

Page: 1 of 1318

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





**Applicant:** LG Electronics USA, Inc.

111 Sylvan Avenue, North Building, Englewood Cliffs, New

Jersey 07632, United States

**Product Name:** Notebook Computer

LG or **LG Brand Name:** 

Model No.: 16T90TP

16T90TP\*\*,16TD90TP\*\*,16TG90TP\*\*,16TB90TP\*\*,16TS90TP\*\* Series Model:

Remark "\*" can be 0 to 9 or A to Z or dash or blank

For marketing purposes only Model Difference:

**Report Number:** TERF2409002608ER

**FCC ID** BEJNT-16T90TP

Date of EUT Received: September 3, 2024

**Date of Test:** September 4, 2024~November 15, 2024

**Issue Date:** November 15, 2024

Approved By CHUN; CHIEH, CHIEN

Chun Chieh Chen

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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f (886-2) 2298-0488

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Page: 2 of 1318

Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
TERF2409002608ER	00	Original	October 22, 2024	Karen Huang			
TERF2409002608ER	01	Add measurement data of 802.11 ax mode	November 14, 2024	Karen Huang	*		
TERF2409002608ER	.09002608ER 02 Update meansurement data of 802.11 be mode November 15,		November 15, 2024	Karen Huang	*		

#### Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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Page: 3 of 1318

# **Contents**

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	11
3	SUMMARY OF TEST RESULT	15
4	DESCRIPTION OF TEST MODES	16
5	MEASUREMENT UNCERTAINTY	24
6	MEASUREMENT EQUIPMENT USED	25
7	CONDUCTED EMISSION TEST	27
8	EMISSION BANDWIDTH MEASUREMENT	31
9	MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	250
10	MAXIMUM POWER SPECTRAL DENSITY	263
11	UNDESIRABLE RADIATED EMISSION MEASUREMENT	372
12	TRANSMISSION IN THE ABSENCE OF DATA	1317
13	ANTENNA REQUIREMENT	1318

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Page: 4 of 1318

# **GENERAL INFORMATION**

#### 1.1 **Product Description**

Product Name:	Notebook Computer
Brand Name:	LG or <b>LG</b>
Model No.:	16T90TP
Series Model:	16T90TP**,16TD90TP**,16TG90TP**,16TB90TP**,16TS90TP** Remark "*" can be 0 to 9 or A to Z or dash or blank
Model Difference:	For marketing purposes only
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	408PGRS937454, 408PGVC937455, 408PGWR937497
Power Supply:	15.52 Vdc from rechargeable battery or 5 / 9 / 15 / 20 Vdc from adapter
Test Software (Name/Version)	DRTU.06643.23.60.0

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Page: 5 of 1318

## **Modulation & Data Rate**

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in					
Transition Rate:	802.11 a: 6 - 54 Mbps					
	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n					
	256QAM, 64QAM, 16QAM, QPSK, BPSK					
	for OFDM in 802.11ac					
Modulation type:	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK					
	for OFDMA in 802.11ax					
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM,					
	QPSK, BPSK for OFDMA in 802.11be					
	802.11 n_HT20: up to 144.4 Mbps					
	802.11 n_HT40: up to 300 Mbps					
	802.11 ac_VHT20: up to 173.4 Mbps					
	802.11 ac_VHT40: up to 400 Mbps					
	802.11 ac_VHT80: up to 866.6 Mbps					
	802.11 ac_VHT160: up to 1733.4 Mbps					
Transition Rate:	802.11 ax_HE20: up to 286.8 Mbps					
mansilion Nate.	802.11 ax_HE40: up to 573.6 Mbps					
	802.11 ax_HE80: up to 1201 Mbps					
	802.11 ax_HE160: up to 2402 Mbps					
	802.11 be_EHT20: up to 344.1 Mbps					
	802.11 be_EHT40: up to 688.2 Mbps					
	802.11 be_EHT80: up to 1441.2 Mbps					
	802.11 be_EHT160: up to 2882.4 Mbps					

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Page: 6 of 1318

# **Antenna Designation**

Antenna Type	Supplier	NB Mode / TB Mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
					5150~5250	
				AYF6Y-200008	5250~5350	
			Main	(1415-0ADV000)	5470~5725	
				(	5725~5850	
		NB Mode			5850~5895	
		IND Mode		AYF6Y-200008 (1415-0ADV000)	5150~5250	1.40
			Aux		5250~5350	1.96
					5470~5725	2.79
					5725~5850	2.79
PIFA	AWAN				5850~5895	2.32
FIIA	AVVAIN		Main	AYF6Y-200008 (1415-0ADV000)	5150~5250	1.99
					5250~5350	2.51
					5470~5725	3.04
				(1413-0AD V000)	5725~5850	3.04
		TD Mada			5850~5895	2.38
		TB Mode			5150~5250	0.13
				AV/E0V/ 000000	5250~5350	-0.13
			Aux	AYF6Y-200008	5470~5725	1.32
				(1415-0ADV000)	5725~5850	1.32
					5850~5895	0.43

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Page: 7 of 1318

	-				5150~5250	2.13
				4.44E 0.4 DT000	5250~5350	1.83
			Main	1415-0ADT000 (WA-F-LELE-04-003)	5470~5725	1.99
				(VVA-1 -LLLL-04-003)	5725~5850	2.12
		ND Mada			5850~5895	2.28
		NB Mode			5150~5250	1.33
DIEA INDAG				4.44E 0.4 DT000	5250~5350	1.93
			Aux	1415-0ADT000 (WA-F-LELE-04-003)	5470~5725	2.54
				(VVA-F-LELE-04-003)	5725~5850	2.49
	INIDAO				5850~5895	2.24
PIFA	INPAQ	INPAQ	Main	1415-0ADT000 (WA-F-LELE-04-003)	5150~5250	1.85
					5250~5350	2.39
					5470~5725	2.86
				(****-1 -LLLL-04-003)	5725~5850	2.65
					5850~5895	2.29
		TB Mode			5150~5250	0.11
				4.44E.0ADT000	5250~5350	-0.19
			Aux	1415-0ADT000 (WA-F-LELE-04-003)	5470~5725	1.25
				(***-1 -LLLE-04-003)	5725~5850	1.27
					5850~5895	0.39

## Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.
- 3. Chain A = Aux antenna, Chain B = Main antenna.

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Page: 8 of 1318

Mode: Chain A

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
	5180~5240	4	10.86 dBm	OFDM
	5260~5320	4	10.93 dBm	OFDM
802.11a	5500~5720	12	10.50 dBm	OFDM
	5745-5825	5	11.01 dBm	OFDM
	5845~5885	3	13.06 dBm	OFDM

Mode: Chain B

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
	5180~5240	4	10.96 dBm	OFDM
	5260~5320	4	11.03 dBm	OFDM
802.11a	5500~5720	12	10.64 dBm	OFDM
	5745-5825	5	11.03 dBm	OFDM
	5845~5885	3	13.17 dBm	OFDM

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Page: 9 of 1318

Mode: Chain A + Chain B

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
	5180~5240	4	13.32 dBm	OFDMA
802.11n_HT20/	5260~5320	4	13.36 dBm	OFDMA
802.11ac_VHT20/ 802.11ax_HE20/	5500~5720	12	12.96 dBm	OFDMA
802.11be_EHT20	5745-5825	5	13.47 dBm	OFDMA
	5845~5885	3	15.54 dBm	OFDMA
	5190~5230	2	13.24 dBm	OFDMA
802.11n_HT40	5270~5310	2	13.34 dBm	OFDMA
802.11ac_VHT40/ 802.11ax HE40/	5510~5710	6	12.92 dBm	OFDMA
802.11be_EHT40	5755-5795	2	13.49 dBm	OFDMA
	5835~5875	2	15.58 dBm	OFDMA
	5210	1	13.31 dBm	OFDMA
802.11ac_VHT80/	5290	1	13.37 dBm	OFDMA
802.11ax_HE80/	5530~5690	3	12.96 dBm	OFDMA
802.11be_EHT80	5775	1	13.44 dBm	OFDMA
	5855	1	13.16 dBm	OFDMA
000 44	5250	1	13.37 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160/ 802.11be_EHT160	5570	1	13.08 dBm	OFDMA
002.11DG_L111100	5815	1	12.09 dBm	OFDMA

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Page: 10 of 1318

# 1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 291074 D02 EMC Measurement v01

ANSI C63.10:2013

## 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 2		
		SAC 3		
	No 124 Wu Kung Dood New Toingi	Conduction 1		TW3702
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027	
	Taipei City, Taiwan.	Conducted 2	1 440027	
	raiper Oity, Taiwan.	Conducted 3	- - -	
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydaii Oity, Taiwaii 333	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

## 1.7 Special Accessories

There are no special accessories used while test was conducted.

