

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: HTC Corporation
No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei
City 231, Taiwan

Manufacturer: HTC Corporation
No. 88, Section 3, Zhongxing Rd. Xindian Dist., New Taipei
City 231, Taiwan

Product Name: Headset

Brand Name: VIVE

Model No.: 2QBB100

Model Difference: N/A

Report Number: TERF2207001117E2

FCC ID NM82QBB100

Date of EUT Received: Jul. 19, 2022

Date of Test: Jul. 29, 2022~Nov. 25, 2022

Issue Date: Dec. 02, 2022

Approved By _____

Vito Pei

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2207001117E2	00	Original.	Nov. 16, 2022	Yi-Shan Tsai	
TERF2207001117E2	01	Update data	Nov. 25, 2022	Yi-Shan Tsai	*
TERF2207001117E2	02	Add CBP data	Nov. 30, 2022	Yi-Shan Tsai	*
TERF2207001117E2	03	Delete Dual Client section	Dec. 02, 2022	Yi-Shan Tsai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Headset
Brand Name:	VIVE
Model No.:	2QBB100
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE-2207000102P M1 E2 (Conducted) TE_SP_20220905591 (Conduction 、Radiated)
Power Supply:	Battery Cradle 5V 3A, 9V 1.57A, 12V 1.5A
Test Software (Name/Version)	QRCT V4.0.00163.0 / QSPR V5.0.00188 (Conducted) adb tool / V6.1 & QRCT / V4.0 & QSPR / V5.0 (Conduction 、Radiated)

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM , 1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
802.11 ax_160MHz: up to 2402 Mbps	

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain(dBi)
Dipole	5925~6425	2.18	4.86
	6425~6525	-0.41	3.51
	6525~6875	-0.41	3.51
	6875~7125	-0.47	3.85
Dipole	5925~6425	1.50	4.86
	6425~6525	1.32	3.51
	6525~6875	1.32	3.51
	6875~7125	1.97	3.85

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.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi}$$

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1.4 Rated Power

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	11.36 dBm
	6435~6515	5	9.37 dBm
	6535~6875	18	9.45 dBm
	6895~7115	12	12.11 dBm
ax_HE 40MHz	5965~6405	12	13.32 dBm
	6445~6525	3	12.46 dBm
	6565~6845	8	13.06 dBm
	6885~7085	6	13.29 dBm
ax_HE 80MHz	5985~6385	6	16.25 dBm
	6465	1	15.47 dBm
	6545~6865	5	16.25 dBm
	6945~7025	2	15.69 dBm
ax_HE 160MHz	6025~6345	3	16.11 dBm
	6505	1	16.06 dBm
	6665~6825	2	16.28 dBm
	6985	1	16.25 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	TW3702
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		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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SGS Taiwan Ltd. No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

2 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.

2.2 EUT Exercise

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.

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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2.4 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.

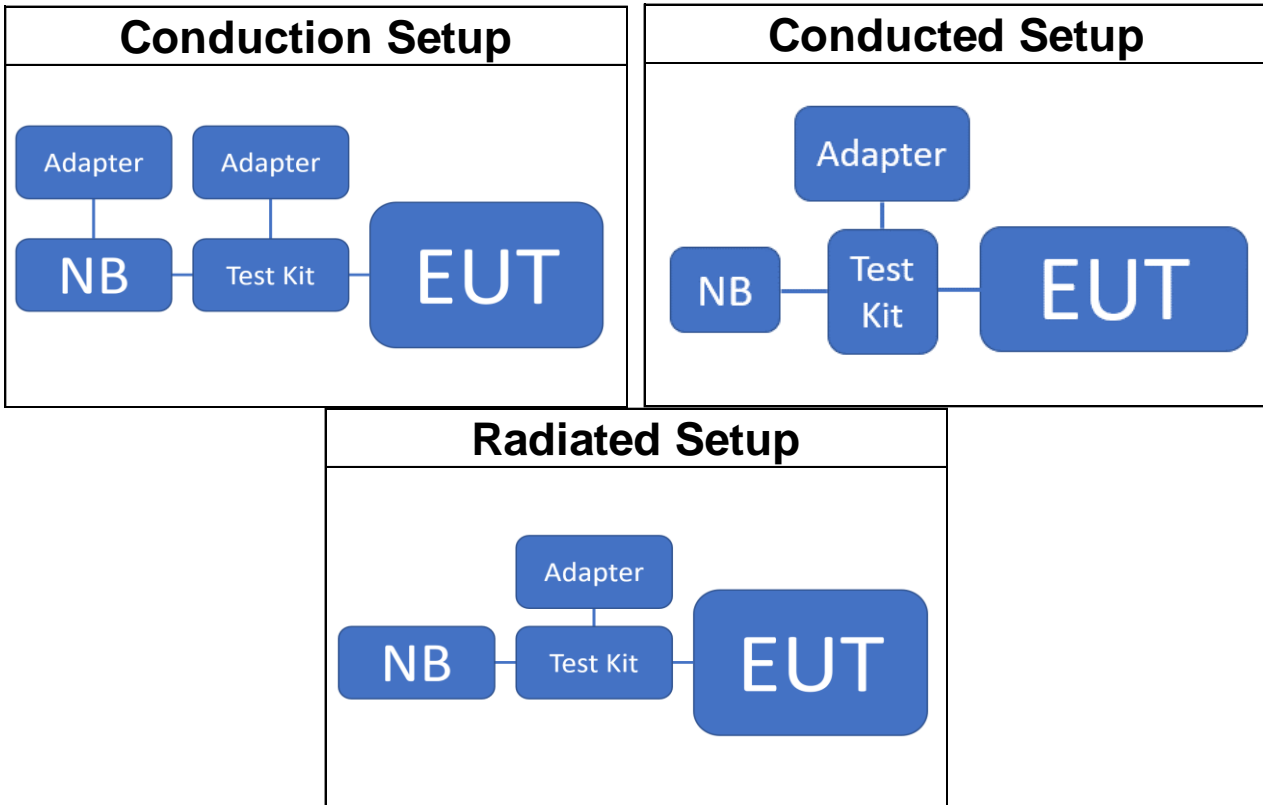
2.4.2 For all conducted test items:

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 level.

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2.5 Test Configuration



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2.6 Control Unit(s)

2.6.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Adapter	Lenovo	ADLX90NLC3A	N/A	N/A	N/A
1.2M C-to-C cable	VIVE	C807M3A03E1M2	N/A	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A

2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A
Notebook	Lenovo	T420	S0012599	N/A	N/A

2.6.3 Radiated Setup

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440p	P0000665	N/A	N/A
USB Cable	Hawk	CAD150	N/A	N/A	N/A
PD adapter	HTC	TC PD30W-WW	N/A	N/A	N/A
Test kit	VIVE	2QBB100-TB	N/A	N/A	N/A

2.6.4 CBP Setup

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A
Notebook	Lenovo	L430	P0000195	N/A	N/A
AP	ASUS	GT-AXE11000	M31AJF201730 FCC ID : MSQ-RTAXJF00	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(a)(10) §2.1049	Emission Bandwidth	Compliant
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant
§15.407(a)(4~8)	Power Spectral Density	Compliant
§15.407(b)(6)	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant
§15.407(d)(6)	contention-based protocol	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz							
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025	97	6435	99	6445	103	6465	111	6505
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485				
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	115	6525				
13	6015	61	6255	27	6085	55	6225			109	6495						
17	6035	65	6275	35	6125	71	6305			113	6515						
21	6055	69	6295	43	6165	87	6385										
25	6075	73	6315	51	6205												
29	6095	77	6335	59	6245												
33	6115	81	6355	67	6285												
37	6135	85	6375	75	6325												
41	6155	89	6395	83	6365												
45	6175	93	6415	91	6405												

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz							
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945	207	6985
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025		
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965				
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005				
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045				
137	6635	173	6815	163	6765					209	6995	227	7085				
141	6655	177	6835	171	6805					213	7015						
145	6675	181	6855	179	6845					217	7035						
149	6695	185	6875							221	7055						
										225	7075						
										229	7095						
										233	7115						

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4.2 The Worst Test Modes and Channel Details

1. 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 gevin UE is pre-scanned among below modes.

