	-56.24	0.00238	-60.12	0.00097	-61.72	0.00067
2412MHz	Pass	2.387G	2.4G	1M	2399.92 2	-52.81	0.00524	-16.02	25.0034 5	-36.79	2.53	-57.68	0.00171	-58.76	0.00133	-59.42	0.00114	-59.74	0.00106
2412MHz	Pass	2.4835G	2.4965G	1M	2495.95 4	-54.08	0.00391	-16.02	25.0034 5	-38.06	2.53	-60.07	0.00098	-58.60	0.00138	-61.24	0.00075	-61.00	0.00079
2412MHz	Pass	2.4965G	12.5G	1M	3215.50 2	-42.09	0.06181	-26.02	2.50035	-16.07	2.53	-43.66	0.04305	-48.78	0.01324	-53.69	0.00428	-59.08	0.00124
2442MHz	Pass	30M	2.387G	1M	2352.82 3	-53.66	0.00431	-26.02	2.50035	-27.64	2.53	-61.21	0.00076	-56.77	0.0021	-60.63	0.00086	-62.36	0.00058
2442MHz	Pass	2.387G	2.4G	1M	2399.81 8	-53.95	0.00403	-16.02	25.0034 5	-37.93	2.53	-58.64	0.00137	-60.08	0.00098	-60.53	0.00089	-61.02	0.00079
2442MHz	Pass	2.4835G	2.4965G	1M	2488.07 6	-53.65	0.00431	-16.02	25.0034 5	-37.63	2.53	-58.62	0.00137	-58.63	0.00137	-60.94	0.00081	-61.18	0.00076
2442MHz	Pass	2.4965G	12.5G	1M	3255.51 6	-45.51	0.0281	-26.02	2.50035	-19.49	2.53	-47.28	0.01871	-52.76	0.0053	-55.19	0.00303	-59.70	0.00107
2472MHz	Pass	30M	2.387G	1M	2233.79 5	-52.95	0.00507	-26.02	2.50035	-26.93	2.53	-60.59	0.00087	-57.19	0.00191	-63.53	0.00044	-57.34	0.00185
2472MHz	Pass	2.387G	2.4G	1M	2399.94 8	-53.89	0.00409	-16.02	25.0034 5	-37.87	2.53	-57.99	0.00159	-60.41	0.00091	-60.57	0.00088	-61.49	0.00071
2472MHz	Pass	2.4835G	2.4965G	1M	2483.55 2	-52.15	0.00609	-16.02	25.0034 5	-36.13	2.53	-57.68	0.00171	-58.19	0.00152	-58.57	0.00139	-58.31	0.00148
2472MHz	Pass	2.4965G	12.5G	1M	3295.53	-49.41	0.01145	-26.02	2.50035	-23.39	2.53	-51.64	0.00685	-56.59	0.00219	-57.99	0.00159	-60.87	0.00082
802.11g_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	2.387G	1M	2240.86 6	-53.06	0.00495	-26.02	2.50035	-27.04	2.62	-59.81	0.00104	-57.45	0.0018	-58.62	0.00137	-61.38	0.00073
2412MHz	Pass	2.387G	2.4G	1M	2399.97 4	-40.17	0.09613	-16.02	25.0034 5	-24.15	2.62	-46.14	0.02432	-44.92	0.03221	-47.49	0.01782	-46.62	0.02178
2412MHz	Pass	2.4835G	2.4965G	1M	2495.92 8	-53.94	0.00403	-16.02	25.0034 5	-37.92	2.62	-60.39	0.00091	-58.33	0.00147	-60.64	0.00086	-61.03	0.00079
2412MHz	Pass	2.4965G	12.5G	1M	3215.50 2	-42.40	0.05755	-26.02	2.50035	-16.38	2.62	-43.96	0.04018	-49.19	0.01205	-53.97	0.00401	-58.83	0.00131
2442MHz	Pass	30M	2.387G	1M	2240.86 6	-53.12	0.00488	-26.02	2.50035	-27.10	2.62	-60.16	0.00096	-57.12	0.00194	-59.00	0.00126	-61.47	0.00071
2442MHz	Pass	2.387G	2.4G	1M	2399.79 2	-53.38	0.00459	-16.02	25.0034 5	-37.36	2.62	-57.99	0.00159	-59.17	0.00121	-60.24	0.00095	-60.71	0.00085
2442MHz	Pass	2.4835G	2.4965G	1M	2487.99 8	-53.60	0.00436	-16.02	25.0034 5	-37.58	2.62	-58.31	0.00148	-59.02	0.00125	-60.96	0.0008	-60.80	0.00083
2442MHz	Pass	2.4965G	12.5G	1M	3255.51 6	-45.65	0.02723	-26.02	2.50035	-19.63	2.62	-47.36	0.01837	-52.60	0.0055	-56.18	0.00241	-60.20	0.00095
2472MHz	Pass	30M	2.387G	1M	2240.86 6	-50.54	0.00882	-26.02	2.50035	-24.52	2.62	-58.02	0.00158	-54.17	0.00383	-58.86	0.0013	-56.74	0.00212
2472MHz	Pass	2.387G	2.4G	1M	2399.89 6	-53.94	0.00404	-16.02	25.0034 5	-37.92	2.62	-58.73	0.00134	-60.42	0.00091	-60.32	0.00093	-60.66	0.00086
2472MHz	Pass	2.4835G	2.4965G	1M	2483.52 6	-35.10	0.30898	-16.02	25.0034 5	-19.08	2.62	-41.36	0.07311	-40.29	0.09354	-41.74	0.06699	-41.23	0.07534
2472MHz	Pass	2.4965G	12.5G	1M	3295.53	-49.18	0.01208	-26.02	2.50035	-23.16	2.62	-51.44	0.00718	-56.45	0.00226	-57.40	0.00182	-60.90	0.00081
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	2.387G	1M	2240.86 6	-53.19	0.0048	-26.02	2.50035	-27.17	2.56	-59.92	0.00102	-57.40	0.00182	-58.97	0.00127	-61.57	0.0007
2412MHz	Pass	2.387G	2.4G	1M	2399.97 4	-37.62	0.1728	-16.02	25.0034 5	-21.60	2.56	-43.65	0.04315	-42.12	0.06138	-45.43	0.02864	-44.02	0.03963
2412MHz	Pass	2.4835G	2.4965G	1M	2495.95 4	-54.11	0.00388	-16.02	25.0034 5	-38.09	2.56	-60.44	0.0009	-58.62	0.00137	-61.13	0.00077	-60.81	0.00083
2412MHz	Pass	2.4965G	12.5G	1M	3215.50 2	-42.59	0.0551	-26.02	2.50035	-16.57	2.56	-44.23	0.03776	-49.15	0.01216	-54.09	0.0039	-58.92	0.00128
2442MHz	Pass	30M	2.387G	1M	2240.86 6	-53.27	0.00471	-26.02	2.50035	-27.25	2.56	-60.10	0.00098	-57.36	0.00184	-59.45	0.00114	-61.19	0.00076
2442MHz	Pass	2.387G	2.4G	1M	2399.84 4	-53.30	0.00468	-16.02	25.0034 5	-37.28	2.56	-57.82	0.00165	-59.26	0.00119	-60.22	0.00095	-60.49	0.00089
2442MHz	Pass	2.4835G	2.4965G	1M	2487.97 2	-53.59	0.00438	-16.02	25.0034 5	-37.57	2.56	-58.21	0.00151	-58.98	0.00126	-60.95	0.0008	-60.98	0.0008
2442MHz	Pass	2.4965G	12.5G	1M	3255.51 6	-45.72	0.02679	-26.02	2.50035	-19.70	2.56	-47.48	0.01786	-52.88	0.00515	-55.77	0.00265	-59.51	0.00112
2472MHz	Pass	30M	2.387G	1M	2240.86 6	-50.91	0.0081	-26.02	2.50035	-24.89	2.56	-58.62	0.00137	-54.39	0.00364	-59.10	0.00123	-57.31	0.00186
2472MHz	Pass	2.387G	2.4G	1M	2399.94 8	-53.74	0.00423	-16.02	25.0034 5	-37.72	2.56	-58.04	0.00157	-60.37	0.00092	-60.46	0.0009	-60.76	0.00084