# 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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Page: 11 of 1318

# SYSTEM TEST CONFIGURATION

#### 2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### **EUT Exercise** 2.2

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

#### 2.3 **Test Procedure**

#### 2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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Page: 12 of 1318

## **Measurement Results Explanation Example**

#### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

#### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output

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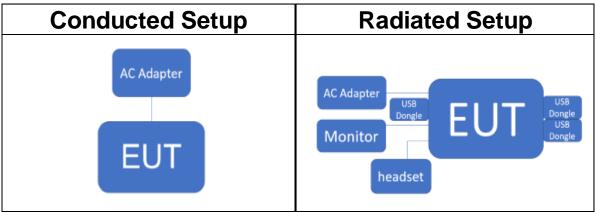
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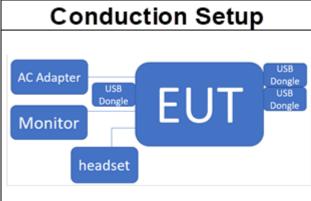


Report No.: TERF2409002608ER Page: 13 of 1318

SGS

# 2.5 Test Configuration





# 2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A	
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A	
Monitor	Dell	U2413f	CN-06VNX5-72872- 34D-A6YL	N/A	N/A	
Headset	Apple	A1472	N/A	N/A	N/A	
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A	
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A	
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A	
HDMI Cable	Hotron	E246588	N/A	N/A	N/A	
	C	onducted Emission	Test Site: Conducted	1		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A	
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A	

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Page: 14 of 1318

Radiated Emission Test Site: SAC 3							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
AC Adapter	LG	LP65WFC20P-NJ	N/A	N/A	N/A		
Type C to Type C cable	Luxshare	L1LUC022-CS-H	N/A	N/A	N/A		
Monitor	Dell	U2413f	CN-06VNX5-72872- 34D-A6YL	N/A	N/A		
Headset	Apple	A1472	N/A	N/A	N/A		
USB Dongle	SanDisk	SDCZ600-032G	N/A	N/A	N/A		
USB Dongle	SanDisk	SDDDC4	N/A	N/A	N/A		
USB Dongle	TEAMGROUP	C175	N/A	N/A	N/A		
HDMI Cable	Hotron	E246588	N/A	N/A	N/A		

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Page: 15 of 1318

# SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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Page: 16 of 1318

# **DESCRIPTION OF TEST MODES**

# **Operating Frequencies**

## UNII-1 5150 MHz ~ 5250MHz

20MHz		
СН	Freq.	
	(MHz)	
36	5180	
40	5200	
44	5220	
48	5240	

JZJUWII IZ			
	40MHz		
СН	Ę	Freq.	
	(MHz)		
	38	5190	
	46	5230	

ĺ	80MHz		
	СН	Freq. (MHz)	
	42	5210	
L	72	0210	

## UNII-2A 5250 MHz ~ 5350MHz 20MHz Freq. CH (MHz)

52	5260
56	5280
60	5300
64	5320

40MHz		
СН	Freq.	
	(MHz)	
54	5270	
62	5310	
	-	

40MHz

CH

151

159

Freq.

(MHz)

5755 5795

80MHz		
OUIVITZ		
СН	Freq.	
	(MHz)	
58	5290	

160MHz		
СН	Freq.	
	(MHz)	
50	5250	

## **UNII-2C 5470 MHz**

20MHz		
СН	Freq. (MHz)	
100	5500	
104	5520	
108	5540	
112	5560	
116	5580	
120	5600	
124	5620	
128	5640	
132	5660	
136	5680	
140	5700	
144	5720	

~ 5725MHz			
	40MHz		
	СН	Freq.	
		(MHz)	
	102	5510	
	110	5550	
	118	5590	
	126	5630	
	134	5670	
	142	5710	

80MHz		
СН	Freq.	
	(MHz)	
106	5530	
122	5610	
138	5690	

160MHz		
СН	Freq. (MHz)	
114	5570	

# UNII-3 5725 MHz ~ 5850MHz

20MHz							
СН	Freq. (MHz)						
149	5745						
153	5765						
157	5785						
161	5805						
165	5825						

	80	MHz
	CH	Freq.
	СП	(MHz)
	155	5775

## UNII-4 5850 MHz ~ 5925MHz

20MHz							
СН	Freq.						
CII	(MHz)						
169	5845						
173	5865						
177	5885						

40MHz							
СН	Freq.						
5	(MHz)						
167	5835						
175	5875						

80	80MHz							
СН	Freq.							
CIT	(MHz)							
171	5885							

160MHz							
СН	Freq.						
GII	(MHz)						
163	5815						

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Page: 17 of 1318

# The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

	Modulation	Transmission Chain						Single Transmission Spatial		Multiple Transmission Spatial			
٧	802.11 a	٧	ChA	(	ChB		ChC		ChD	٧	Chain A		1TX

								Tra	Single ansmission Spatial	Tra	Multiple ansmission Spatial		
V	802.11 a		ChA	٧	ChB		ChC		ChD	٧	Chain B		1TX

	Modulation		,	Trar	nsmiss	ion	Chain		Tra	Single ansmission Spatial	Tra	Multiple ansmission Spatial
٧	802.11 n	٧	ChA	٧	ChB		ChC	ChD		1TX	٧	Chain A + Chain B
٧	802.11 ac	٧	ChA	٧	ChB		ChC	ChD		1TX	٧	Chain A + Chain B
٧	802.11 ax	٧	ChA	٧	ChB		ChC	ChD		1TX	٧	Chain A + Chain B
٧	802.11 be	٧	ChA	٧	ChB		ChC	ChD		1TX	٧	Chain A + Chain B

Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

	CONDUCTED TEST											
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA						
MODE	BAND (MHz)	CHANNEL	CHANNEL	WODULATION	(Mbps)	PORT						
	5180~5240	36 to 48	36,44,48			chA						
	5260~5320	52 to 64	52,60,64		6							
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM								
	5745~5825	149 to 165	149,157,165									
	5845~5885	169 to 177	169,173,177									

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Page: 18 of 1318

			CON	NDUCTED TEST				
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATI	DATA RATE		ANTENNA	
WIODE	BAND (MHz)	CHANNEL	CHANNEL	WODULATI	(Mbps)	ops)		
	5180~5240	36 to 48	36,44,48					
	5260~5320	52 to 64	52,60,64					
802.11a	5500~5720	100 to 144	100,116,140,1	44 OFDM	6		chB	
	5745~5825	149 to 165	149,157,165	5				
	5845~5885	169 to 177	169,173,177	,				
	•	•	CO	NDUCTED TEST				
MODE	FREQUENCY	AVAILABLE	TESTED	MODUL ATION	DATA RATE	A۱	NTENNA	
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mbps)		PORT	
	5180~5240	36 to 48	36,44,48					
	5260~5320	52 to 64	52,60,64					
<u> </u>	5500~5720	100 to 144	100,116,140,144	OFDM	MCS0	Chain	A + Chain B	
	5745~5825	149 to 165	149,157,165					
	5845~5885	169 to 177	169,173,177					
	5190~5230	38 to 46	38,46					
	5270~5310	54 to 62	54,62					
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	Chain	A + Chain B	
	5755~5795	151 to 159	151,159					
	5835~5875	167 to 175	167,175					
	5210	42	42					
	5290	58	58					
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	Chain	A + Chain B	
	5775	155	155					
	5855	171	171					
	5250	50	50					
802.11ac_VHT160	5570	114	114	OFDM	MCS0	Chain	A + Chain B	
	5815	163	163					

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Page: 19 of 1318

			CO	NDUCTED TEST			
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA
WODE	BAND (MHz)	CHANNEL	CHANNEL	WODOLATION	CONFIGURATION	(Mbps)	PORT
	5180~5240	36 to 48	36,44,48		5111 BH		
	5260~5320	52 to 64	52,60,64		FULL RU 26/0,26/8		
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	52/37,52/40	MCS0	Chain A + Chain B
	5745~5825	149 to 165	149,157,165		106/53,106/54		
	5845~5885	169 to 177	169,173,177		,,,		
	5190~5230	38 to 46	38,46				Chain A + Chain B
802.11ax_HE40	5270~5310	54 to 62	54,62	OFDMA	FULL RU 242/61,242/62		
	5510~5710	102 to 142	102,110,134,142			MCS0	
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
	5210	42	42				
	5290	58	58		FULL RU		
802.11ax_HE80	5530~5690	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	Chain A + Chain B
	5775	155	155		404/00,404/00		
	5855	171	171				
	5250	50	50		FULL RU		
802.11ax_HE160	5570	114	114	OFDMA	996/67,996/S67	MCS0	Chain A + Chain B
	5815	163	163		330/01,330/001		

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Page: 20 of 1318

				NDUCTED TEST				
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)		ntenna Port
	5180~5240	36 to 48	36,44,48		FULL RU			
	5260~5320	52 to 64	52,60,64		26/0,26/8 52/37,52/40			
802.11be_EHT20	5500~5720	100 to 144	100,116,140,144	OFDMA	106/53,106/54, 52+26MRU1,	MCS0	Chain	A + Chain B
	5745~5825	149 to 165	149,157,165		52+26MRU3,			
	5845~5885	169 to 177	169,173,177		106+26MRU1, 106+26MRU2			
	5190~5230	38 to 46	38,46					
	5270~5310	54 to 62	54,62		5. W. J. D. J.			
302.11be_EHT40	5510~5710	510~5/10   102 to 142   102 110 134 142   OFDMA	FULL RU	MCS0	Chain	A + Chain B		
	5755~5795	151 to 159	151,159		242/61,242/62			
	5835~5875	167 to 175	167,175					
	5210	42	42					
	5290	58	58		FULL RU			
802.11be_EHT80	5530~5690	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	Chain	A + Chain B
_	5775	155	155		484+242MRU1, 484+242MRU4			
	5855	171	171					
	5250	50	50	OFDMA	FULL RU 996/67,996/S67, 996+484MRU1, 996+484MRU2,			
302.11be_EHT160	5570	114	114		OFDMA	996+484MRU3, 996+484MRU4, 996+484+242MRU1,	MCS0	Chain
	5815	163	163		996+484+242MRU2, 996+484+242MRU7, 996+484+242MRU8			
	<u>'</u>	TRA	ISMIT RADIATED	EMISSION TES	T (BELOW 1 GHz)	-		
	FREQUENCY	/ AVAILABLE	TESTED		DAT	A RATE		ANTENNA
MODE	BAND (MHz)		CHANNEL	MODULATI	ON (N	Mbps)		PORT
	5180~5240	36 to 48	44		(	-1/		
	5260~5320	52 to 64	60					
802.11a	5500~5720	100 to 144		OFDM		6		Chain A
002.114	5745~5825	149 to 165				· ·		Onaii 71
	5845~5885	169 to 177		<del></del>				
	3043~3003	l .		EMISSION TES	 T (ABOVE 1 GHz)			
	EDEOLIENO	1	ı	LIVIOSION 1ES		A RATE		ANTENNA
MODE	FREQUENCY BAND (MHz)			MODULATI	ON I			
					(1)	/lbps)		PORT
	5180~5240	36 to 48	36,44,48					
-c- ·	5260~5320	52 to 64	52,60,64					
802.11a	5500~5720	100 to 144				6		Chain A
	5745~5825	149 to 165						
	5845~5885	169 to 177	169,173,177	'				1