Modulation		Transmission Chain						Single Transmission Spatial	Multiple Transmission Spatial		
	802.11 a		Ch0		Ch1		Ch2		Ch3	1TX	2TX
	802.11 n		Ch0		Ch1		Ch2		Ch3	SISO	2TX
	802.11 ac		Ch0		Ch1		Ch2		Ch3	SISO	2TX
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3	SISO	v 2TX

4. 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.

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE160	6025~6345	15 to 79	47	OFDMA	MCS0	2TX
	6505	111	111			
	6665~6825	143 to 175	143			
	6985	207	207			

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RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.57	dB
			9kHz~30MHz
	+/-	4.85	dB
			30MHz - 1000MHz
Polarization: Horizontal	+/-	4.45	dB
			1GHz - 18GHz
	+/-	4.24	dB
			18GHz - 40GHz
Polarization: Horizontal	+/-	2.57	dB
			9kHz~30MHz
	+/-	4.37	dB
			30MHz - 1000MHz
Polarization: Horizontal	+/-	4.45	dB
			1GHz - 18GHz
Polarization: Horizontal	+/-	4.24	dB
			18GHz - 40GHz

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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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/13/2022	04/12/2023
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2022	03/26/2023
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2022	03/26/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/16/2022	05/15/2023
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023
Attenuator	Marvelous	WATT-218FS-10	RF16	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF23	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Generator	KEYSIGHT	N5182B	MY59100873	03/01/2022	02/28/2023
Frequency Extender	Keysight	N5182BX07	MY59360223	03/01/2022	02/28/2023
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/26/2022	01/25/2023
Attenuator	KEYSIGHT	8496B	TH60075263	06/22/2022	06/21/2023
Attenuator	KEYSIGHT	8494B	TH60075458	06/22/2022	06/21/2023
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Power Divider Splitter	Titan	T0510E2W118Q	22015159	03/30/2022	03/29/2023
Power Divider Splitter	Titan	T0510E4W118Q	22015175	03/30/2022	03/29/2023

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/22/2022	08/21/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/31/2022	05/30/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/14/2022	05/13/2023
3m Site NSA	SGS	966 chamber D	N/A	04/30/2022	04/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/24/2022	03/23/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022

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

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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 MHz	Limits (dBuV)	
	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

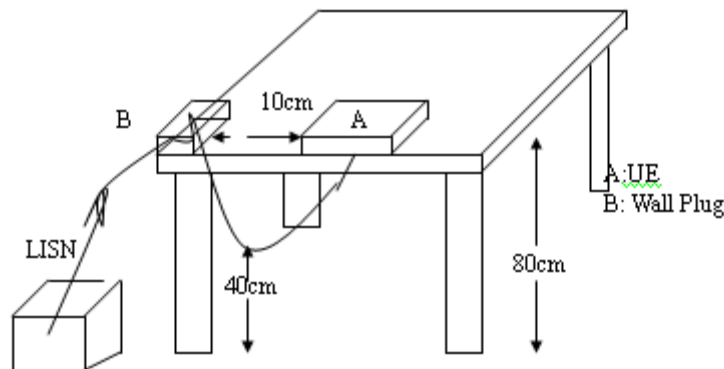
Note

- 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 rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



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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.

7.5 Measurement Result

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

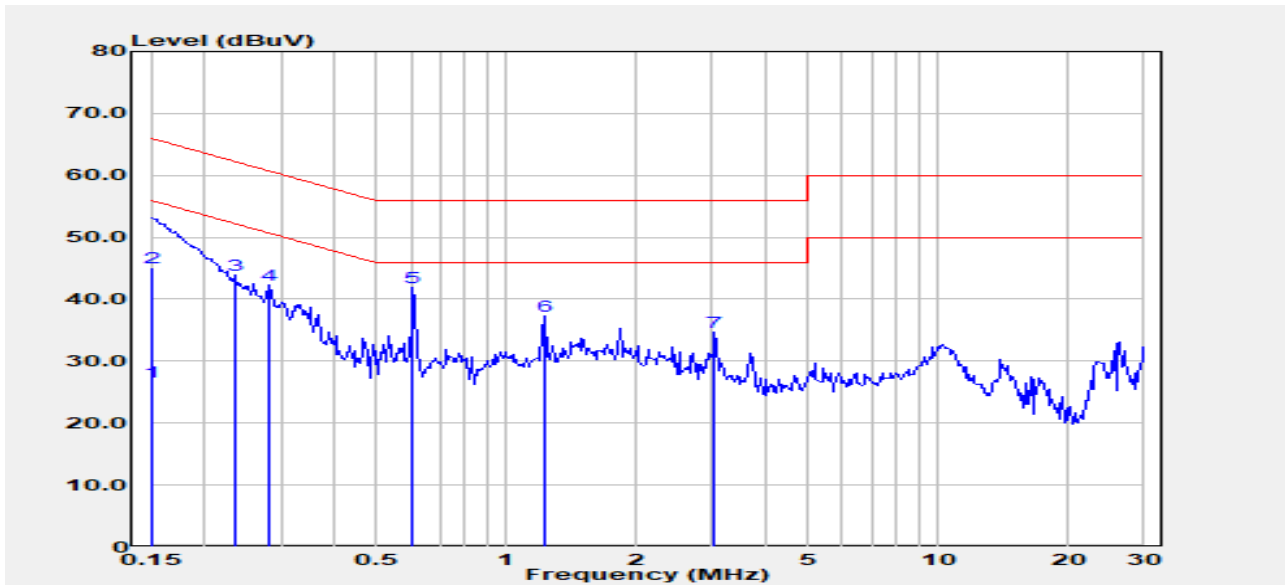
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2207001117E2	Test Site	:Conduction C
Test Mode	:802.11ax20	Test Date	:2022-09-28
Power	:120V/60Hz	Temp./Humi.	:24.7/54
Probe	:L1	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	Average	16.40	10.30	26.70	55.91	-29.21
0.152	QP	34.80	10.30	45.10	65.91	-20.81
0.234	Peak	33.52	10.30	43.82	62.30	-18.48
0.280	Peak	32.07	10.30	42.37	60.81	-18.43
0.608	Peak	31.49	10.32	41.81	56.00	-14.19
1.223	Peak	26.62	10.58	37.21	56.00	-18.79
3.041	Peak	23.80	10.88	34.67	56.00	-21.33

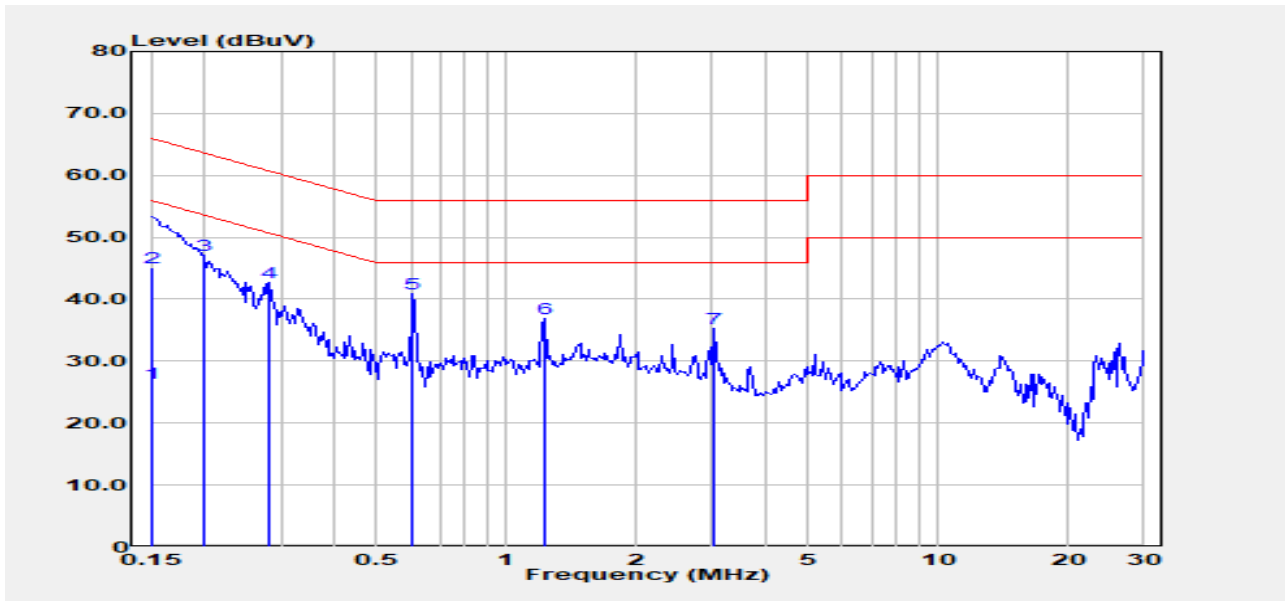
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Report Number :TERF2207001117E2
 Test Mode :802.11ax20
 Power :120V/60Hz
 Probe :N