# CSE-TXUnwanted Emission StrengthResult

Appendix D

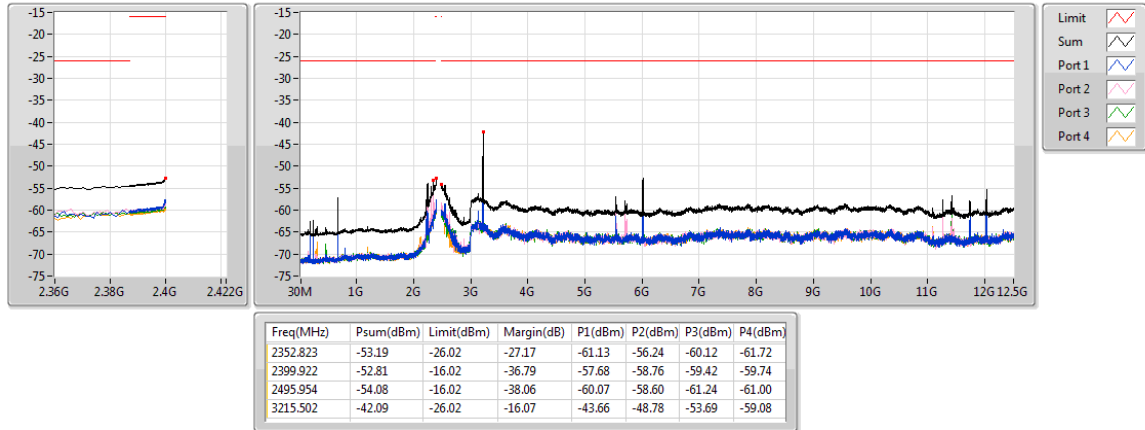
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW/MHz)	Limit (dBm)	Limit (uW/MHz)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (uW/MHz)	P2 (dBm)	P2 (uW/MHz)	P3 (dBm)	P3 (uW/MHz)	P4 (dBm)	P4 (uW/MHz)
2472MHz	Pass	2.4835G	2.4965G	1M	2483.526	-31.58	0.69502	-16.02	25.00345	-15.56	2.56	-38.05	0.15668	-36.35	0.23174	-38.69	0.13521	-37.66	0.1714
2472MHz	Pass	2.4965G	12.5G	1M	3295.53	-49.54	0.01111	-26.02	2.50035	-23.52	2.56	-51.99	0.00632	-56.41	0.00229	-57.94	0.00161	-60.51	0.00089
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	30M	2.387G	1M	2352.823	-52.82	0.00522	-26.02	2.50035	-26.80	2.65	-60.53	0.00089	-56.02	0.0025	-59.81	0.00104	-61.02	0.00079
2422MHz	Pass	2.387G	2.4G	1M	2396.958	-45.29	0.02958	-16.02	25.00345	-29.27	2.65	-51.39	0.00726	-51.47	0.00713	-50.86	0.0082	-51.56	0.00698
2422MHz	Pass	2.4835G	2.4965G	1M	2496.084	-53.66	0.00431	-16.02	25.00345	-37.64	2.65	-59.80	0.00105	-58.19	0.00152	-60.58	0.00087	-60.60	0.00087
2422MHz	Pass	2.4965G	12.5G	1M	3229.256	-44.10	0.03889	-26.02	2.50035	-18.08	2.65	-45.72	0.02679	-50.94	0.00805	-55.30	0.00295	-59.63	0.00109
2442MHz	Pass	30M	2.387G	1M	2240.866	-52.45	0.00569	-26.02	2.50035	-26.43	2.65	-59.12	0.00122	-56.40	0.00229	-58.54	0.0014	-61.09	0.00078
2442MHz	Pass	2.387G	2.4G	1M	2399.792	-53.14	0.00485	-16.02	25.00345	-37.12	2.65	-57.63	0.00173	-59.23	0.00119	-59.97	0.00101	-60.33	0.00093
2442MHz	Pass	2.4835G	2.4965G	1M	2488.18	-53.53	0.00444	-16.02	25.00345	-37.51	2.65	-58.37	0.00146	-59.07	0.00124	-60.65	0.00086	-60.54	0.00088
2442MHz	Pass	2.4965G	12.5G	1M	3255.516	-45.58	0.02769	-26.02	2.50035	-19.56	2.65	-47.38	0.01828	-52.57	0.00553	-55.45	0.00285	-59.90	0.00102
2462MHz	Pass	30M	2.387G	1M	2240.866	-52.50	0.00562	-26.02	2.50035	-26.48	2.65	-59.37	0.00116	-56.24	0.00238	-58.72	0.00134	-61.29	0.00074
2462MHz	Pass	2.387G	2.4G	1M	2399.922	-53.48	0.00448	-16.02	25.00345	-37.46	2.65	-57.93	0.00161	-59.83	0.00104	-60.44	0.0009	-60.32	0.00093
2462MHz	Pass	2.4835G	2.4965G	1M	2483.526	-41.07	0.07813	-16.02	25.00345	-25.05	2.65	-46.71	0.02133	-47.74	0.01683	-46.49	0.02244	-47.56	0.01754
2462MHz	Pass	2.4965G	12.5G	1M	3283.025	-50.34	0.00924	-26.02	2.50035	-24.32	2.65	-52.51	0.00561	-57.44	0.0018	-59.29	0.00118	-61.85	0.00065