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Page: 21 of 1318

	1	1	ISMIT RADIATED	EMISSION TES	T (BELOW 1 (			1
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATI	ON	DATA RATE		ANTENNA
WODE	BAND (MHz)	CHANNEL	CHANNEL	WODOLY		(Mbps)		PORT
	5180~5240	36 to 48	44					
	5260~5320	52 to 64	60					
802.11a	5500~5720	100 to 144	116	OFDM		6		Chain B
	5745~5825	149 to 165	157					
	5845~5885	169 to 177	173					
		TRAN	ISMIT RADIATED	EMISSION TES	T (ABOVE 1 G	GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATI	ON	DATA RATE		ANTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATI	ON	(Mbps)		PORT
	5180~5240	36 to 48	36,44,48					
	5260~5320	52 to 64	52,60,64					
802.11a	5500~5720	100 to 144	100,116,140,1	44 OFDM		6		Chain B
	5745~5825	149 to 165	149,157,165	;				
	5845~5885	169 to 177	169,173,177	,				
	•	TRA	NSMIT RADIATED	EMISSION TEST	(ABOVE 1 GI	Hz)		•
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION		DATA RATE	Α	NTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION		(Mbps)		PORT
	5180~5240	36 to 48	36,44,48					
	5260~5320	52 to 64	52,60,64					
802.11n_HT20	5500~5720	100 to 144	100,116,140,144	OFDM		MCS0	Chain	A + Chain B
	5745~5825	149 to 165	149,157,165					
	5845~5885	169 to 177	169,173,177					
	5190~5230	38 to 46	38,46					
	5270~5310	54 to 62	54,62					
802.11n_HT40	5510~5710	102 to 142	102,110,134,142	OFDM		MCS0	Chain	A + Chain B
	5755~5795	151 to 159	151,159					
	5835~5875	167 to 175	167,175					
	5210	42	42					
	5290	58	58				ļ., .	
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM		MCS0	Chain	A + Chain B
	5775	155	155					
	5855	171	171					
900 11aa VIIIT400	5250	50	50	OFDM		MCCO	Chair	A . Chair D
802.11ac_VHT160	+	114	114	OFDM		MCS0	Cnain	A + Chain B
	5815	163	163					

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Page: 22 of 1318

	1		ANSMIT RADIATED	EMISSION TEST	(ABOVE 1 GHz)	ı	T	
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA	
WODE	BAND (MHz)	CHANNEL	CHANNEL	WODOLKHON	CONFIGURATION	(Mbps)	PORT	
	5180~5240	36 to 48	36,44,48		EUL DU			
	5260~5320	52 to 64	52,60,64		FULL RU 26/0,26/8			
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	52/37,52/40	MCS0	Chain A + Chain	
	5745~5825	149 to 165	149,157,165		106/53,106/54			
	5845~5885	169 to 177	169,173,177		,			
	5190~5230	38 to 46	38,46					
	5270~5310	54 to 62	54,62		FULL RU			
802.11ax_HE40	5510~5710	102 to 142	102,110,134,142	OFDMA	242/61,242/62	MCS0	Chain A + Chain	
	5755~5795	151 to 159	151,159		212/01,212/02			
	5835~5875	167 to 175	167,175					
	5210	42	42					
	5290	58	58		FULL RU			
802.11ax_HE80	5530~5690	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	Chain A + Chain	
	5775	155	155		10 1/00, 10 1/00			
	5855	171	171					
	5250	50	50		בווון סוו			
802.11ax_HE160	5570	114	114	OFDMA	FULL RU 996/67,996/S67	MCS0	Chain A + Chain	
	5815	163	163		330/01,330/001			
		TR	ANSMIT RADIATED	EMISSION TEST	(ABOVE 1 GHz)			
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	RU	DATA RATE	ANTENNA	
WODL	BAND (MHz)	CHANNEL	CHANNEL	WODOLATION	CONFIGURATION	(Mbps)	PORT	
	5180~5240	36 to 48	36,44,48		FULL RU			
	5260~5320	52 to 64	52,60,64	26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3				
802.11be_EHT20	5500~5720	100 to 144	100,116,140,144			MCS0	Chain A + Chain	
	5745~5825	149 to 165	149,157,165					
	5845~5885	169 to 177	169,173,177		106+26MRU1,MRU2			
	5190~5230	38 to 46	38,46					
	5270~5310	54 to 62	54,62					
802.11be_EHT40	5510~5710	102 to 142	102,110,134,142	OFDMA	FULL RU	MCS0	Chain A + Chain	
002.1100_E11110	5755~5795	151 to 159	151,159	OI DIWIT	242/61,242/62	WOOD	Chair / Chair	
	5835~5875	167 to 175	167,175					
	5210	42	42					
	5290	58	58		FULL RU			
802.11be_EHT80	5530~5690	106 to 138	106,122,138	OFDMA	484/65,484/66	MCS0	Chain A + Chain	
002.11bc_L11100	5775	155	155	OI DIWIT	484+242 MRU1,MRU4	WIOOU	Ondin 70 Ondin	
	5855	171	171					
	3033	171	171		FULL RU			
	5250	50	50		996/67,996/S67 996+484 MRU1,MRU2			
802.11be_EHT160	5570	114	114	OFDMA	OFDMA	996+484 MRU3,MRU4 996+484+242	MCS0	Chain A + Chain
	5815	163	163		MRU1,MRU2 996+484+242 MRU7,MRU8			

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Page: 23 of 1318

#### Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High under TB mode, the worst case position was NB mode as reported.

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Page: 24 of 1318

# 5 MEASUREMENT UNCERTAINTY

Test Items	Un	certain	ty
AC Power Line Conducted Emission	+/- 1.54 dl		
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz		
Foldrization. Vertical	+/-	3.43	dB	1GHz - 18GHz		
	+/-	3.86	dB	18GHz - 40GHz		
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.02	dB	30MHz - 1000MHz		
Polarization. Horizontal	+/-	3.43	dB	1GHz - 18GHz		
	+/-	3.86	dB	18GHz - 40GHz		
	+/-	2	dB	33GHz-50GHz		
	+/-	1.59	dB	50GHz-60GHz		
Radiated Spurious Emission	+/-	1.7	dB	60GHz-90GHz		
	+/-	1.64	dB	90GHz-140GHz		
	+/-	3.83	dB	140GHz-220GHz		

## Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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Page: 25 of 1318

# MEASUREMENT EQUIPMENT USED

#### 6.1 **Emission from AC power line**

	AC Power-Line Conducted Emission Test Site: Conduction 1									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2024	06/21/2025					
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025					
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025					
LISN	SCHWARZBECK	NSLK 8127	1041	10/26/2023	10/25/2024					
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025					
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R					

#### 6.2 **Condcuted Measurement**

	Conducted Emission Test Site: Conducted 1								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Attenuator	Mini-Circuits	BW-S10W2+	28	12/12/2023	12/11/2024				
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024				
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025				
Power Meter	Anritsu	ML2496A	1804001	04/16/2024	04/15/2025				
Power Sensor	Anritsu	MA2411B	1726104	04/16/2024	04/15/2025				
Power Sensor	Anritsu	MA2411B	1726107	04/16/2024	04/15/2025				
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R				

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Page: 26 of 1318

## **Radiated Measurement**

Radiated Emission Test Site: SAC 3							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
7G High Pass Filter	WI	WHKX7.0	45	12/12/2023	12/11/2024		
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024		
Band Reject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/12/2023	12/11/2024		
Band Reject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/12/2023	12/11/2024		
Band Reject Filter 5725-5875	Micro-Tronics	BRC500705-01	1	12/12/2023	12/11/2024		
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025		
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025		
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025		
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025		
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025		
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024		
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025		
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024		
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025		
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025		
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025		
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025		
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R		

**NOTE:** N.C.R refers to Not Calibrated Required.

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Page: 27 of 1318

# 7 CONDUCTED EMISSION TEST

# 7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range	Limits (dBuV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

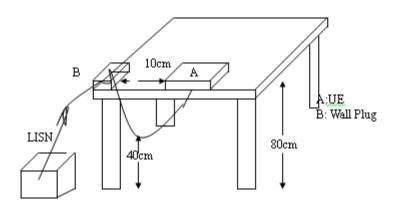
#### Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

# 7.2 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

# 7.3 Test SET-UP



## 7.4 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed.

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Page: 28 of 1318

## 7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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:Nick Lin

Page: 29 of 1318

# AC POWER LINE CONDUCTED EMISSION TEST DATA

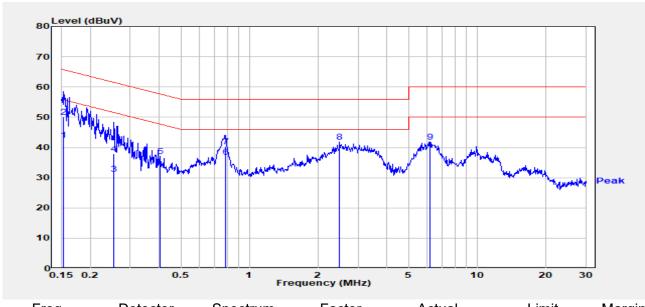
Report Number :TERF2409002608ER Test Site :Conduction 1

Operation Mode: WLAN 5G Test Date :2024-09-11

Temp./Humi. :26.4°C/51% Power :120V/60Hz Probe Engineer

Note:

:L



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.152	Average	32.20	10.25	42.45	55.87	-13.42
0.152	QP	39.90	10.25	50.15	65.87	-15.72
0.255	Average	20.90	10.25	31.15	51.60	-20.45
0.255	QP	27.70	10.25	37.95	61.60	-23.65
0.404	Peak	26.89	10.25	37.14	57.77	-20.63
0.783	Average	26.50	10.32	36.82	46.00	-9.18
0.783	QP	30.00	10.32	40.32	56.00	-15.68
2.487	Peak	30.84	10.95	41.78	56.00	-14.22
6.186	Peak	31.29	10.57	41.86	60.00	-18.14

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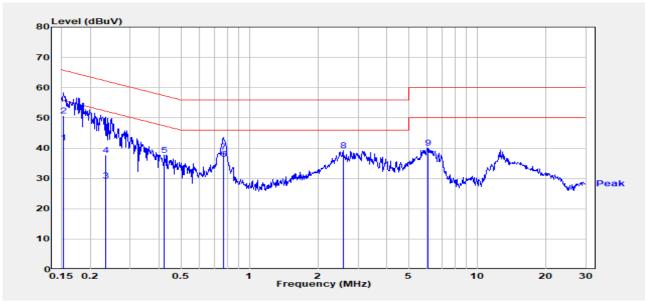
Page: 30 of 1318

Report Number :TERF2409002608ER Test Site :Conduction 1

Operation Mode: WLAN 5G Test Date :2024-09-11 Temp./Humi. :26.4°C/51% Power :120V/60Hz

Engineer Probe :N :Nick Lin

Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.152	Average	31.70	10.25	41.95	55.87	-13.92
0.152	QP	40.50	10.25	50.75	65.87	-15.12
0.233	Average	19.00	10.25	29.25	52.35	-23.10
0.233	QP	27.40	10.25	37.65	62.35	-24.70
0.424	Peak	27.50	10.25	37.75	57.37	-19.62
0.767	Average	26.10	10.32	36.42	46.00	-9.58
0.767	QP	28.40	10.32	38.72	56.00	-17.28
2.581	Peak	28.23	10.93	39.16	56.00	-16.84
6.089	Peak	29.43	10.58	40.00	60.00	-20.00

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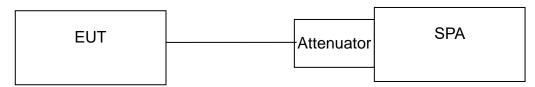
Page: 31 of 1318

## EMISSION BANDWIDTH MEASUREMENT

#### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C. The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3 & UNII-4.