Test Site :Conduction C
 Test Date :2022-09-28
 Temp./Humi. :24.7/54
 Engineer :Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Average	16.20	10.31	26.51	55.91	-29.40
0.152	QP	34.80	10.31	45.11	65.91	-20.80
0.200	Peak	36.89	10.30	47.19	63.62	-16.43
0.283	Peak	32.45	10.31	42.76	60.72	-17.96
0.608	Peak	30.52	10.33	40.85	56.00	-15.15
1.223	Peak	26.32	10.59	36.91	56.00	-19.09
3.041	Peak	24.32	10.89	35.21	56.00	-20.79

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8 EMISSION BANDWIDTH

8.1 Standard Applicable

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

8.2 Measurement Procedure

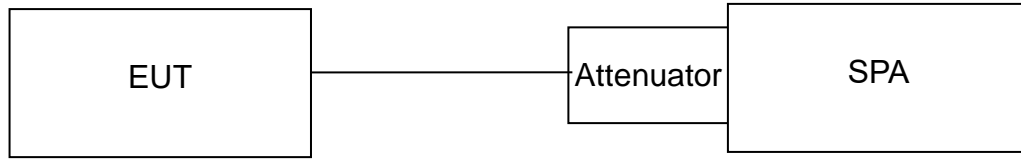
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: 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. For 99% Bandwidth: Set the spectrum analyzer as
RBW=1%,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Sample,
Sweep=auto.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.

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8.3 Test Setup



8.4 Measurement Result

8.4.1 FCC 26dB Bandwidth

802.11ax_20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	18.928	20.670
45	6175	18.947	20.820
93	129	18.955	20.450
97	6435	18.946	20.640
105	6475	18.897	20.450
113	6515	18.926	20.330
117	6535	18.919	20.400
149	6695	18.897	21.000
181	6855	18.903	20.860
185	6875(U-NII 7)	9.486	10.545
185	6875(U-NII 8)	9.486	10.545
189	6895	18.919	20.820
209	6995	18.886	20.510
233	7115	18.919	20.390

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802.11ax_20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	18.922	20.880
45	6175	18.933	20.730
93	6415	18.950	20.720
97	6435	18.939	20.770
105	6475	18.948	20.660
113	6515	18.969	20.860
117	6535	18.928	20.370
149	6695	18.965	20.610
181	6855	18.969	20.470
185	6875(U-NII 7)	9.461	10.350
185	6875(U-NII 8)	9.461	10.350
189	6895	18.917	20.770
209	6995	18.924	20.710
233	7115	18.917	20.780

802.11ax_40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.719	40.050
43	6165	37.730	40.160
91	6405	37.780	40.000
99	6445	37.722	39.950
107	6485	37.727	39.860
115	6525(U-NII 6)	18.895	20.255
115	6525(U-NII 7)	18.895	20.255
123	6565	37.728	40.200
147	6685	37.690	39.800
179	6845	37.645	39.970
187	6885(U-NII 7)	8.862	10.005
187	6885(U-NII 8)	28.862	30.005
195	6925	37.632	40.440
211	7005	37.753	40.240
227	7085	37.805	39.730

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802.11ax_40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.639	40.300
43	6165	37.849	40.170
91	6405	37.780	40.100
99	6445	37.717	39.930
107	6485	37.779	39.730
115	6525(U-NII 6)	18.888	19.960
115	6525(U-NII 7)	18.888	19.960
123	6565	37.718	39.920
147	6685	37.753	40.270
179	6845	37.780	39.970
187	6885(U-NII 7)	8.854	10.115
187	6885(U-NII 8)	28.854	30.115
195	6925	37.727	39.730
211	7005	37.793	40.240
227	7085	37.756	40.220

802.11ax_80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.127	80.820
39	6145	77.337	81.620
87	6385	77.275	81.920
103	6465	77.093	81.060
119	6545(U-NII 6)	18.491	20.455
119	6545(U-NII 7)	58.491	60.455
135	6625	77.131	80.850
151	6705	77.198	81.710
167	6785	77.179	80.900
183	6865(U-NII 7)	48.614	50.880
183	6865(U-NII 8)	28.614	30.880
199	6945	77.034	80.250
215	7025	77.050	81.350

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802.11ax _80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.060	80.810
39	6145	77.102	80.800
87	6385	77.192	81.360
103	6465	77.212	81.940
119	6545(U-NII 6)	18.539	20.805
119	6545(U-NII 7)	58.539	60.805
135	6625	77.183	81.100
151	6705	77.159	81.700
167	6785	77.255	80.600
183	6865(U-NII 7)	48.530	50.720
183	6865(U-NII 8)	28.530	30.720
199	6945	76.921	80.990
215	7025	77.072	80.930

802.11ax _160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	155.850	162.100
47	6185	155.800	164.500
79	6345	155.680	162.300
111	6505(U-NII 6)	98.021	101.805
111	6505(U-NII 7)	58.021	61.805
143	6665	156.440	163.500
175	6825(U-NII 7)	128.178	132.140
175	6825(U-NII 8)	28.178	32.140
207	6985	156.050	163.100

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802.11ax _160_Ch1

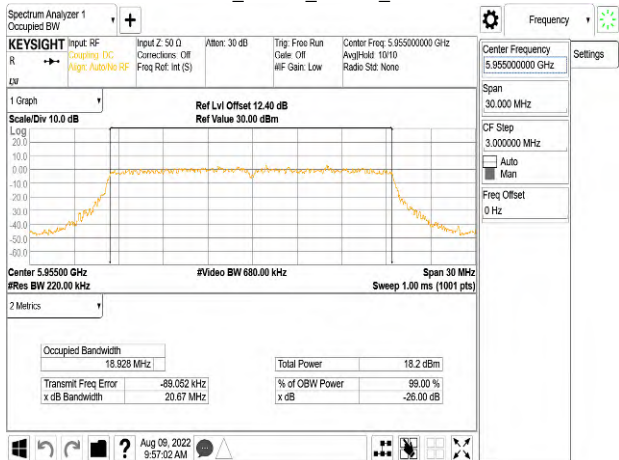
CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.090	162.800
47	6185	156.120	163.400
79	6345	156.060	163.800
111	6505(U-NII 6)	98.111	101.675
111	6505(U-NII 7)	58.111	61.675
143	6665	156.090	163.700
175	6825(U-NII 7)	128.179	131.830
175	6825(U-NII 8)	28.179	31.830
207	6985	156.070	163.600