## 802.11b\_Nss1\_4TX

CSE-TX

### 2412MHz\_TnomVnom

10/02/2018

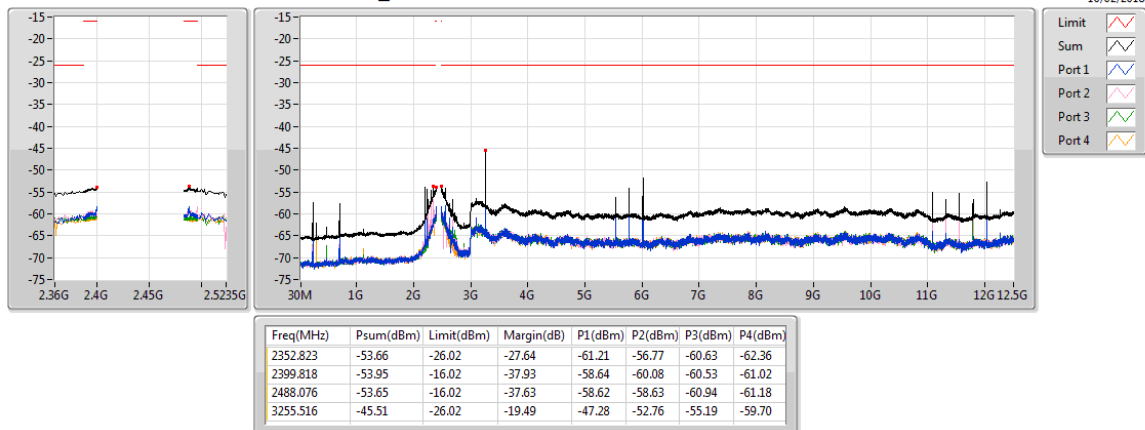


## 802.11b\_Nss1\_4TX

CSE-TX

### 2442MHz\_TnomVnom

10/02/2018

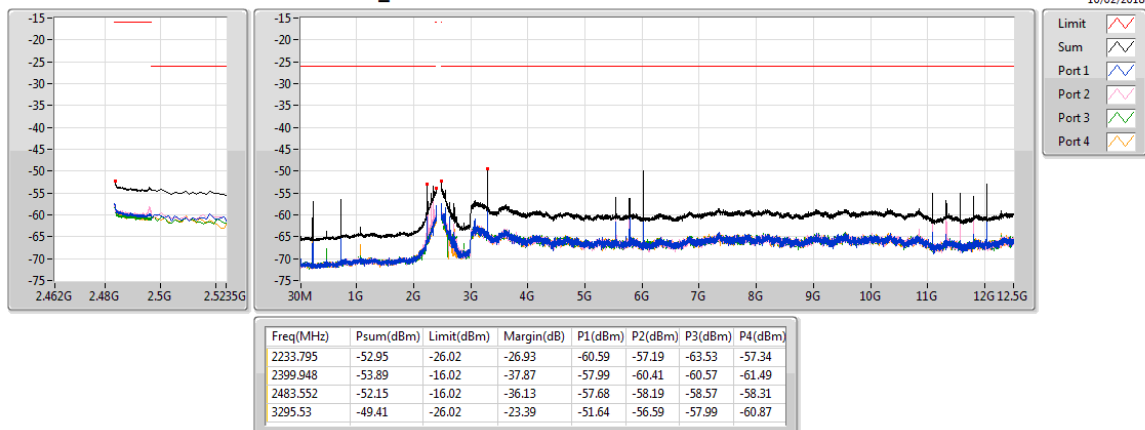


## 802.11b\_Nss1\_4TX

CSE-TX

### 2472MHz\_TnomVnom

10/02/2018

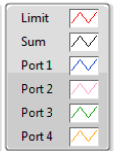
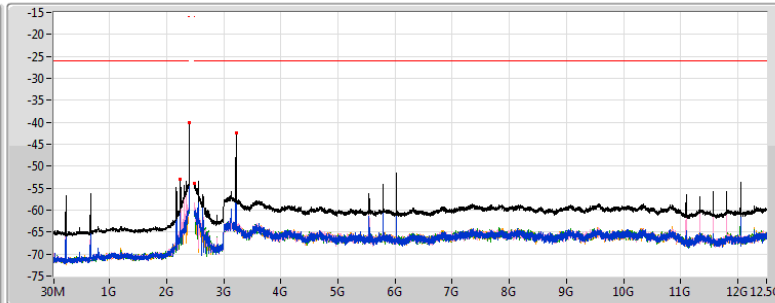
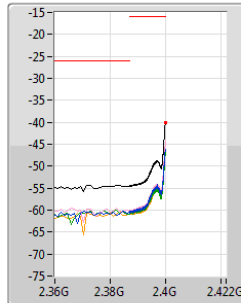


## 802.11g\_Nss1\_4TX

### 2412MHz\_TnomVnom

CSE-TX

10/02/2018



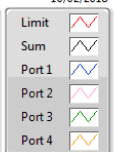
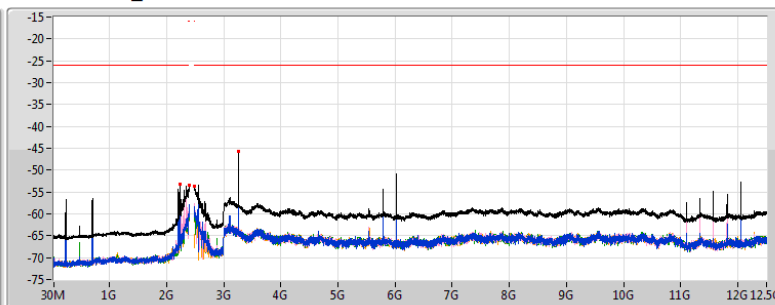
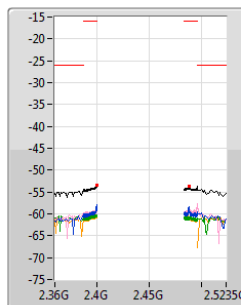
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-53.06	-26.02	-27.04	-59.81	-57.45	-58.62	-61.38
2399.974	-40.17	-16.02	-24.15	-46.14	-44.92	-47.49	-46.62
2495.928	-53.94	-16.02	-37.92	-60.39	-58.33	-60.64	-61.03
3215.502	-42.40	-26.02	-16.38	-43.96	-49.19	-53.97	-58.83

## 802.11g\_Nss1\_4TX

### 2442MHz\_TnomVnom

CSE-TX

10/02/2018



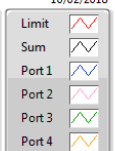
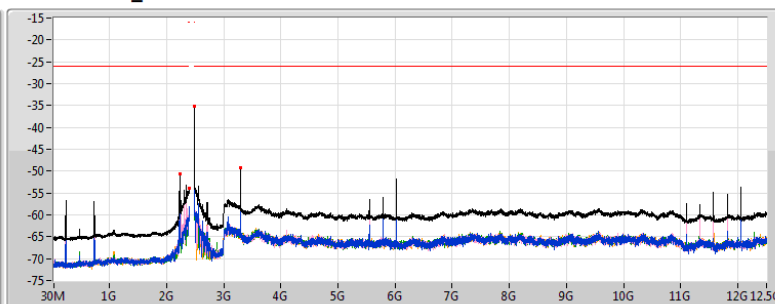
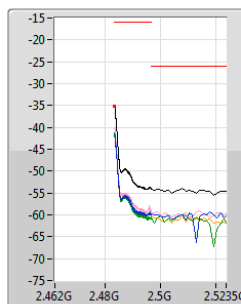
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-53.12	-26.02	-27.10	-60.16	-57.12	-59.00	-61.47
2399.792	-53.38	-16.02	-37.36	-57.99	-59.17	-60.24	-60.71
2487.998	-53.60	-16.02	-37.58	-58.31	-59.02	-60.96	-60.80
3255.516	-45.65	-26.02	-19.63	-47.36	-52.60	-56.18	-60.20