#### 8.2 **Test Setup**



#### 8.3 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,

Detector = Peak,

Trace Mode = Max Hold,

Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.

- 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
- 4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
- 5. Minimum Emission Bandwidth for the band 5.725-5.850GHz. \$ 5.850~5.895GHz a. Set the spectrum analyzer as

RBW = 100 kHz,

VBW = 3\*RBW,

Span = large enough to capture all products of the modulation process,

Detector=Peak,

Sweep=auto

- b. Mark the peak frequency and -6dB (upper and lower) frequency.
- 6. For 99% Bandwidth: Set the spectrum analyzer as

RBW = 1%,

VBW = 3\*RBW.

Span = large enough to capture all products of the modulation process,

Detector=Sample,

Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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Page: 32 of 1318

## 8.4 Measurement Result

# 8.4.1 FCC Occupied Bandwidth

Mode: Chain A

## 802.11a ChA

00E1110_011/1							
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)					
5180	23.37	13.690					
5220	23.36	13.680					
5240	22.81	13.580					
5260	23.16	13.650					
5300	23.22	13.660					
5320	22.59	13.540					
5500	22.86	13.590					
5580	22.21	13.470					
5700	22.62	13.540					
5720(U-NII 2C)	16.40	12.150					
5720(U-NII 3)	6.40	8.070					

## 802.11a\_ChA

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.140
5785	12.20	10.860
5825	13.17	11.200
5845(U-NII 3)	11.20	10.490
5845(U-NII 4)	1.20	0.790
5865	16.03	12.050
5885	13.25	11.220

## 802.11a ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.36	< 5250
5745	5736.75	> 5725

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Frequency v

Frequency •

Settings

Page: 33 of 1318

#### 802.11a 20MHz ChainA 5180MHz 802.11a 20MHz ChainA 5260MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Freq Offse 0 Hz Occupied Bandwidth 16.604 MHz Occupied Bandy width 16.529 MHz 13.9 dBm Total Powe 14.0 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB 99.00 % -26.00 dB Sep 16, 2024 11:34:27 AM .# 🕦 🖁 💢 Sep 16, 2024 11:38:58 AM .: 👺 🗄 💢 802.11a\_20MHz\_ChainA\_5220MHz 802.11a\_20MHz\_ChainA\_5300MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ KEYSIGHT Input RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB 5.220000000 GH 30.000 MHz Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvi Offset 11.25 dB Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 16.631 MHz Occupied Bandwidth 16.627 MHz % of OBW Power 99.00 % -26.00 dB % of OBW Power x dB 99.00 % -26.00 dB Sep 16, 2024 11:35:59 AM $\mathbb{H} X$ ■ 9 C ■ ? Sep 16, 2024 11:46:58 AM .:: 🔖 .:: 🤻 ::. 802.11a\_20MHz\_ChainA\_5240MHz 802.11a 20MHz ChainA 5320MHz Spectrum Analyzer 1 ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Freq Ref: Int (S) Freg Ref: Int (S) Mkr1 5 248356514 GHz 30.000 MHz Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvl Offset 11.25 dB Ref Value 20.00 dBm -10.82 dE ile/Div 10.0 dE 3.000000 MHz Auto Man Freq Offset 0 Hz Center 5.24000 GHz #Res BW 220.00 kHz #Video BW 680.00 kHz ter 5.32000 GHz #Video BW 820.00 kHz Center 5.32000 GHz #Res BW 240.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 16,699 MHz Occupied Bandwidth 16,609 MHz Total Power 15.4 dBm Total Power 14.3 dBm Transmit Freq Error % of OBW Power x dB 99.00 % -26.00 dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB

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Sep 16, 2024



Frequency •

Frequency v

Settings

Page: 34 of 1318

#### 802.11a 20MHz ChainA 5500MHz 802.11a 20MHz ChainA 5720MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW ٥ ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF 5.720000000 GHz 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Occupied Bandwid Occupied Bandwi vidth 16.704 MHz width 16.565 MHz 15.1 dBm Total Powe 13.4 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB 99.00 % -26.00 dB Sep 16, 2024 11:53:38 AM .# 🕦 🖁 💢 ■ 9 C ■ ? Sep 16, 2024 1:23:21 PM .:: 👺 🖫 💢 802.11a\_20MHz\_ChainA\_5580MHz 802.11a\_20MHz\_ChainA\_5745MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ KEYSIGHT Input: RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB 5.745000000 GHz 5.580000000 GH 30.000 MHz 30.000 MH Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvi Offset 11.25 dB Scale/Div 10.0 dB Scale/Div 10.0 dB -10.86 dBr Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 16.564 MHz Occupied Bandwidth 16.546 MHz % of OBW Power 99.00 % -26.00 dB mit Freq Error % of OBW Power x dB 99.00 % -6.00 dB Sep 16, 2024 .# 🕦 H X ■ 9 C ■ ? Sep 16, 2024 1:26:57 PM .:: 👺 🖽 💢 802.11a\_20MHz\_ChainA\_5700MHz 802.11a 20MHz ChainA 5785MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Freq Ref: Int (S) Freq Ref: Int (S) Span 30.000 MHa 30.000 MH Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvl Offset 11.25 dB Ref Value 20.00 dBm ile/Div 10.0 dE CF Step 3.000000 MHz 3.000000 MHz Auto Man Auto Man Freq Offse Freq Offse Center 5.70000 GHz #Res BW 240.00 kHz #Video BW 820.00 kHz nter 5.78500 GHz #Video BW 300.00 kHz Span 30 MHz Sweep 2.93 ms (1001 pts) Center 5.78500 GHz #Res BW 100.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 16,583 MHz Occupied Bandwidth 16,573 MHz Total Power 13.2 dBm Total Power 16.1 dBm Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB

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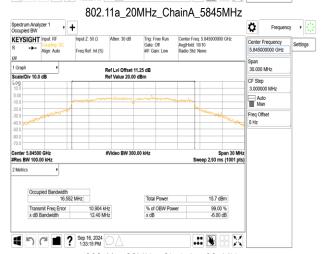
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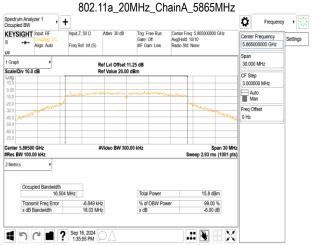


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Page: 35 of 1318

#### 802.11a 20MHz ChainA 5825MHz Spectrum Analyzer 1 Occupied BW Frequency • ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB 5.82500 1 Graph Auto Man Freq Offse 0 Hz Occupied Bandwi vidth 16.536 MHz 15.8 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -6.00 dB Sep 16, 2024 1:30:55 PM





802.11a 20MHz ChainA 5885MHz Spectrum Analyzer 1 Occupied BW Frequency • ٥ KEYSIGHT Input: RF Settings 1 Graph Scale/Div 10.0 dB Auto Man Freq Offset 0 Hz Occupied Bandwidth 16.480 MHz Total Powe 15.8 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB

Sep 16, 2024 1:38:41 PM

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Page: 36 of 1318

# Mode: Chain B

802.11a ChB

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.62	13.540
5220	24.01	13.800
5240	23.32	13.680
5260	23.70	13.750
5300	21.52	13.330
5320	21.68	13.360
5500	22.37	13.500
5580	23.56	13.720
5700	22.34	13.490
5720(U-NII 2C)	16.98	12.300
5720(U-NII 3)	6.98	8.440

# 802.11a\_ChB

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	11.58	10.640
5785	14.04	11.470
5825	12.96	11.130
5845(U-NII 3)	12.03	10.800
5845(U-NII 4)	2.03	3.070
5865	15.08	11.780
5885	16.39	12.150

# 802.11a\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.33	< 5250
5745	5736.75	> 5725

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Page: 37 of 1318

#### 802.11a 20MHz ChainB 5180MHz 802.11a 20MHz ChainB 5260MHz Spectrum Analyzer 1 Frequency • ٥ ٥ Frequency • Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF Settings 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandw Occupied Bandy width 16.633 MHz vidth 16.647 MHz 15.4 dBm Total Powe 14.2 dBm Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB 99.00 % -26.00 dB 99.00 % -26.00 dB ■ Sep 16, 2024 2:02:16 PM .# 署 🖁 💢 ■ 9 C ■ ? Sep 16, 2024 2:07:41 PM .: 👺 🗄 💢 802.11a\_20MHz\_ChainB\_5220MHz 802.11a\_20MHz\_ChainB\_5300MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Frequency v KEYSIGHT Input: RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB 5.220000000 GH 30.000 MHz 30.000 MHz Ref Lvi Offset 11.25 dB Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 16.603 MHz Occupied Bandwidth 16,680 MHz % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB 99.00 % -26.00 dB Sep 16, 2024 2:03:43 PM $\mathbb{H} X$ ■ 9 C ■ ? Sep 16, 2024 2:09:34 PM .:: 🔖 .∷ 🐺 802.11a\_20MHz\_ChainB\_5240MHz 802.11a 20MHz ChainB 5320MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Freg Ref: Int (S) Freg Ref: Int (S) Mkr1 5 248327377 GHz 30.000 MHz 30.000 MH Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvl Offset 11.25 dB Ref Value 20.00 dBm ile/Div 10.0 dE 3.000000 MHz 3.000000 MHz Auto Man Auto Man Freq Offse Freq Offset 0 Hz ter 5.24000 GH #Video BW 820.00 kHz ter 5.32000 GHz #Video BW 820.00 kHz Center 5.24000 GHz #Res BW 240.00 kHz Center 5.32000 GHz #Res BW 240.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 16.638 MHz Occupied Bandwidth 16,593 MHz Total Power 14.1 dBm Total Power 14.1 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -26.00 dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB

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Frequency •

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Frequency v

Page: 38 of 1318

#### 802.11a 20MHz ChainB 5500MHz 802.11a 20MHz ChainB 5720MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Freq Offse 0 Hz Occupied Bandw Occupied Bandw width 16.593 MHz vidth 16.632 MHz 13.5 dBm Total Powe 13.4 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB 99.00 % -26.00 dB Sep 16, 2024 2:12:44 PM .# 署 🖁 💢 ■ 9 C ■ ? Sep 16, 2024 2:18:27 PM .: 👺 🗄 💢 802.11a\_20MHz\_ChainB\_5580MHz 802.11a\_20MHz\_ChainB\_5745MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ KEYSIGHT Input: RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB 5.580000000 GH 30.000 MHz Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvi Offset 11.25 dB Scale/Div 10.0 dB Scale/Div 10.0 dB -11.23 dBr Auto Man Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 16.640 MHz Occupied Bandwidth 16.501 MHz % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB 99.00 % -6.00 dB Sep 16, 2024 2:14:37 PM .# 🕦 H X ■ 9 C ■ ? Sep 16, 2024 2:20:41 PM .:: 👺 🖽 💢 802.11a\_20MHz\_ChainB\_5700MHz 802.11a 20MHz ChainB 5785MHz Spectrum Analyzer 1 ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Freq Ref: Int (S) Freq Ref: Int (S) Span 30.000 MHa Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm Ref Lvi Offset 11.25 dB Ref Value 20.00 dBm ile/Div 10.0 dE CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz Center 5.70000 GHz #Res BW 240.00 kHz #Video BW 820.00 kHz nter 5.78500 GHz #Video BW 300.00 kHz Span 30 MHz Sweep 2.93 ms (1001 pts) Center 5.78500 GHz #Res BW 100.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 16.664 MHz Occupied Bandwidth 16,552 MHz Total Power 13.3 dBm Total Power 16.2 dBm Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB

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Sep 16, 2024 2:22:45 PM

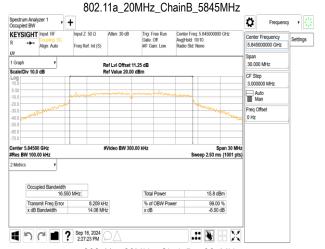
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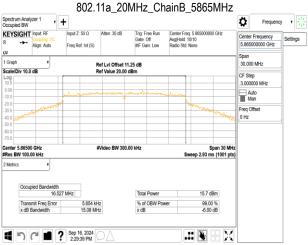


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Page: 39 of 1318

#### 802.11a 20MHz ChainB 5825MHz Spectrum Analyzer 1 Occupied BW Frequency • ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB 5.82500 1 Graph Auto Man Freq Offse 0 Hz Occupied Bandwidth 16.504 MHz Total Power 15.9 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -6.00 dB ■ Sep 16, 2024 2:24:41 PM





Spectrum Analyzer 1 Occupied BW Frequency • ٥ KEYSIGHT Input: RF Settings 1 Graph Scale/Div 10.0 dB Auto Man Freq Offset 0 Hz Occupied Bandwidth 16.547 MHz Total Powe 15.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB

Sep 16, 2024 2:31:43 PM

802.11a 20MHz ChainB 5885MHz

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Page: 40 of 1318

# Mode: Chain A + Chain B

# 802.11n HT20 ChA

002.11111_11120_011/1		
Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.00	13.620
5220	24.41	13.880
5240	24.72	13.930
5260	23.81	13.770
5300	22.93	13.600
5320	23.46	13.700
5500	23.76	13.760
5580	22.16	13.460
5700	22.77	13.570
5720(U-NII 2C)	16.94	12.290
5720(U-NII 3)	6.94	8.420

# 802.11n\_HT20\_ChA

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.61	12.200
5785	11.67	10.670
5825	16.54	12.190
5845(U-NII 3)	13.81	11.400
5845(U-NII 4)	3.81	5.810
5865	17.63	12.460
5885	16.07	12.060

# 802.11n\_HT20\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.14	> 5725

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Page: 41 of 1318

# 802.11n\_HT20\_ChB

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.96	13.610
5220	21.62	13.350
5240	23.35	13.680
5260	23.72	13.750
5300	23.16	13.650
5320	22.45	13.510
5500	23.39	13.690
5580	24.15	13.830
5700	22.54	13.530
5720(U-NII 2C)	16.85	12.260
5720(U-NII 3)	6.85	8.350

# 802.11n\_HT20\_ChB

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.19	12.350
5785	13.73	11.380
5825	17.19	12.350
5845(U-NII 3)	13.84	11.410
5845(U-NII 4)	3.84	5.840
5865	17.60	12.460
5885	17.63	12.460

# 802.11n\_HT20\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.83	< 5250
5745	5736.14	> 5725

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Page: 42 of 1318

# 802.11n HT40 ChA

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.84	16.220
5230	42.53	16.290
5270	41.80	16.210
5310	42.28	16.260
5510	43.08	16.340
5550	42.34	16.270
5670	42.54	16.290
5710(U-NII 2C)	36.48	15.620
5710(U-NII 3)	6.48	8.120

# 802.11n\_HT40\_ChA

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.85	15.540
5795	31.68	15.010
5835(U-NII 3)	33.48	15.250
5835(U-NII 4)	3.48	5.420
5875	33.13	15.200

# 802.11n HT40 ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.01	< 5250
5755	5736.98	> 5725

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Page: 43 of 1318

# 802.11n\_HT40\_ChB

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.45	16.280
5230	41.88	16.220
5270	42.99	16.330
5310	42.21	16.250
5510	42.31	16.260
5550	42.14	16.250
5670	41.74	16.210
5710(U-NII 2C)	36.67	15.640
5710(U-NII 3)	6.67	8.240

# 802.11n\_HT40\_ChB

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	26.96	14.310
5795	36.35	15.610
5835(U-NII 3)	33.59	15.260
5835(U-NII 4)	3.59	5.540
5875	26.12	14.170

# 802.11n HT40 ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.98	< 5250
5755	5736.97	> 5725

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Page: 44 of 1318

# 802.11ac VHT80 ChA

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	84.29	19.260
5290	84.20	19.250
5530	83.73	19.230
5610	86.31	19.360
5690(U-NII 2C)	76.67	18.850
5690(U-NII 3)	6.67	8.240

# 802.11ac\_VHT80\_ChA

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	61.96	17.920
5855(U-NII 3)	22.24	13.470
5855(U-NII 4)	32.24	15.080

# 802.11ac\_VHT80\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.62	< 5250
5775	5737.37	> 5725

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# 802.11ac VHT80 ChB

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.00	19.190
5290	82.62	19.170
5530	83.86	19.240
5610	85.41	19.320
5690(U-NII 2C)	76.69	18.850
5690(U-NII 3)	6.69	8.250

# 802.11ac\_VHT80\_ChB

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.11	18.760
5855(U-NII 3)	32.50	15.120
5855(U-NII 4)	42.50	16.280

# 802.11ac\_VHT80\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.51	< 5250
5775	5737.41	> 5725

# 802.11ac\_VHT160\_ChA

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	163.1	22.120
5570	163.3	22.130

# 802.11ac \_VHT160\_ChA

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	108.3	20.350
5815(U-NII 4)	38.3	15.830

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Page: 46 of 1318

# 802.11ac\_VHT160\_ChB

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	163.2	22.130
5570	162.9	22.120

# 802.11ac \_VHT160\_ChB

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815(U-NII 3)	107.1	20.300
5815(U-NII 4)	37.1	15.690

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Page: 47 of 1318

802.11ax HE20 ChA

8UZ.11aX_HEZU_CNA			
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	23.42	13.700
5180	26/0	19.64	12.930
5180	52/37	19.35	12.870
5180	106/53	19.96	13.000
5220	full	23.43	13.700
5240	full	22.29	13.480
5260	full	22.87	13.590
5300	full	23.92	13.790
5320	full	23.18	13.650
5320	26/8	19.96	13.000
5320	52/40	19.03	12.790
5320	106/54	18.93	12.770
5500	full	22.12	13.450
5500	26/0	19.67	12.940
5500	52/37	18.67	12.710
5500	106/53	20.29	13.070
5580	full	22.13	13.450
5700	full	22.53	13.530
5700	26/8	18.78	12.740
5700	52/40	19.73	12.950
5700	106/54	19.93	13.000
5720	full	16.26	12.110
(U-NII 2C)	iuli	10.20	12.110
5720	full	6.26	7.970
(U-NII 3)		0.20	1.310
202 11av L	IE 20 OL 4		

#### 802.11ax\_HE20\_ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	16.30	12.120
5745	26/0	2.05	3.110
5745	52/37	4.03	6.050
5745	106/53	8.32	9.200
5785	full	18.47	12.660
5825	full	15.01	11.760
5825	26/8	2.04	3.090
5825	52/40	4.11	6.140
5825	106/54	17.07	12.320
5845 (U-NII 3)	full	14.09	11.490
5845 (U-NII 4)	full	4.09	6.120
5865	full	17.18	12.350
5865	26/0	2.05	3.120
5865	52/37	4.06	6.080
5865	106/53	8.13	9.100
5885	full	14.92	11.740
5885	26/8	2.05	3.110
5885	52/40	4.05	6.070
5885	106/54	8.24	9.160