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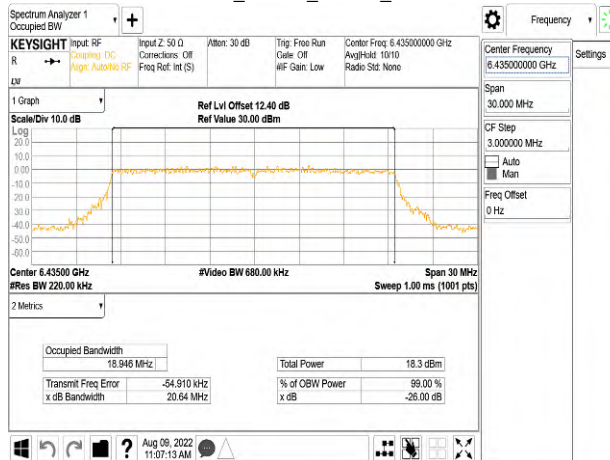
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802.11ax_20MHz_Chain0_5955MHz



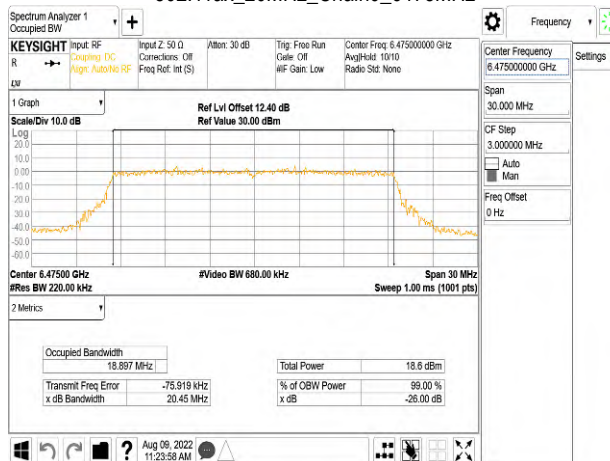
802.11ax_20MHz_Chain0_6435MHz



802.11ax_20MHz_Chain0_6175MHz



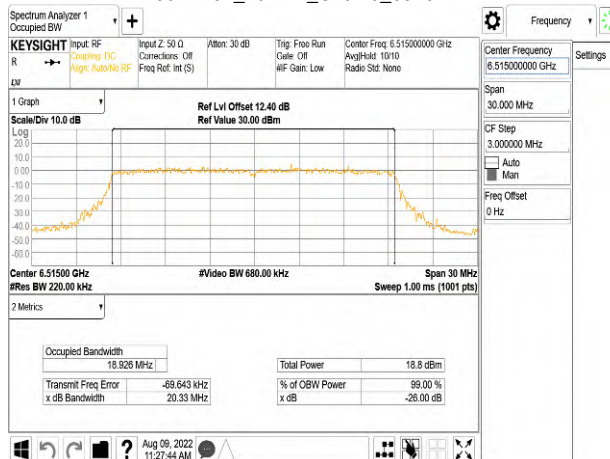
802.11ax_20MHz_Chain0_6475MHz



802.11ax_20MHz_Chain0_6415MHz



802.11ax_20MHz_Chain0_6515MHz

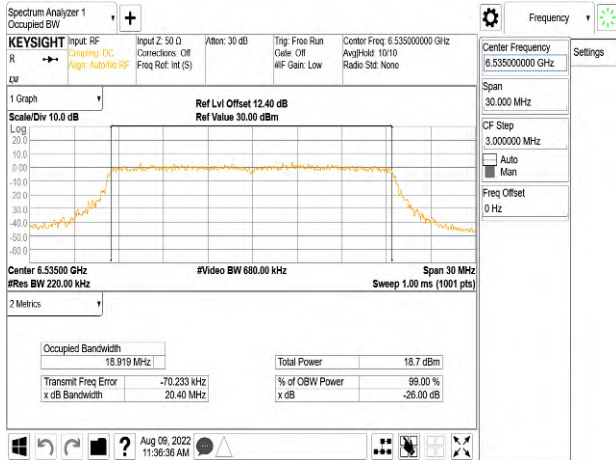


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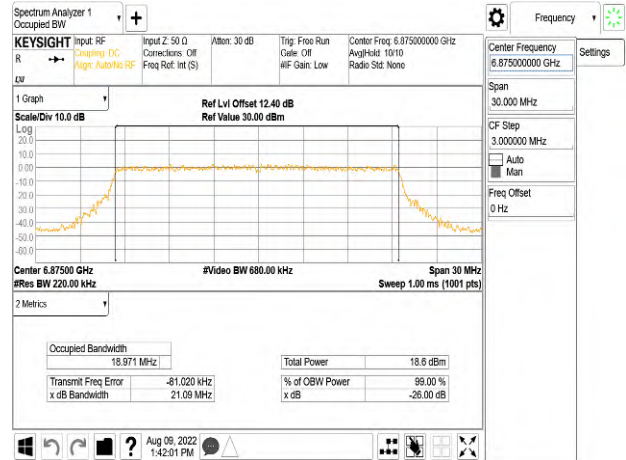
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802.11ax_20MHz_Chain0_6535MHz



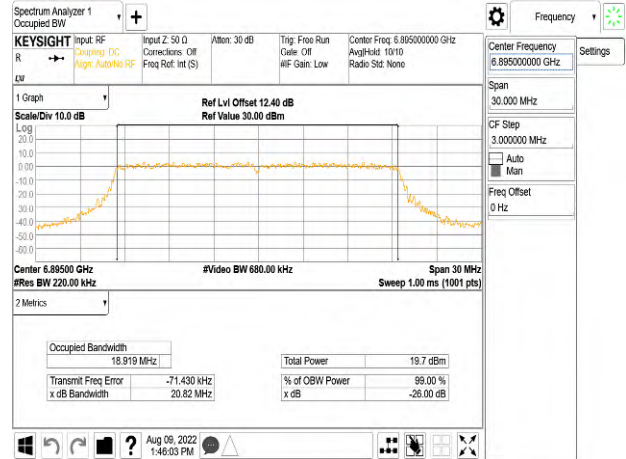
802.11ax_20MHz_Chain0_6875MHz



802.11ax_20MHz_Chain0_6695MHz



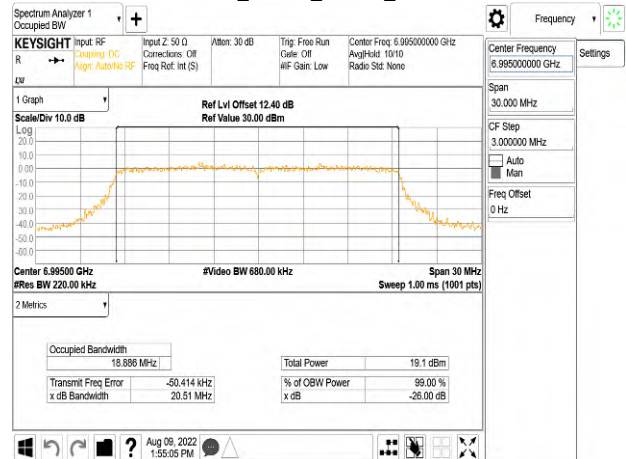
802.11ax_20MHz_Chain0_6895MHz



802.11ax_20MHz_Chain0_6855MHz



802.11ax_20MHz_Chain0_6995MHz

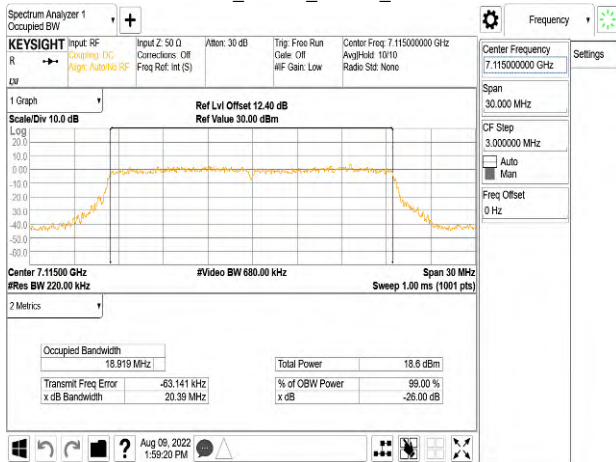


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802.11ax_20MHz_Chain0_7115MHz