## 802.11g\_Nss1\_4TX

### 2472MHz\_TnomVnom

CSE-TX

10/02/2018



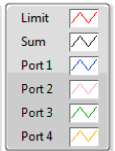
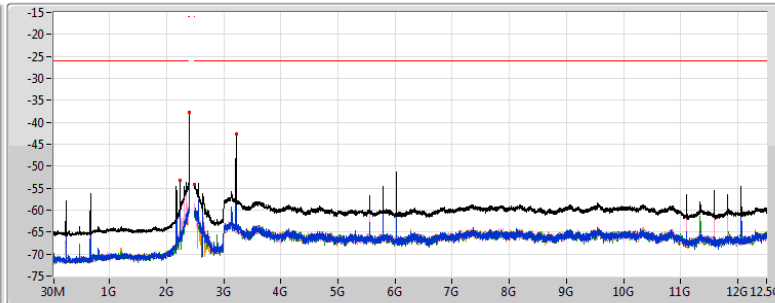
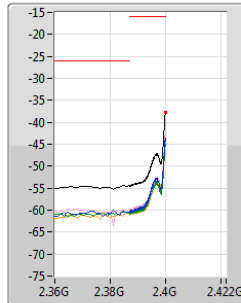
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-50.54	-26.02	-24.52	-58.02	-54.17	-58.86	-56.74
2399.896	-53.94	-16.02	-37.92	-58.73	-60.42	-60.32	-60.66
2483.526	-35.10	-16.02	-19.08	-41.36	-40.29	-41.74	-41.23
3295.53	-49.18	-26.02	-23.16	-51.44	-56.45	-57.40	-60.90

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-TX

### 2412MHz\_TnomVnom

10/02/2018



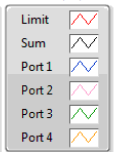
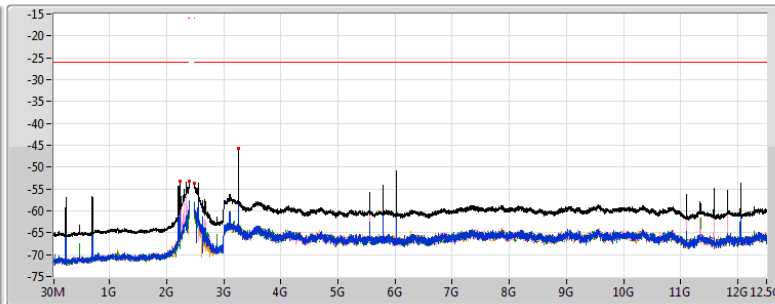
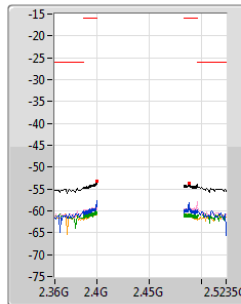
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-53.19	-26.02	-27.17	-59.92	-57.40	-58.97	-61.57
2399.974	-37.62	-16.02	-21.60	-43.65	-42.12	-45.43	-44.02
2495.954	-54.11	-16.02	-38.09	-60.44	-58.62	-61.13	-60.81
3215.502	-42.59	-26.02	-16.57	-44.23	-49.15	-54.09	-58.92

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-TX

### 2442MHz\_TnomVnom

10/02/2018



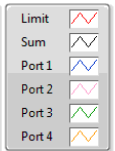
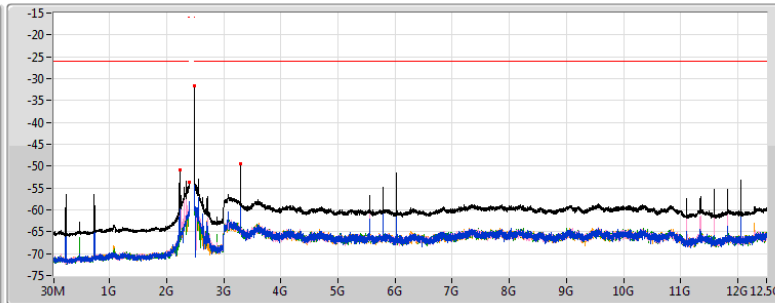
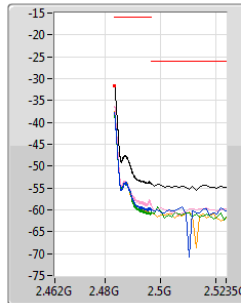
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-53.27	-26.02	-27.25	-60.10	-57.36	-59.45	-61.19
2399.844	-53.30	-16.02	-37.28	-57.82	-59.26	-60.22	-60.49
2487.972	-53.59	-16.02	-37.57	-58.21	-58.98	-60.95	-60.98
3255.516	-45.72	-26.02	-19.70	-47.48	-52.88	-55.77	-59.51

## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-TX

### 2472MHz\_TnomVnom

10/02/2018



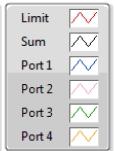
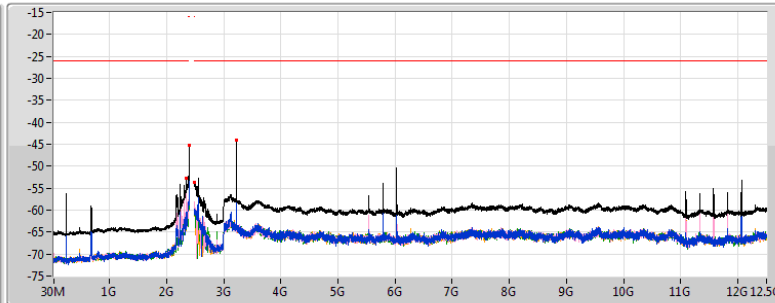
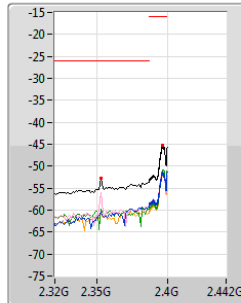
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-50.91	-26.02	-24.89	-58.62	-54.39	-59.10	-57.31
2399.948	-53.74	-16.02	-37.72	-58.04	-60.37	-60.46	-60.76
2483.526	-31.58	-16.02	-15.56	-38.05	-36.35	-38.69	-37.66
3295.53	-49.54	-26.02	-23.52	-51.99	-56.41	-57.94	-60.51

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-TX

### 2422MHz\_TnomVnom

10/02/2018



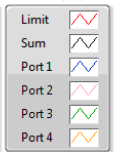
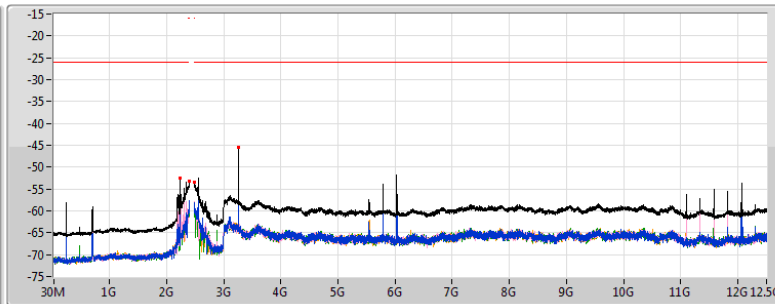
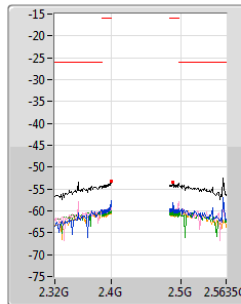
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2352.823	-52.82	-26.02	-26.80	-60.53	-56.02	-59.81	-61.02
2396.958	-45.29	-16.02	-29.27	-51.39	-51.47	-50.86	-51.56
2496.084	-53.66	-16.02	-37.64	-59.80	-58.19	-60.58	-60.60
3229.256	-44.10	-26.02	-18.08	-45.72	-50.94	-55.30	-59.63