#### 802.11ax\_HE20\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.42	< 5250
5745	5735.53	> 5725

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Page: 48 of 1318

802.11ax HE20 ChB

802.11ax_HE20_ChB			
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.09	13.440
5180	26/0	19.47	12.890
5180	52/37	18.23	12.610
5180	106/53	18.53	12.680
5220	full	22.69	13.560
5240	full	23.40	13.690
5260	full	22.57	13.540
5300	full	22.72	13.560
5320	full	23.14	13.640
5320	26/8	19.74	12.950
5320	52/40	19.32	12.860
5320	106/54	20.29	13.070
5500	full	23.75	13.760
5500	26/0	17.85	12.520
5500	52/37	19.65	12.930
5500	106/53	18.76	12.730
5580	full	23.51	13.710
5700	full	20.89	13.200
5700	26/8	18.53	12.680
5700	52/40	19.87	12.980
5700	106/54	19.55	12.910
5720	full	15.94	12.030
(U-NII 2C)	iuli	13.34	12.030
5720	full	5.94	7.740
(U-NII 3)	-	0.54	7.740
802 11av HE20 ChR			

#### 802.11ax\_HE20\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	16.91	12.280
5745	26/0	2.12	3.250
5745	52/37	4.05	6.070
5745	106/53	8.32	9.200
5785	full	18.67	12.710
5825	full	16.70	12.230
5825	26/8	2.10	3.210
5825	52/40	3.95	5.960
5825	106/54	16.46	12.160
5845 (U-NII 3)	full	13.79	11.400
5845 (U-NII 4)	full	3.79	5.790
5865	full	11.04	10.430
5865	26/0	2.01	3.040
5865	52/37	4.06	6.080
5865	106/53	8.22	9.150
5885	full	18.32	12.630
5885	26/8	2.08	3.180
5885	52/40	3.96	5.970
5885	106/54	8.21	9.140

#### 802.11ax\_HE20\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.40	< 5250
5745	5735.54	> 5725

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Page: 49 of 1318

#### 802.11ax HE40 ChA

	L+0_011/1		
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	43.15	16.350
5190	242/61	20.22	13.060
5230	full	41.50	16.180
5270	full	42.23	16.260
5310	full	41.25	16.150
5310	242/62	20.20	13.050
5510	full	40.92	16.120
5510	242/61	20.13	13.040
5550	full	41.44	16.170
5670	full	42.86	16.320
5670	242/62	20.58	13.130
5710	full	36.48	15.620
(U-NII 2C)	IUII	30.40	10.020
5710	full	6.48	8.120
(U-NII 3)			

# 802.11ax\_HE40\_ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	34.20	15.340
5755	242/61	18.17	12.590
5795	full	36.80	15.660
5795	242/62	18.77	12.730
5835 (U-NII 3)	full	33.02	15.190
5835 (U-NII 4)	full	3.02	4.810
5875	full	36.99	15.680
5875	242/61	17.71	12.480
5875	242/62	17.93	12.540

# 802.11ax\_HE40\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.81	< 5250
5755	5736.27	> 5725

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Page: 50 of 1318

#### 802.11ax HE40 ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.62	16.300
5190	242/61	20.26	13.070
5230	full	41.37	16.170
5270	full	42.70	16.300
5310	full	41.08	16.140
5310	242/62	19.89	12.990
5510	full	40.78	16.100
5510	242/61	20.28	13.070
5550	full	42.10	16.240
5670	full	42.25	16.260
5670	242/62	20.33	13.080
5710	full	35.88	15.550
(U-NII 2C)	iuli	JJ.00	15.550
5710 (U-NII 3)	full	5.88	7.690

# 802.11ax\_HE40\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	33.81	15.290
5755	242/61	17.75	12.490
5795	full	33.86	15.300
5795	242/62	18.75	12.730
5835 (U-NII 3)	full	31.93	15.040
5835 (U-NII 4)	full	1.93	2.860
5875	full	32.29	15.090
5875	242/61	18.42	12.650
5875	242/62	18.54	12.680

# 802.11ax\_HE40\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.71	< 5250
5755	5736.28	> 5725

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Page: 51 of 1318

# 802.11ax\_HE80\_ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	82.60	19.170
5210	484/65	38.94	15.900
5290	full	81.53	19.110
5290	484/66	39.43	15.960
5530	full	82.12	19.140
5530	484/65	39.36	15.950
5610	full	82.91	19.190
5610	484/66	39.62	15.980
5690	full	75.59	18.780
(U-NII 2C)	IUII	13.33	10.700
5690	full	5.59	7.470
(U-NII 3)	idii	0.00	1.710

# 802.11ax\_HE80\_ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	69.05	18.390
5775	484/65	36.65	15.640
5775	484/66	35.27	15.470
5855	full	32.06	15.060
(U-NII 3)	iuii	32.00	13.000
5855	full	42.06	16.240
(U-NII 4)	iuii	72.00	10.240

# 802.11ax\_HE80\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.38	< 5250
5775	5736.73	> 5725

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Page: 52 of 1318

# 802.11ax\_HE80\_ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	84.06	19.250
5210	484/65	39.20	15.930
5290	full	82.85	19.180
5290	484/66	39.27	15.940
5530	full	82.04	19.140
5530	484/65	38.76	15.880
5610	full	83.18	19.200
5610	484/66	39.88	16.010
5690	full	75.81	18.800
(U-NII 2C)	iuli	75.01	10.000
5690 (U-NII 3)	full	5.81	7.640

# 802.11ax\_HE80\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	63.82	18.050
5775	484/65	35.66	15.520
5775	484/66	37.41	15.730
5855 (U-NII 3)	full	32.64	15.140
5855 (U-NII 4)	full	42.64	16.300

# 802.11ax\_HE80\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.19	< 5250
5775	5736.61	> 5725

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Page: 53 of 1318

# 802.11ax HE160 ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.30	22.130
5250	996/67	80.47	19.060
5250	996/S67	80.01	19.030
5570	full	163.70	22.140
5570	996/67	80.84	19.080
5570	996/S67	80.44	19.050

# 802.11ax \_HE160\_ChA

	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815	full	109.0	20.370
(U-NII 3)	iuii	105.0	20.070
5815	full	39.0	15.910
(U-NII 4)	IUII	J9.U	15.910

# 802.11ax\_HE160\_ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.50	22.140
5250	996/67	80.41	19.050
5250	996/S67	80.23	19.040
5570	full	163.80	22.140
5570	996/67	80.47	19.060
5570	996/S67	81.30	19.100

# 802.11ax \_HE160\_ChB

	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	106.6	20.280
5815 (U-NII 4)	full	36.6	15.640

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Page: 54 of 1318

#### 802.11be EHT20 ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.06	13.440
5180	26/0	18.73	12.730
5180	52/37	19.39	12.880
5180	106/53	18.82	12.750
5180	52+26 MRU1	18.63	12.700
5180	106+26 MRU1	21.01	13.220
5220	full	23.07	13.630
5240	full	22.88	13.590
5260	full	23.45	13.700
5300	full	23.02	13.620
5320	full	21.35	13.290
5320	26/8	19.06	12.800
5320	52/40	18.59	12.690
5320	106/54	19.02	12.790
5320	52+26 MRU3	18.86	12.760
5320	106+26 MRU2	19.68	12.940
5500	full	21.95	13.410
5500	26/0	18.37	12.640
5500	52/37	18.74	12.730
5500	106/53	18.68	12.710
5500	52+26 MRU1	15.88	12.010
5500	106+26 MRU1	21.05	13.230
5580	full	22.99	13.620
5700	full	22.93	13.600
5700	26/8	19.80	12.970
5700	52/40	19.97	13.000
5700	106/54	19.23	12.840
5700	52+26 MRU3	16.98	12.300
5700	106+26 MRU2	20.90	13.200
5720	11.3	16.06	12.060
(U-NII 2C)	full	10.06	12.000
5720 (U-NII 3)	full	6.06	7.820

#### 802.11be EHT20 ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	16.74	12.240
5745	26/0	2.01	3.040
5745	52/37	4.02	6.040
5745	106/53	8.23	9.150
5745	52+26 MRU1	6.16	7.900
5745	106+26 MRU1	10.80	10.330
5785	full	18.49	12.670
5825	full	18.21	12.600
5825	26/8	1.99	2.990
5825	52/40	4.03	6.060
5825	106/54	8.21	9.140
5825	52+26 MRU3	6.17	7.900
5825	106+26 MRU2	10.79	10.330
5845 (U-NII 3)	full	13.31	11.240
5845 (U-NII 4)	full	3.31	5.200
5865	full	14.91	11.730
5865	26/0	2.00	3.000
5865	52/37	3.98	6.000
5865	106/53	8.20	9.140
5865	52+26 MRU1	6.22	7.940
5865	106+26 MRU1	10.81	10.340
5885	full	18.17	12.590
5885	26/8	2.03	3.060
5885	52/40	4.53	6.560
5885	106/54	8.26	9.170
5885	52+26 MRU3	6.19	7.910
5885	106+26 MRU2	10.85	10.350

#### 802.11be\_EHT20\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.46	< 5250
5745	5735.53	> 5725

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Page: 55 of 1318

#### 802.11be\_EHT20\_ChB

OUZ.TIDE_EN12U_CHB				
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)	
5180	full	22.85	13.590	
5180	26/0	19.75	12.960	
5180	52/37	18.06	12.570	
5180	106/53	17.51	12.430	
5180	52+26 MRU1	17.90	12.530	
5180	106+26 MRU1	22.15	13.450	
5220	full	22.15	13.450	
5240	full	22.70	13.560	
5260	full	22.48	13.520	
5300	full	22.41	13.500	
5320	full	22.69	13.560	
5320	26/8	18.42	12.650	
5320	52/40	19.60	12.920	
5320	106/54	20.24	13.060	
5320	52+26 MRU3	17.60	12.460	
5320	106+26 MRU2	19.69	12.940	
5500	full	23.76	13.760	
5500	26/0	18.32	12.630	
5500	52/37	18.99	12.790	
5500	106/53	18.46	12.660	
5500	52+26 MRU1	16.36	12.140	
5500	106+26 MRU1	20.13	13.040	
5580	full	22.18	13.460	
5700	full	22.87	13.590	
5700	26/8	19.32	12.860	
5700	52/40	19.92	12.990	
5700	106/54	19.72	12.950	
5700	52+26 MRU3	17.99	12.550	
5700	106+26 MRU2	19.85	12.980	
5720	full	16.39	12.140	
(U-NII 2C)	iuii	10.59	12.140	
5720	full	6.39	8.050	
(U-NII 3)		0.00	0.000	