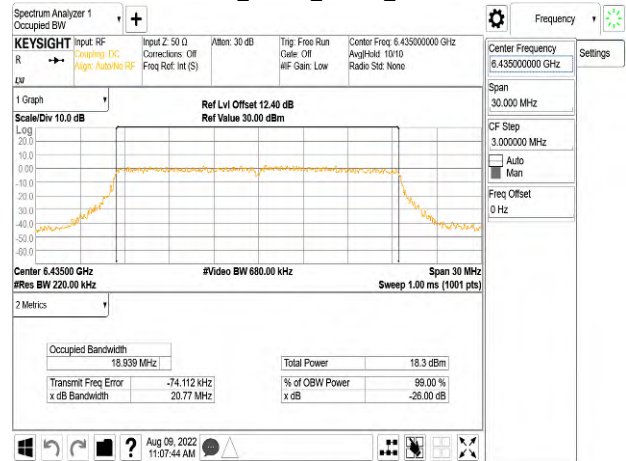
802.11ax_20MHz_Chain1_6415MHz



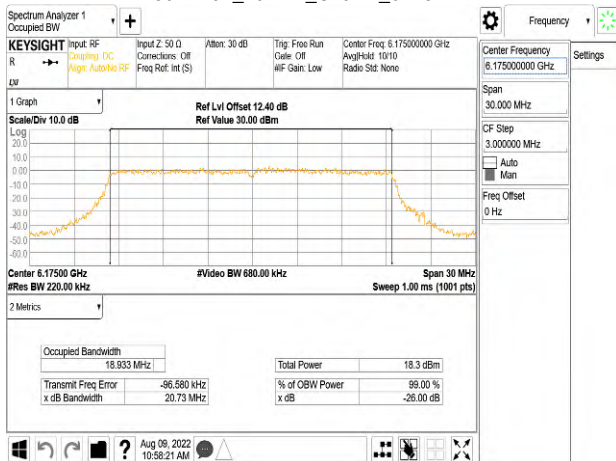
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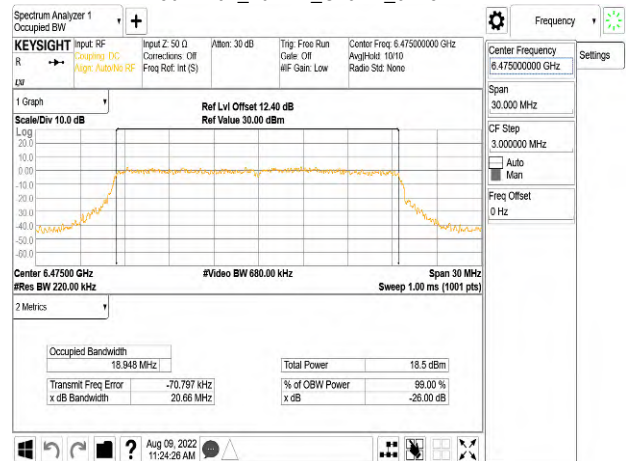
802.11ax_20MHz_Chain1_6435MHz



802.11ax_20MHz_Chain1_6175MHz



802.11ax_20MHz_Chain1_6475MHz

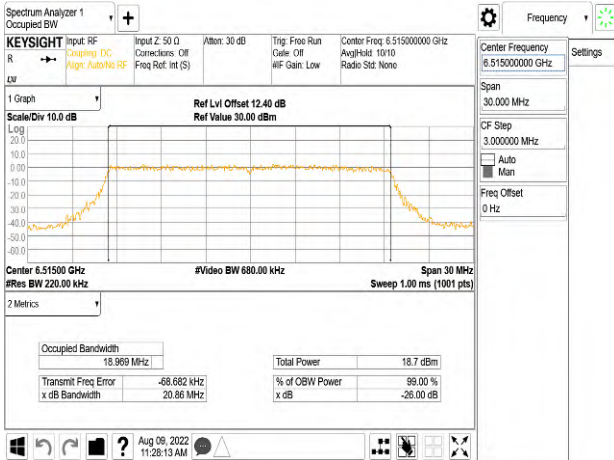


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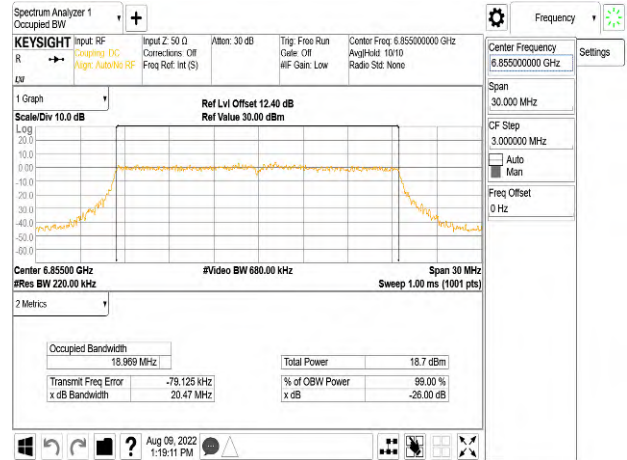
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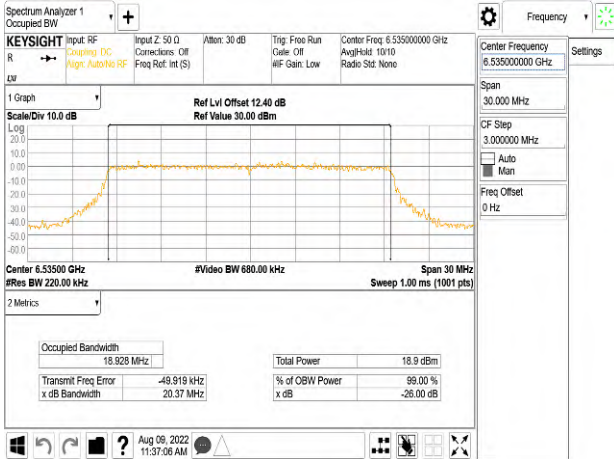
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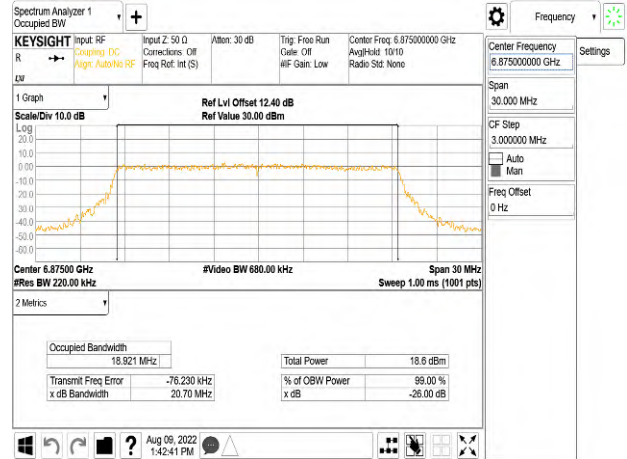
802.11ax_20MHz_Chain1_6855MHz