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-TX

### 2442MHz\_TnomVnom

10/02/2018



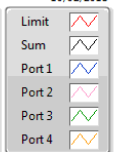
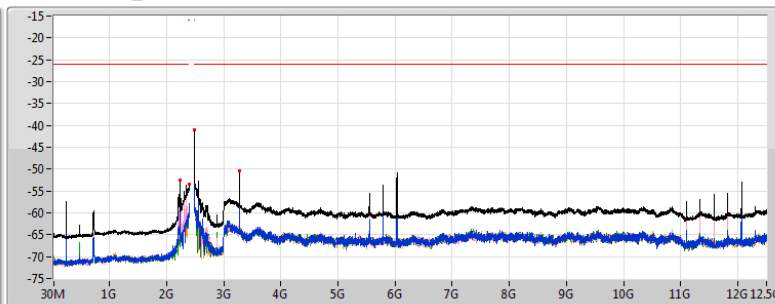
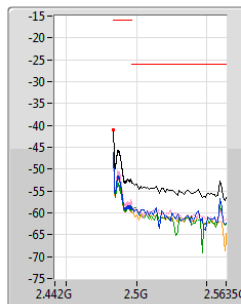
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-52.45	-26.02	-26.43	-59.12	-56.40	-58.54	-61.09
2399.792	-53.14	-16.02	-37.12	-57.63	-59.23	-59.97	-60.33
2488.18	-53.53	-16.02	-37.51	-58.37	-59.07	-60.65	-60.54
3255.516	-45.58	-26.02	-19.56	-47.38	-52.57	-55.45	-59.90

## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-TX

### 2462MHz\_TnomVnom

10/02/2018



Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
2240.866	-52.50	-26.02	-26.48	-59.37	-56.24	-58.72	-61.29
2399.922	-53.48	-16.02	-37.46	-57.93	-59.83	-60.44	-60.32
2483.526	-41.07	-16.02	-25.05	-46.71	-47.74	-46.49	-47.56
3283.025	-50.34	-26.02	-24.32	-52.51	-57.44	-59.29	-61.85

**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW/MHz)	Limit (dBm)	Limit (nW/MHz)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (nW/MHz)	P2 (dBm)	P2 (nW/MHz)	P3 (dBm)	P3 (nW/MHz)	P4 (dBm)	P4 (nW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_4TX	Pass	30M	1G	100k	40.185	-79.76	0.01056	-53.98	3.99945	-25.78	2.50	-84.99	0.00317	-84.82	0.0033	-87.27	0.00187	-86.54	0.00222
802.11g_Nss1_4TX	Pass	30M	1G	100k	79.955	-79.81	0.01046	-53.98	3.99945	-25.83	2.50	-85.74	0.00267	-84.45	0.00359	-86.33	0.00233	-87.27	0.00187
802.11ac_VHT20_Nss1,(MCS0)_4TX	Pass	30M	1G	100k	39.7	-79.26	0.01187	-53.98	3.99945	-25.28	2.50	-84.89	0.00324	-86.04	0.00249	-84.21	0.00379	-86.30	0.00234
802.11ac_VHT40_Nss1,(MCS0)_4TX	Pass	30M	1G	100k	79.955	-79.99	0.01003	-53.98	3.99945	-26.01	2.50	-87.87	0.00163	-84.87	0.00326	-85.14	0.00306	-86.82	0.00208



## CSE-RXSecondary Radiated EmissionsResult

Appendix E

### Result

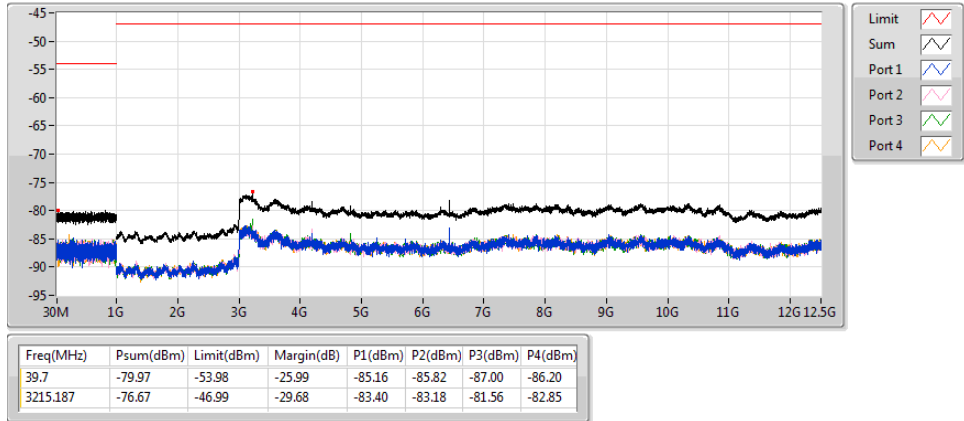
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW/MHz)	Limit (dBm)	Limit (nW/MHz)	Margin (dB)	Loss (dB)	P1 (dBm)	P1 (nW/MHz)	P2 (dBm)	P2 (nW/MHz)	P3 (dBm)	P3 (nW/MHz)	P4 (dBm)	P4 (nW/MHz)
802.11b_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	1G	100k	39.7	-79.97	0.01006	-53.98	3.99945	-25.99	2.50	-85.16	0.00305	-85.82	0.00262	-87.00	0.002	-86.20	0.0024
2412MHz	Pass	1G	12.5G	1M	3215.18 7	-76.67	0.02155	-46.99	19.9986 2	-29.68	2.50	-83.40	0.00457	-83.18	0.00481	-81.56	0.00698	-82.85	0.00519
2442MHz	Pass	30M	1G	100k	776.415	-80.00	0.00999	-53.98	3.99945	-26.02	2.50	-85.42	0.00287	-87.06	0.00197	-85.73	0.00267	-86.05	0.00248
2442MHz	Pass	1G	12.5G	1M	3255.43 7	-76.55	0.02214	-46.99	19.9986 2	-29.56	2.50	-84.69	0.0034	-84.54	0.00352	-80.20	0.00955	-82.46	0.00568
2472MHz	Pass	30M	1G	100k	40.185	-79.76	0.01056	-53.98	3.99945	-25.78	2.50	-84.99	0.00317	-84.82	0.0033	-87.27	0.00187	-86.54	0.00222
2472MHz	Pass	1G	12.5G	1M	3295.68 7	-76.47	0.02254	-46.99	19.9986 2	-29.48	2.50	-84.94	0.00321	-83.92	0.00406	-79.95	0.01012	-82.87	0.00516
802.11g_Nss1_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	1G	100k	552.83	-80.16	0.00964	-53.98	3.99945	-26.18	2.50	-85.54	0.00279	-86.84	0.00207	-86.70	0.00214	-85.78	0.00264
2412MHz	Pass	1G	12.5G	1M	3215.18 7	-76.73	0.02123	-46.99	19.9986 2	-29.74	2.50	-83.45	0.00452	-83.31	0.00467	-81.88	0.00649	-82.55	0.00556
2442MHz	Pass	30M	1G	100k	215.27	-79.88	0.01029	-53.98	3.99945	-25.90	2.50	-86.10	0.00245	-85.59	0.00276	-85.75	0.00266	-86.17	0.00242
2442MHz	Pass	1G	12.5G	1M	3255.43 7	-76.78	0.021	-46.99	19.9986 2	-29.79	2.50	-84.55	0.00351	-84.66	0.00342	-80.41	0.0091	-83.03	0.00498
2472MHz	Pass	30M	1G	100k	79.955	-79.81	0.01046	-53.98	3.99945	-25.83	2.50	-85.74	0.00267	-84.45	0.00359	-86.33	0.00233	-87.27	0.00187
2472MHz	Pass	1G	12.5G	1M	3295.68 7	-76.24	0.02375	-46.99	19.9986 2	-29.25	2.50	-84.30	0.00372	-83.71	0.00426	-79.69	0.01074	-82.98	0.00504
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	30M	1G	100k	178.895	-80.01	0.00997	-53.98	3.99945	-26.03	2.50	-84.91	0.00323	-85.99	0.00252	-86.59	0.00219	-86.92	0.00203
2412MHz	Pass	1G	12.5G	1M	3215.18 7	-76.68	0.02148	-46.99	19.9986 2	-29.69	2.50	-84.28	0.00373	-82.73	0.00533	-81.29	0.00743	-83.02	0.00499
2442MHz	Pass	30M	1G	100k	39.7	-79.26	0.01187	-53.98	3.99945	-25.28	2.50	-84.89	0.00324	-86.04	0.00249	-84.21	0.00379	-86.30	0.00234
2442MHz	Pass	1G	12.5G	1M	3255.43 7	-76.42	0.0228	-46.99	19.9986 2	-29.43	2.50	-84.88	0.00325	-83.57	0.0044	-80.18	0.00959	-82.55	0.00556
2472MHz	Pass	30M	1G	100k	39.7	-79.49	0.01125	-53.98	3.99945	-25.51	2.50	-84.67	0.00341	-84.92	0.00322	-85.39	0.00289	-87.63	0.00173
2472MHz	Pass	1G	12.5G	1M	3295.68 7	-76.08	0.02466	-46.99	19.9986 2	-29.09	2.50	-85.00	0.00316	-84.80	0.00331	-78.80	0.01318	-83.01	0.005
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	30M	1G	100k	79.955	-79.99	0.01003	-53.98	3.99945	-26.01	2.50	-87.87	0.00163	-84.87	0.00326	-85.14	0.00306	-86.82	0.00208
2422MHz	Pass	1G	12.5G	1M	3229.56 2	-76.42	0.0228	-46.99	19.9986 2	-29.43	2.50	-84.19	0.00381	-82.70	0.00537	-80.50	0.00891	-83.27	0.00471
2442MHz	Pass	30M	1G	100k	39.7	-80.05	0.00989	-53.98	3.99945	-26.07	2.50	-86.21	0.00239	-85.99	0.00252	-86.23	0.00238	-85.86	0.00259
2442MHz	Pass	1G	12.5G	1M	3255.43 7	-76.40	0.02292	-46.99	19.9986 2	-29.41	2.50	-84.95	0.0032	-84.33	0.00369	-79.52	0.01117	-83.13	0.00486
2462MHz	Pass	30M	1G	100k	313.725	-80.02	0.00996	-53.98	3.99945	-26.04	2.50	-85.95	0.00254	-86.28	0.00236	-86.50	0.00224	-85.49	0.00282
2462MHz	Pass	1G	12.5G	1M	3282.75	-76.40	0.02291	-46.99	19.9986 2	-29.41	2.50	-83.94	0.00404	-83.72	0.00425	-80.11	0.00975	-83.12	0.00488