#### 802.11be\_EHT20\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	17.08	12.320
5745	26/0	2.15	3.320
5745	52/37	4.00	6.020
5745	106/53	8.13	9.100
5745	52+26 MRU1	6.16	7.890
5745	106+26 MRU1	10.83	10.350
5785	full	17.85	12.520
5825	full	18.22	12.610
5825	26/8	2.01	3.030
5825	52/40	4.51	6.540
5825	106/54	8.30	9.190
5825	52+26 MRU3	6.26	7.960
5825	106+26 MRU2	10.89	10.370
5845 (U-NII 3)	full	11.35	10.550
5845 (U-NII 4)	full	1.35	1.320
5865	full	14.63	11.650
5865	26/0	2.07	3.160
5865	52/37	4.04	6.060
5865	106/53	8.22	9.150
5865	52+26 MRU1	6.09	7.850
5865	106+26 MRU1	10.88	10.370
5885	full	12.36	10.920
5885	26/8	2.07	3.160
5885	52/40	4.12	6.150
5885	106/54	8.33	9.200
5885	52+26 MRU3	6.15	7.890
5885	106+26 MRU2	10.76	10.320

6dB

#### 802.11be\_EHT20\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.44	< 5250
5745	5735.51	> 5725

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Page: 56 of 1318

# 802.11be\_EHT40\_ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	41.41	16.170
5190	242/61	19.79	12.960
5230	full	41.73	16.200
5270	full	40.99	16.130
5310	full	42.09	16.240
5310	242/62	20.81	13.180
5510	full	41.17	16.150
5510	242/61	20.47	13.110
5550	full	42.32	16.270
5670	full	41.90	16.220
5670	242/62	20.13	13.040
5710	full	35.77	15.530
(U-NII 2C)	iuli	33.77	10.000
5710 (U-NII 3)	full	5.77	7.610

#### 802.11be\_EHT40\_ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	35.78	15.540
5755	242/61	18.07	12.570
5795	full	37.14	15.700
5795	242/62	15.33	11.860
5835 (U-NII 3)	full	32.80	15.160
5835 (U-NII 4)	full	2.80	4.470
5875	full	36.00	15.560
5875	242/61	17.13	12.340
5875	242/62	18.28	12.620

# 802.11be\_EHT40\_ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.71	< 5250
5755	5736.25	> 5725

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Page: 57 of 1318

# 802.11be\_EHT40\_ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.73	16.310
5190	242/61	19.66	12.940
5230	full	40.87	16.110
5270	full	42.62	16.300
5310	full	42.19	16.250
5310	242/62	20.11	13.030
5510	full	41.73	16.200
5510	242/61	20.29	13.070
5550	full	42.30	16.260
5670	full	42.31	16.260
5670	242/62	20.10	13.030
5710	full	35.67	15.520
(U-NII 2C)	iuli	33.07	13.320
5710 (U-NII 3)	full	5.66	7.530

#### 802.11be\_EHT40\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	30.10	14.790
5755	242/61	18.38	12.640
5795	full	36.14	15.580
5795	242/62	18.01	12.560
5835 (U-NII 3)	full	31.90	15.040
5835 (U-NII 4)	full	1.90	2.800
5875	full	32.62	15.130
5875	242/61	18.08	12.570
5875	242/62	17.33	12.390

# 802.11be\_EHT40\_ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.72	< 5250
5755	5736.23	> 5725

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Page: 58 of 1318

# 802.11be\_EHT80\_ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	82.15	19.150
5210	484/65	40.25	16.050
5210	484+242 MRU4	63.77	18.050
5290	full	82.27	19.150
5290	484/66	39.92	16.010
5290	484+242 MRU1	69.26	18.400
5530	full	82.53	19.170
5530	484/65	39.37	15.950
5530	484+242 MRU4	62.70	17.970
5610	full	83.29	19.210
5610	484/66	39.73	15.990
5610	484+242 MRU1	74.01	18.690
5690	full	76.28	18.820
(U-NII 2C)	iuii	10.20	10.020
5690	full	6.28	7.980
(U-NII 3)	idii	0.20	7.500

# 802.11be\_EHT80\_ChA

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	73.76	18.680
5775	484/65	36.08	15.570
5775	484/66	36.51	15.620
5775	484+242 MRU1	58.83	17.700
5775	484+242 MRU4	58.87	17.700
5855	full	33.10	15.200
(U-NII 3)	iuii	33.10	13.200
5855 (U-NII 4)	full	43.10	16.340

# 802.11be EHT80 ChA

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.41	< 5250
5775	5736.64	> 5725

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Page: 59 of 1318

# 802.11be\_EHT80\_ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	82.07	19.140
5210	484/65	40.01	16.020
5210	484+242 MRU4	65.52	18.160
5290	full	82.01	19.140
5290	484/66	40.12	16.030
5290	484+242 MRU1	71.85	18.560
5530	full	80.59	19.060
5530	484/65	39.31	15.950
5530	484+242 MRU4	62.94	17.990
5610	full	81.65	19.120
5610	484/66	39.95	16.020
5610	484+242 MRU1	75.01	18.750
5690	full	76.67	18.850
(U-NII 2C)	IUII	10.01	10.000
5690	full	6.66	8.240
(U-NII 3)	idii	0.00	0.210

# 802.11be\_EHT80\_ChB

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	64.09	18.070
5775	484/65	35.02	15.440
5775	484/66	36.05	15.570
5775	484+242 MRU1	58.74	17.690
5775	484+242 MRU4	58.81	17.690
5855 (U-NII 3)	full	30.68	14.870
5855 (U-NII 4)	full	40.68	16.090

# 802.11be EHT80 ChB

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.42	< 5250
5775	5736.69	> 5725

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Page: 60 of 1318

# 802.11be\_EHT160\_ChA

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	162.7	22.110
5250	996/67	80.1	19.040
5250	996/S67	80.8	19.070
5250	996+484 MRU1	122.8	20.890
5250	996+484 MRU2	163.6	22.140
5250	996+484+242 MRU1	145.8	21.640
5250	996+484+242 MRU2	163.9	22.150
5570	full	164.1	22.150
5570	996/67	80.5	19.060
5570	996/S67	80.3	19.050
5570	996+484 MRU3	166.0	22.200
5570	996+484 MRU4	122.8	20.890
5570	996+484+242 MRU7	164.0	22.150
5570	996+484+242 MRU8	145.8	21.640

# 802.11be EHT160 ChA

	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	111.4	20.470
5815 (U-NII 4)	full	41.4	16.170

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Page: 61 of 1318

#### 802.11be EHT160 ChB

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.8	22.140
5250	996/67	80.1	19.030
5250	996/S67	81.1	19.090
5250	996+484 MRU1	123.1	20.900
5250	996+484 MRU2	164.7	22.170
5250	996+484+242 MRU1	146.8	21.670
5250	996+484+242 MRU2	164.4	22.160
5570	full	164.8	22.170
5570	996/67	80.4	19.050
5570	996/S67	79.8	19.020
5570	996+484 MRU3	165.1	22.180
5570	996+484 MRU4	122.7	20.890
5570	996+484+242 MRU7	164.7	22.170
5570	996+484+242 MRU8	146.3	21.650

# 802.11be EHT160 ChB

	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	109.1	20.380
5815 (U-NII 4)	full	39.1	15.920

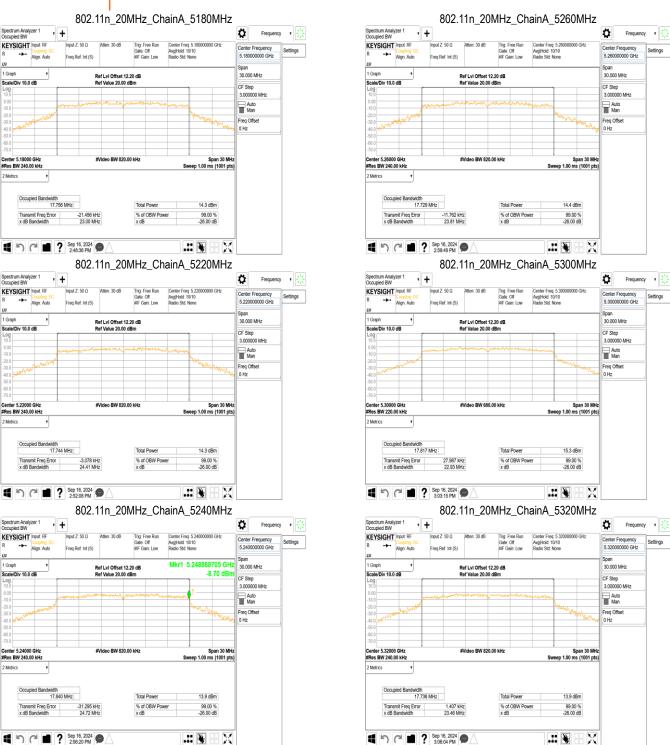
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Page: 62 of 1318