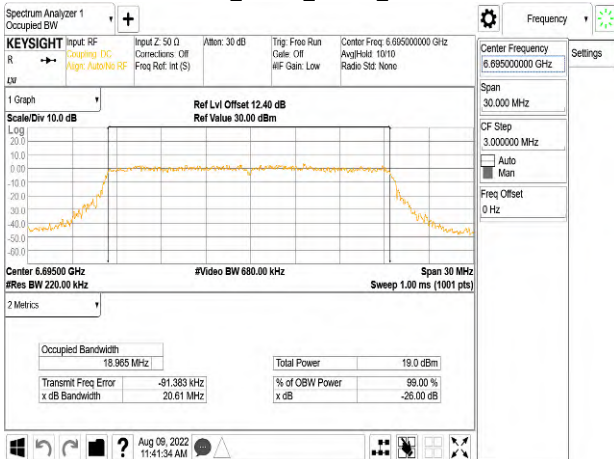
802.11ax_20MHz_Chain1_6535MHz



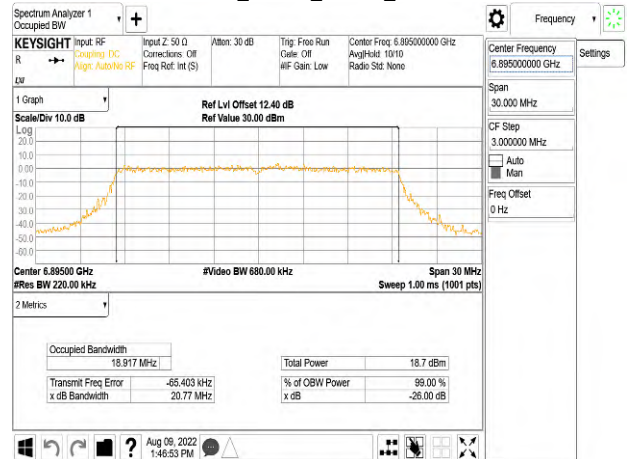
802.11ax_20MHz_Chain1_6875MHz



802.11ax_20MHz_Chain1_6695MHz



802.11ax_20MHz_Chain1_6895MHz

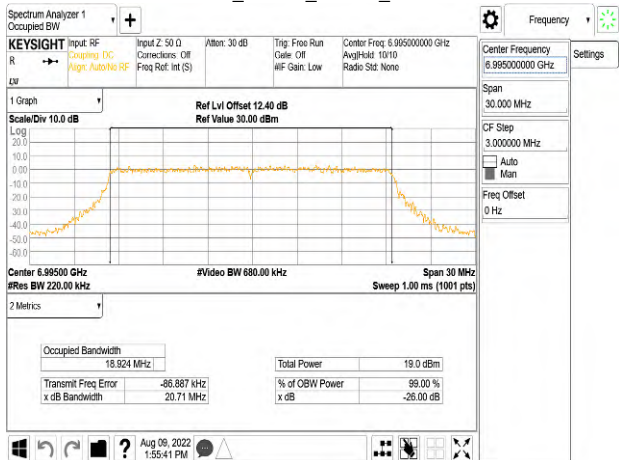


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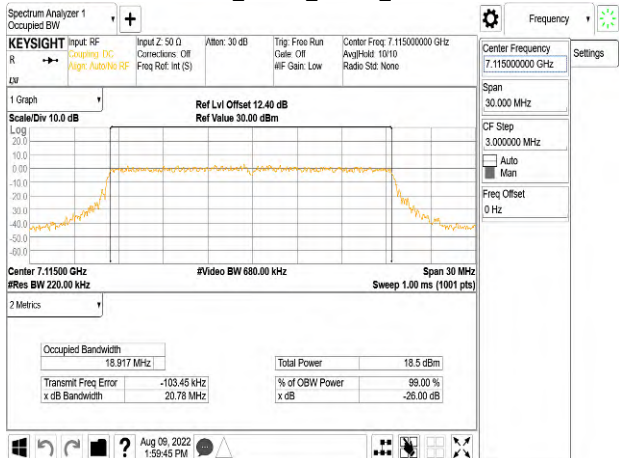
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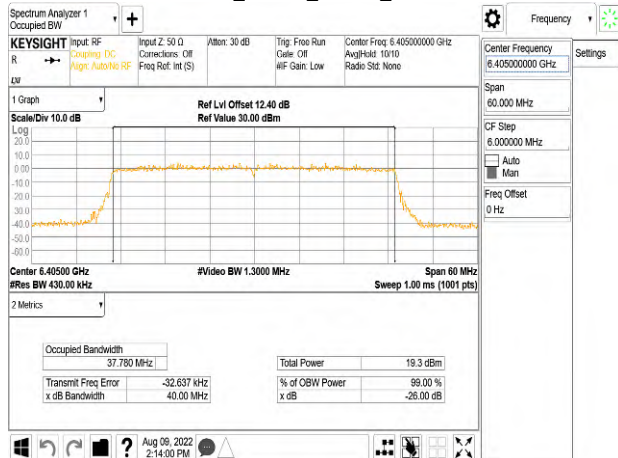
802.11ax_40MHz_Chain0_6165MHz



802.11ax_20MHz_Chain1_7115MHz



802.11ax_40MHz_Chain0_6405MHz



802.11ax_40MHz_Chain0_5965MHz



802.11ax_40MHz_Chain0_6445MHz

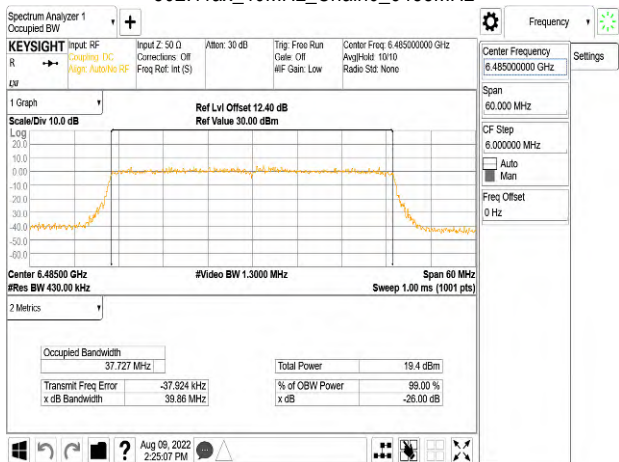


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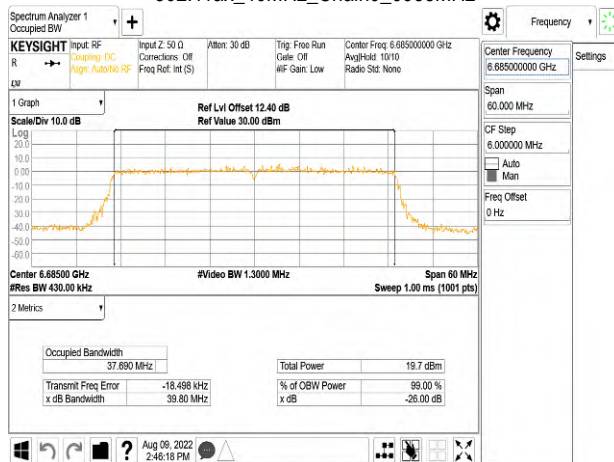
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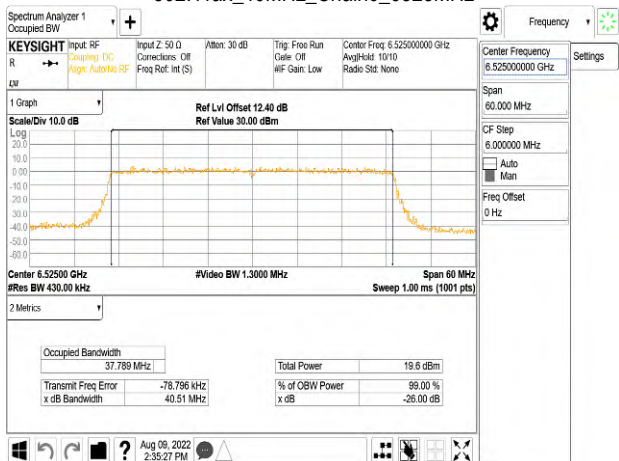
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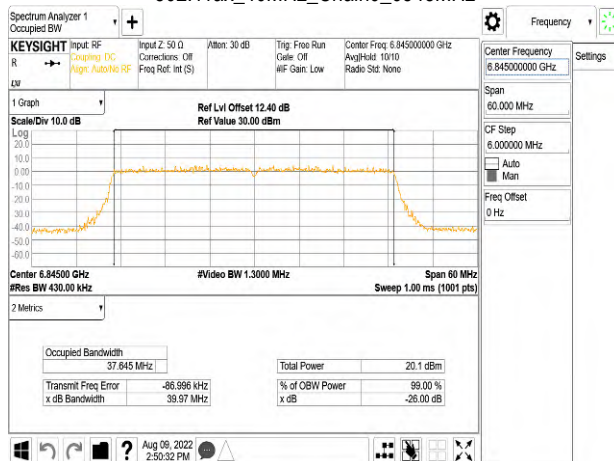
802.11ax_40MHz_Chain0_6685MHz