## 802.11b\_Nss1\_4TX

CSE-RX

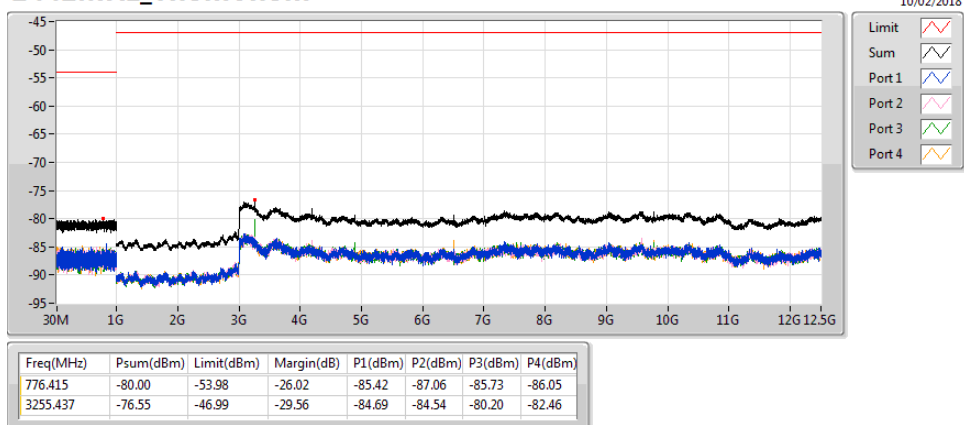
### 2412MHz\_TnomVnom



## 802.11b\_Nss1\_4TX

CSE-RX

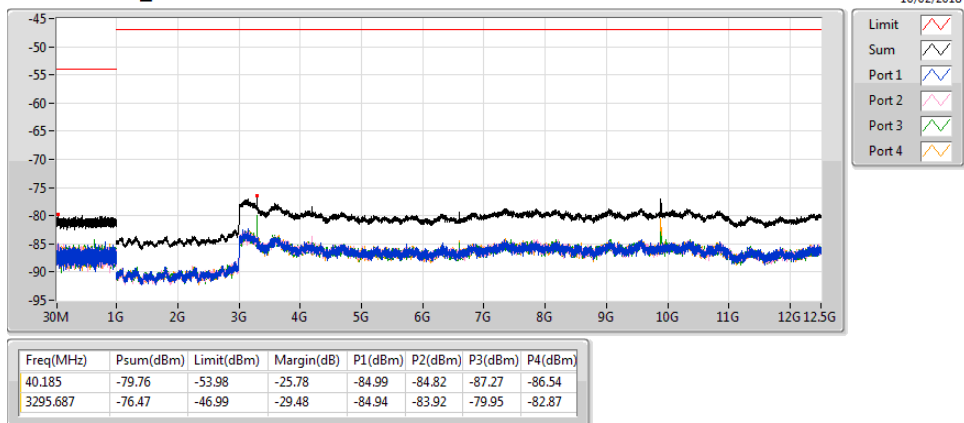
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## 802.11b\_Nss1\_4TX