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Page: 63 of 1318

#### 802.11n 20MHz ChainA 5500MHz 802.11n 20MHz ChainA 5720MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF Settings 5.720000000 GHz Settings 5.500000 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Occupied Bandwidth 17.792 MHz Occupied Bandwidth 17.729 MHz 13.6 dBm Total Powe 13.6 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB 99.00 % -26.00 dB Sep 16, 2024 9 3:12:06 PM ■ ? Sep 16, 2024 ● .:: 署 🖁 💢 .:: 👺 🖫 💢 802.11n\_20MHz\_ChainA\_5580MHz 802.11n\_20MHz\_ChainA\_5745MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Frequency v KEYSIGHT Input RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB ettings 5.745000000 GH Freq Ref: Int (S) 5.580000000 GH Mkr1 5.736136142 GHz 30.000 MHz 30.000 MHz Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvi Offset 12.20 dB Scale/Div 10.0 dB Scale/Div 10.0 dB -9.29 dBr CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 17.706 MHz Occupied Bandwidth 17.693 MHz Transmit Freq Error x dB Bandwidth % of OBW Power 99.00 % -26.00 dB % of OBW Power x dB 99.00 % -6.00 dB 1 5 C 1 ? Sep 16, 2024 9 $\mathbb{H} X$ ■ ? Sep 16, 2024 ■ ? 325:59 PM .:: 👺 🖽 💢 .:: 🔖 802.11n\_20MHz\_ChainA\_5700MHz 802.11n 20MHz ChainA 5785MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Settings Freq Ref: Int (S) Freq Ref: Int (S) 30.000 MHz 30.000 MH Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm ile/Div 10.0 dE 3.000000 MHz 3.000000 MHz Auto Man Auto Man Freq Offse Freq Offset 0 Hz Center 5.70000 GHz #Res BW 240.00 kHz #Video BW 820.00 kHz nter 5.78500 GHz #Video BW 300.00 kHz Span 30 MHz Sweep 2.93 ms (1001 pts) Center 5.78500 GHz #Res BW 100.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 17.710 MHz Occupied Bandwidth 17.692 MHz Total Power 14.0 dBm Total Power 16.0 dBm Transmit Freq Error x dB Bandwidth Transmit Freq Error x dB Bandwith % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB Sep 16, 2024 9 3:28:42 PM ■ ? Sep 16, 2024 ● 3:18:20 PM ## B# X .# 👺 🖁 💢

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Page: 64 of 1318

#### 802.11n 20MHz ChainA 5825MHz 802.11n 20MHz ChainA 5885MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 O Atten: 30 dB KEYSIGHT Input: RF 5.825000000 GH Settings Settings 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Occupied Bandwidth 17.717 MHz Occupied Bandwidth 17.671 MHz 15.4 dBm Total Powe 15.5 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB 99.00 % -6.00 dB Sep 16, 2024 9 3:31:58 PM 4 9 P R Sep 16, 2024 9 3:42:45 PM .:: 署 🖁 💢 .: 👺 🗄 💢 802.11n\_20MHz\_ChainA\_5845MHz 802.11n\_20MHz\_ChainB\_5180MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Frequency v KEYSIGHT Input RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB ettings 5.180000000 GH Freq Ref: Int (S) 5.845000000 GH Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm 30.000 MHz Ref Lvl Offset 12.20 dB 30.000 MHz Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Span 30 MHz Sweep 2.93 ms (1001 pts) 2 Metrics Occupied Bandwidth 17.709 MHz Occupied Bandwidth 17.786 MHz Transmit Freq Error x dB Bandwidth % of OBW Power 99.00 % -6.00 dB % of OBW Power x dB 99.00 % -26.00 dB ■ ? Sep 26, 2024 ● .# 🕦 H X ■ ? Sep 16, 2024 ● 2:49:11 PM .:: 👺 🖽 💢 802.11n\_20MHz\_ChainA\_5865MHz 802.11n 20MHz ChainB 5220MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Settings Freq Ref: Int (S) Freq Ref: Int (S) 30.000 MHz 30.000 MHz Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvl Offset 12.20 dB Ref Value 20.00 dBm ile/Div 10.0 dE 3.000000 MHz 3.000000 MHz Auto Man Auto Man Freq Offse Freq Offset 0 Hz Center 5.86500 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz nter 5.22000 GHz #Video BW 820.00 kHz Center 5.22000 GHz #Res BW 240.00 kHz Sweep 2.93 ms (1001 pts Occupied Bandwidth 17.670 MHz Occupied Bandwidth 17.727 MHz Total Power 15.3 dBm Total Power 14.4 rlRm Transmit Freq Error x dB Bandwith Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -6.00 dB % of OBW Power x dB

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Page: 65 of 1318

#### 802.11n 20MHz ChainB 5240MHz 802.11n 20MHz ChainB 5320MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW Frequency • Ö ٥ Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF ut 7: 50 0 Atten: 30 dB KEYSIGHT Input: RF Settings 5.320000000 GHz 1 Graph Mkr1 5.248827639 GHz 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offse 0 Hz Freq Offset 0 Hz Occupied Bandwidth 17.736 MHz Occupied Bandwidth 17.708 MHz 14.4 dBm Total Powe 13.9 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB 99.00 % -26.00 dB Sep 16, 2024 9 Sep 16, 2024 93:06:39 PM .# 署 🖁 💢 .: 👺 🗄 💢 802.11n\_20MHz\_ChainB\_5260MHz 802.11n\_20MHz\_ChainB\_5500MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Frequency v KEYSIGHT Input RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB ettings 5.500000000 GH 5.260000000 GH 30.000 MHz 30.000 MHz Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvi Offset 12.20 dB Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz 2 Metrics Occupied Bandwidth 17.730 MHz Occupied Bandwidth 17.765 MHz % of OBW Power Transmit Freq Error x dB Bandwidth 99.00 % -26.00 dB % of OBW Power x dB 99.00 % -26.00 dB ■ ? Sep 16, 2024 ● $\mathbb{H} X$ ■ Sep 16, 2024 ■ ? Sep 16, 2024 ■ .:: 🔖 .∷ 🐺 802.11n\_20MHz\_ChainB\_5300MHz 802.11n 20MHz ChainB 5580MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Settings Freq Ref: Int (S) Freq Ref: Int (S) 30.000 MHz 30.000 MH Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm ile/Div 10.0 dE CF Step 3.000000 MHz 3.000000 MHz Auto Man Auto Man Freq Offse Freq Offset 0 Hz #Video BW 820.00 kHz #Video BW 820.00 kHz Center 5.30000 GHz #Res BW 240.00 kHz #Res BW 240.00 kHz Sweep 1.00 ms (1001 pts Occupied Bandwidth 17.772 MHz Occupied Bandwidth 17.755 MHz Total Power 13.9 dBm Total Power 13.8 dBm Transmit Freq Error x dB Bandwith Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB

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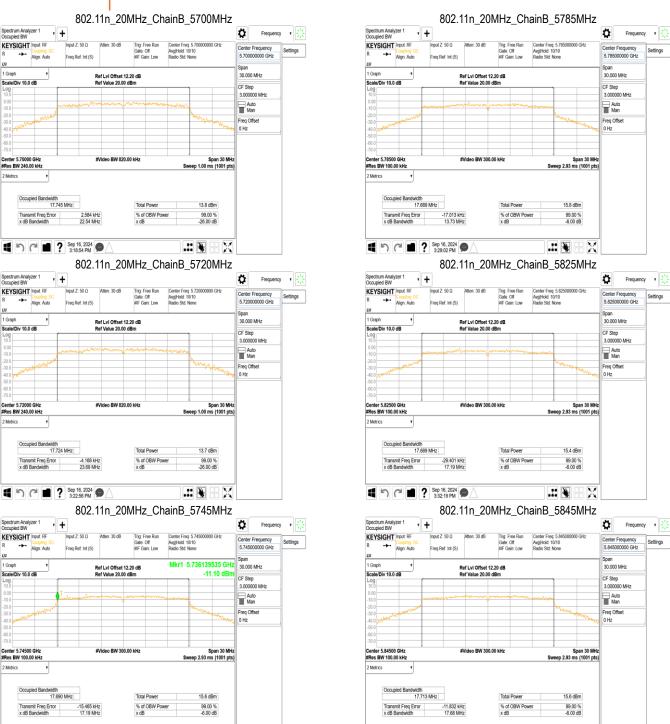
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Page: 66 of 1318



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Page: 67 of 1318

#### 802.11n 20MHz ChainB 5865MHz 802.11n 40MHz ChainA 5230MHz Spectrum Analyzer 1 Frequency • Spectrum Analyzer 1 Occupied BW ٥ Ö Frequency v Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF sut 7: 50 O Atten: 30 dB KEYSIGHT Input: RF Settings Settings Mkr1 5.248014009 GHz 1 Graph 1 Graph Scale/Div 10.0 dB Scale/Div 10.0 dB -6.19 dBr Auto Man Auto Man Freq Offse 0 Hz Freq Offse 0 Hz Occupied Bandwidth 17.685 MHz Occupied Bandwidth 36.040 MHz Total Power 15.5 dBm Total Powe 16.4 dBm % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power x dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB 99.00 % -26.00 dB Sep 16, 2024 9 ■ ? Sep 16, 2024 ● .:: 署 🖁 💢 .: 👺 🗄 💢 802.11n\_20MHz\_ChainB\_5885MHz 802.11n\_40MHz\_ChainA\_5270MHz Spectrum Analyzer 1 Occupied BW Spectrum Analyzer 1 Occupied BW Frequency • ٥ ٥ Frequency v KEYSIGHT Input RF Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Atten: 30 dB Settings 5.270000000 GHz 5.885000000 GH Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm 30.000 MHz 60.000 MHz Ref Lvi Offset 12.20 dB Scale/Div 10.0 dB Scale/Div 10.0 dB Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz Span 30 MHz Sweep 2.93 ms (1001 pts) 2 Metrics Occupied Bandwidth 17.718 MHz Occupied Bandwidth 36,000 MHz % of OBW Power mit Freq Error 99.00 % -6.00 dB % of OBW Power x dB 99.00 % -26.00 dB ■ ? Sep 16, 2024 ● .# 🕦 H X 1 5 C 2024 Sep 16, 2024 S.55:59 PM .:: 👺 🖽 💢 802.11n\_40MHz\_ChainA\_5190MHz 802.11n 40MHz ChainA 5310MHz Spectrum Analyzer 1 ٥ ٥ KEYSIGHT Input: RF KEYSIGHT Input: RF Freq Ref: Int (S) Freq Ref: Int (S) Span 60.000 MH 60.000 MHz Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm Ref Lvi Offset 12.20 dB Ref Value 20.00 dBm ile/Div 10.0 dE CF Step 6.000000 MHz 6.000000 MHz Auto Man Auto Man Freq Offse Freq Offset 0 Hz Center 5.19000 GHz #Res BW 430.00 kHz #Video BW 1.5000 MHz nter 5.31000 GH: #Video BW 1.5000 MHz #Res BW 430.00 kHz Sweep 1.00 ms (1001 pts Metrics Occupied Bandwidth 36.031 MHz Occupied Bandwidth 36.122 MHz Total Power 16.4 dBm Total Power 15.8 dBm Transmit Freq Error x dB Bandwirth Transmit Freq Error x dB Bandwidth % of OBW Power x dB 99.00 % -26.00 dB % of OBW Power x dB

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