802.11ax_40MHz_Chain0_6525MHz



802.11ax_40MHz_Chain0_6845MHz



802.11ax_40MHz_Chain0_6565MHz



802.11ax_40MHz_Chain0_6885MHz



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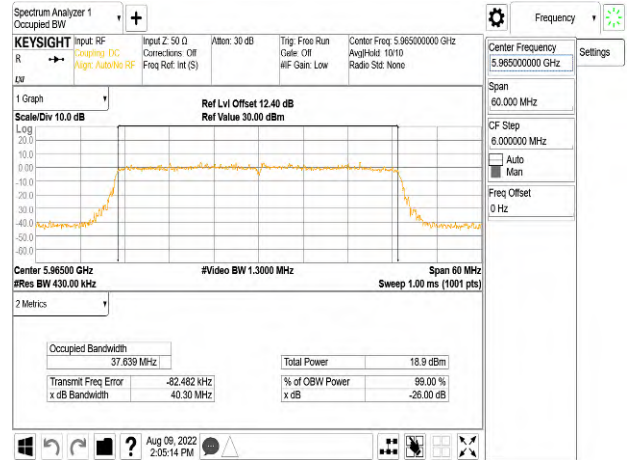
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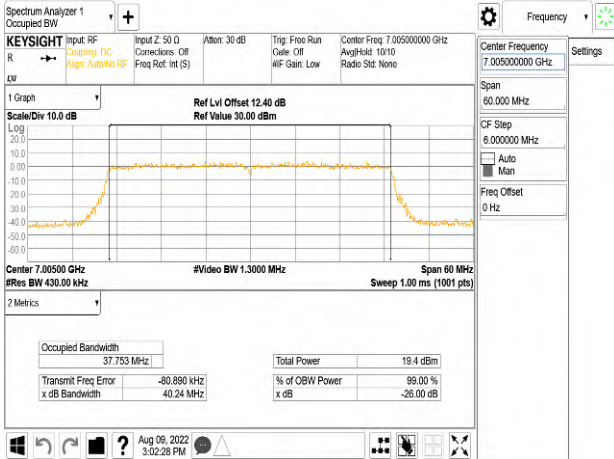
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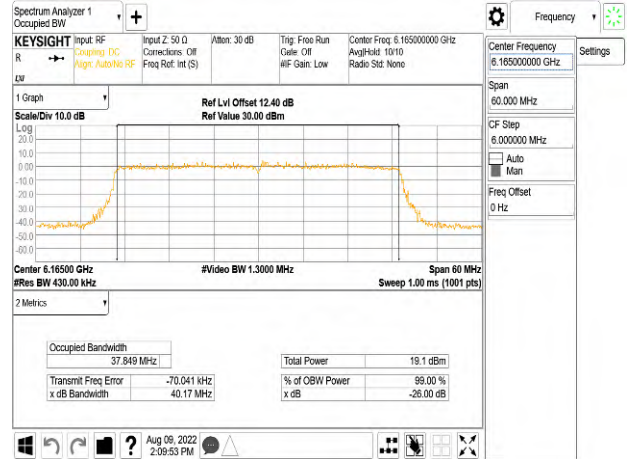
802.11ax_40MHz_Chain1_5965MHz



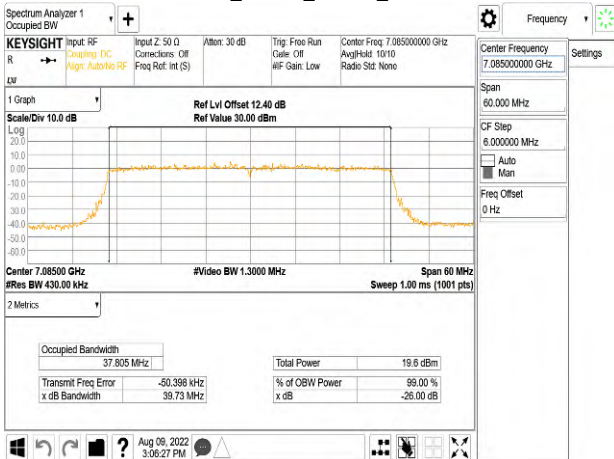
802.11ax_40MHz_Chain0_7005MHz



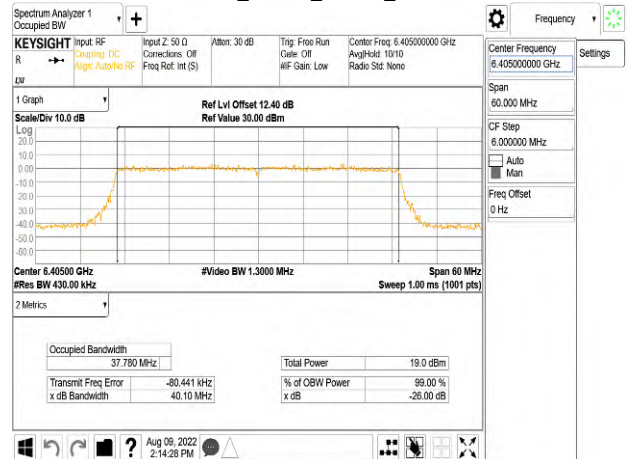
802.11ax_40MHz_Chain1_6165MHz



802.11ax_40MHz_Chain0_7085MHz



802.11ax_40MHz_Chain1_6405MHz



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802.11ax_40MHz_Chain1_6445MHz



802.11ax_40MHz_Chain1_6565MHz



802.11ax_40MHz_Chain1_6485MHz



802.11ax_40MHz_Chain1_6685MHz



802.11ax_40MHz_Chain1_6525MHz



802.11ax_40MHz_Chain1_6845MHz

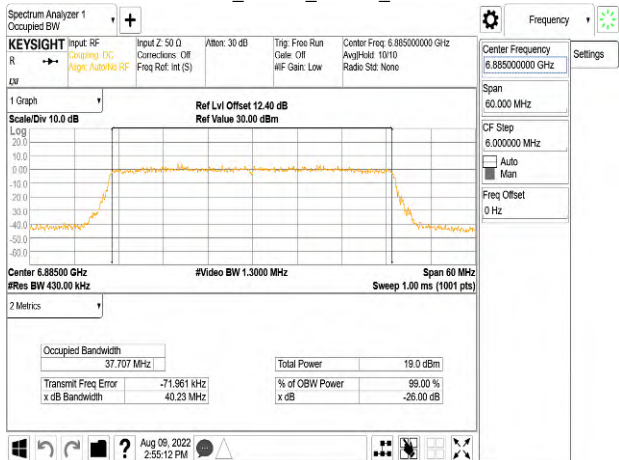


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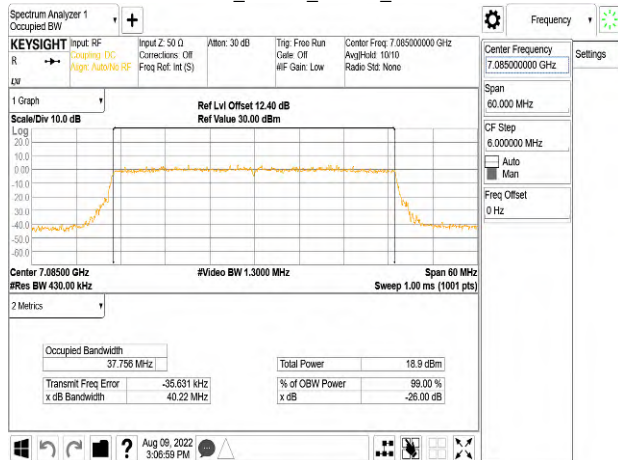
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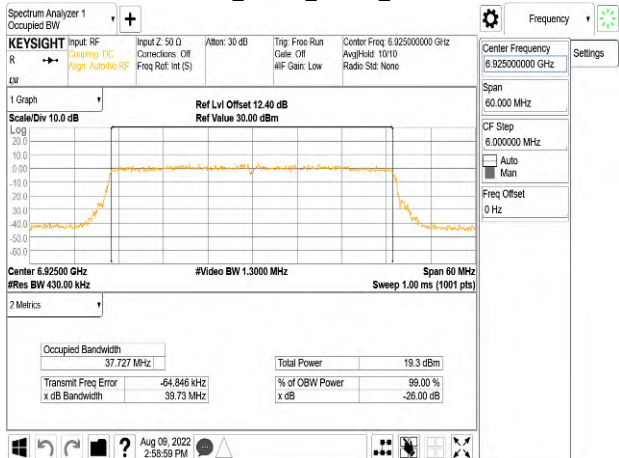
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802.11ax_40MHz_Chain1_7085MHz