CSE-RX

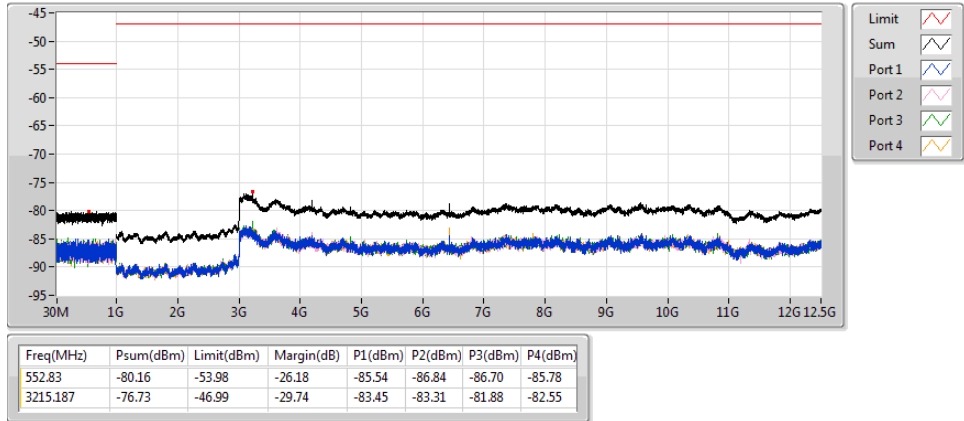
### 2472MHz\_TnomVnom



802.11g\_Nss1\_4TX

CSE-RX

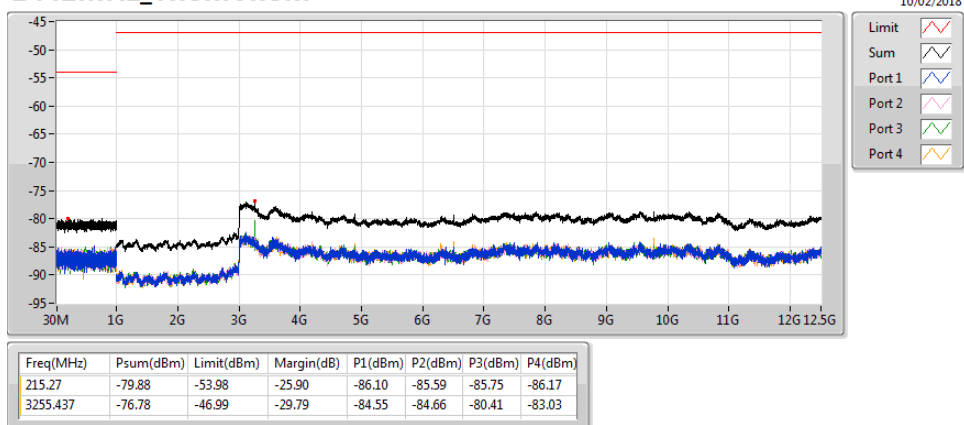
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802.11g\_Nss1\_4TX

CSE-RX

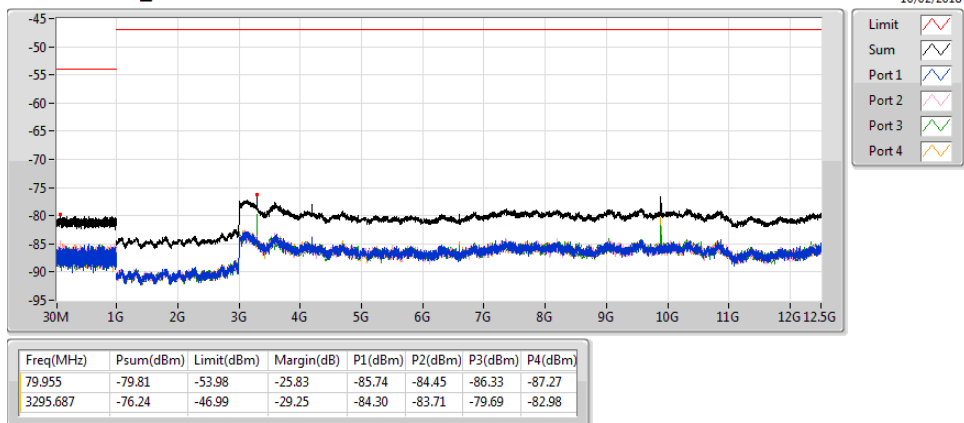
2442MHz\_TnomVnom



802.11g\_Nss1\_4TX

CSE-RX

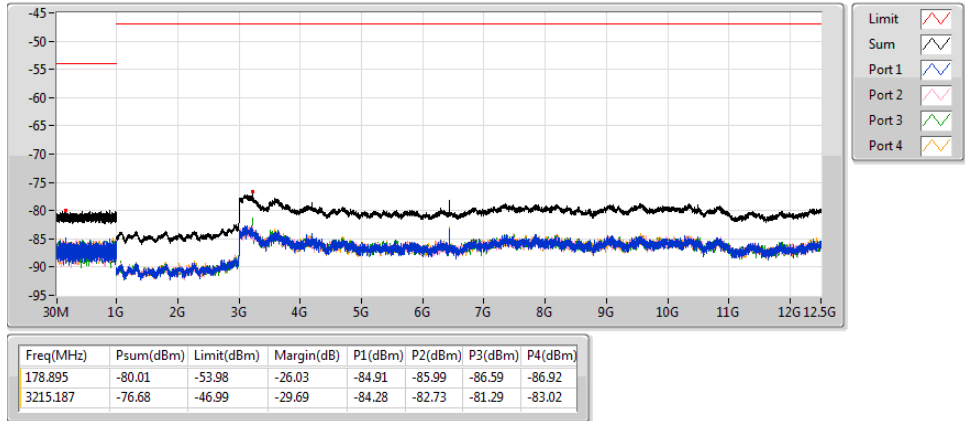
2472MHz\_TnomVnom



## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-RX

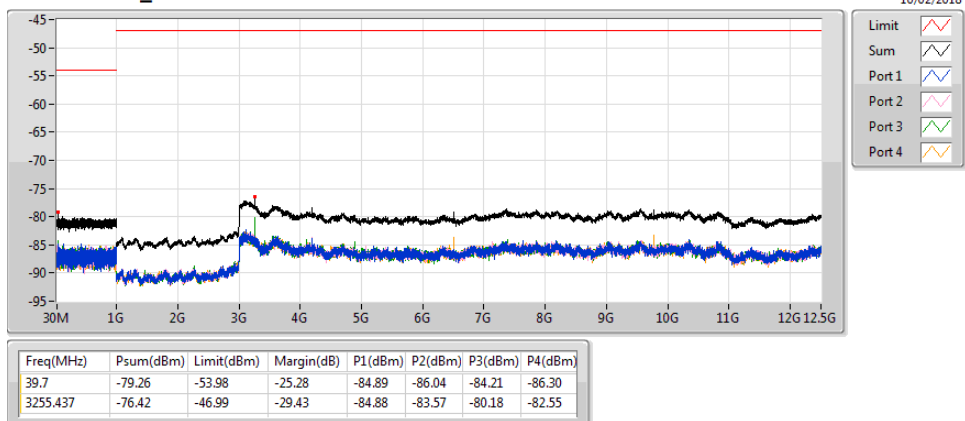
### 2412MHz\_TnomVnom



## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-RX

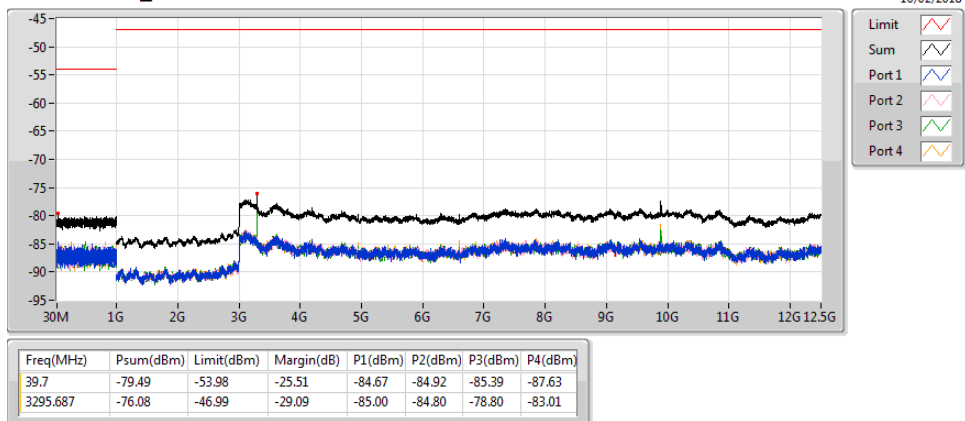
### 2442MHz\_TnomVnom



## 802.11ac VHT20\_Nss1,(MCS0)\_4TX

CSE-RX

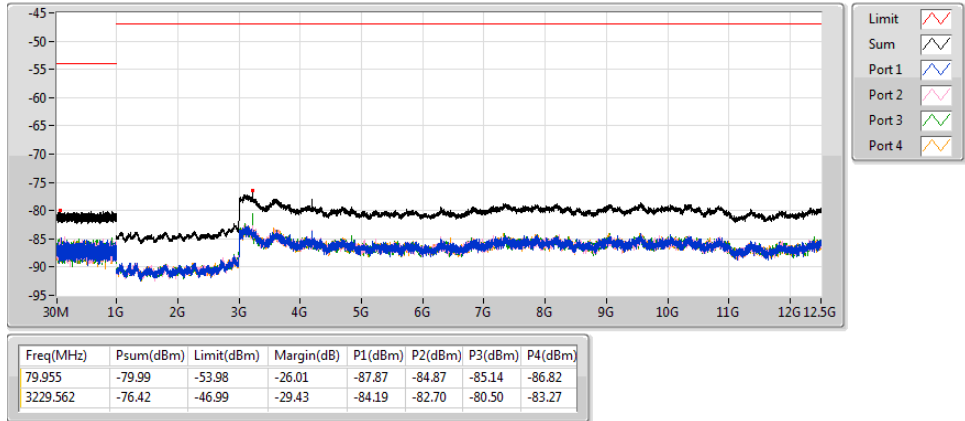
### 2472MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-RX

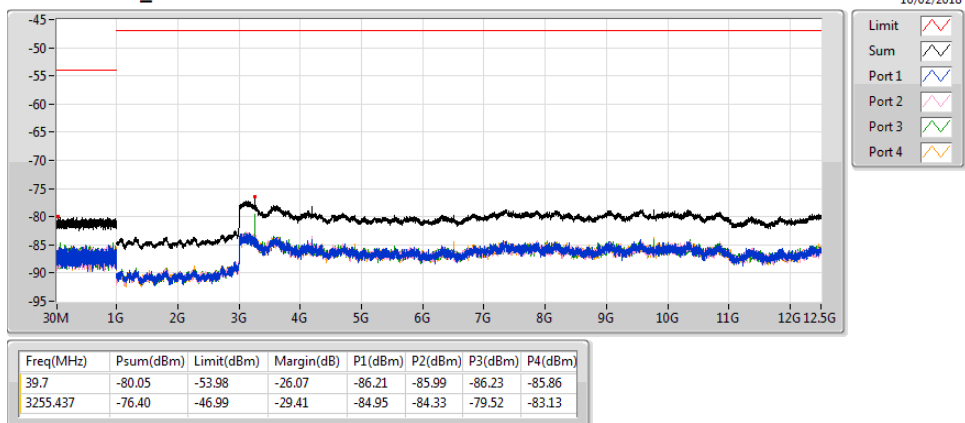
### 2422MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-RX

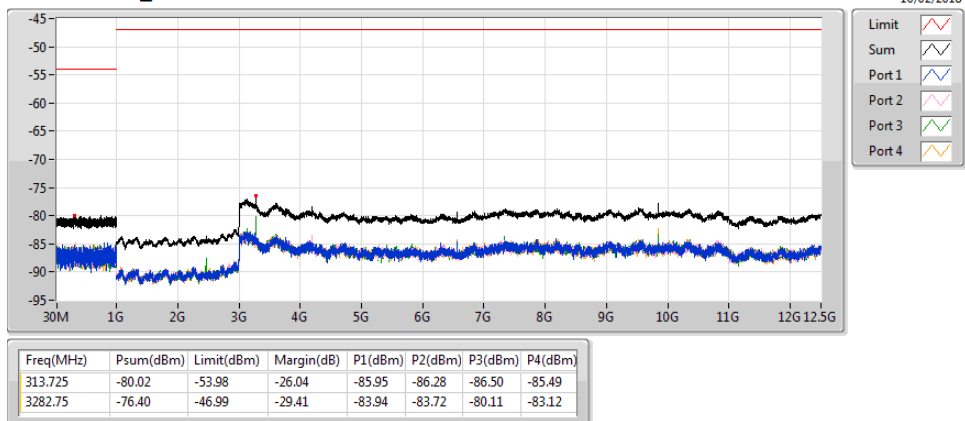
### 2442MHz\_TnomVnom



## 802.11ac VHT40\_Nss1,(MCS0)\_4TX

CSE-RX

### 2462MHz\_TnomVnom



### Summary

Mode	Result	MAC	ID Length	ID Limit	Function
2.4-2.4835GHz	-		-	-	-
802.11b_Nss1_4TX	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11g_Nss1_4TX	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	00-11-22-33-44-54	48 bits	48 bits	Good

### Result

Mode	Result	MAC	ID Length	ID Limit	Function
802.11b_Nss1_4TX	-		-	-	-
2412MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2442MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2472MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11g_Nss1_4TX	-		-	-	-
2412MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2442MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2472MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11ac VHT20_Nss1,(MCS0)_4TX	-		-	-	-
2412MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2442MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2472MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
802.11ac VHT40_Nss1,(MCS0)_4TX	-		-	-	-
2422MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2442MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good
2462MHz	Pass	00-11-22-33-44-54	48 bits	48 bits	Good



### Summary

Mode	Result	Interference Pin (dBm)	Function
2.4-2.4835GHz	-	-	-
802.11b_Nss1_4TX	Pass	OBW<26MHz	w/o test
802.11g_Nss1_4TX	Pass	OBW<26MHz	w/o test
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	OBW<26MHz	w/o test
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	Defined	Good

### Result

Mode	Result	Interference Pin (dBm)	Function
802.11b_Nss1_4TX	-	-	-
2412MHz	Pass	OBW<26MHz	w/o test
2442MHz	Pass	OBW<26MHz	w/o test
2472MHz	Pass	OBW<26MHz	w/o test
802.11g_Nss1_4TX	-	-	-
2412MHz	Pass	OBW<26MHz	w/o test
2442MHz	Pass	OBW<26MHz	w/o test
2472MHz	Pass	OBW<26MHz	w/o test
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-
2412MHz	Pass	OBW<26MHz	w/o test
2442MHz	Pass	OBW<26MHz	w/o test
2472MHz	Pass	OBW<26MHz	w/o test
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-
2422MHz	Pass	Undefined	Good
2442MHz	Pass	Undefined	Good
2462MHz	Pass	Undefined	Good



## 1. Photographs of Test Configuration