802.11ax_40MHz_Chain1_6925MHz



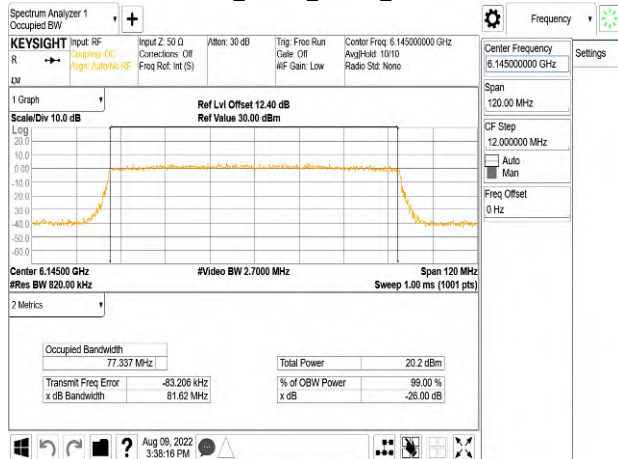
802.11ax_80MHz_Chain0_5985MHz



802.11ax_40MHz_Chain1_7005MHz



802.11ax_80MHz_Chain0_6145MHz

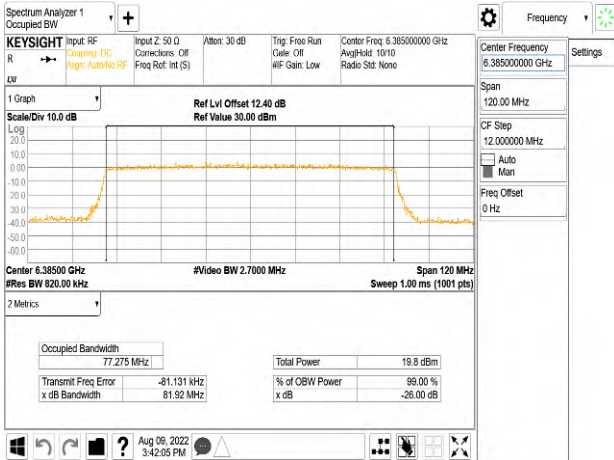


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802.11ax_80MHz_Chain0_6385MHz



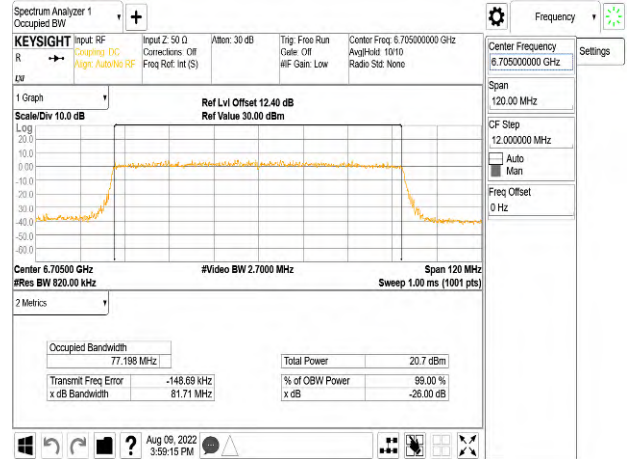
802.11ax_80MHz_Chain0_6625MHz



802.11ax_80MHz_Chain0_6465MHz



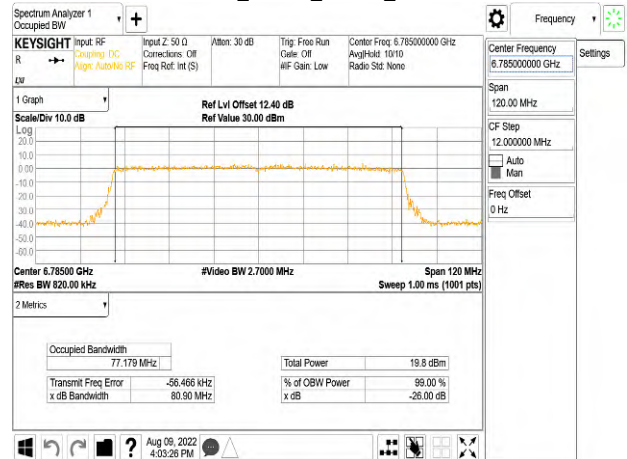
802.11ax_80MHz_Chain0_6705MHz



802.11ax_80MHz_Chain0_6545MHz



802.11ax_80MHz_Chain0_6785MHz



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802.11ax_80MHz_Chain0_6865MHz



802.11ax_80MHz_Chain1_5985MHz



802.11ax_80MHz_Chain0_6945MHz



802.11ax_80MHz_Chain1_6145MHz



802.11ax_80MHz_Chain0_7025MHz



802.11ax_80MHz_Chain1_6385MHz



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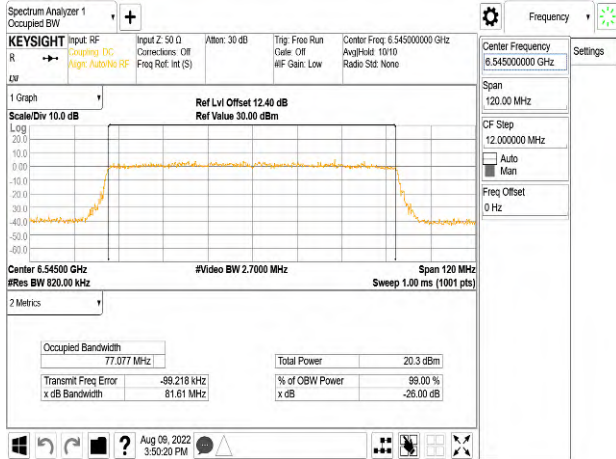
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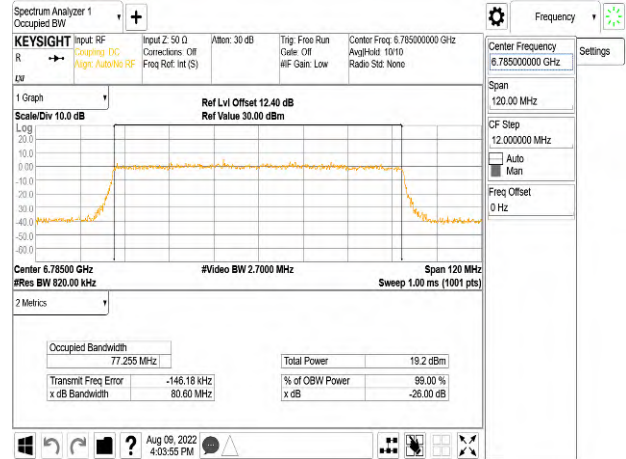
802.11ax_80MHz_Chain1_6705MHz



802.11ax_80MHz_Chain1_6545MHz



802.11ax_80MHz_Chain1_6785MHz



802.11ax_80MHz_Chain1_6625MHz



802.11ax_80MHz_Chain1_6865MHz

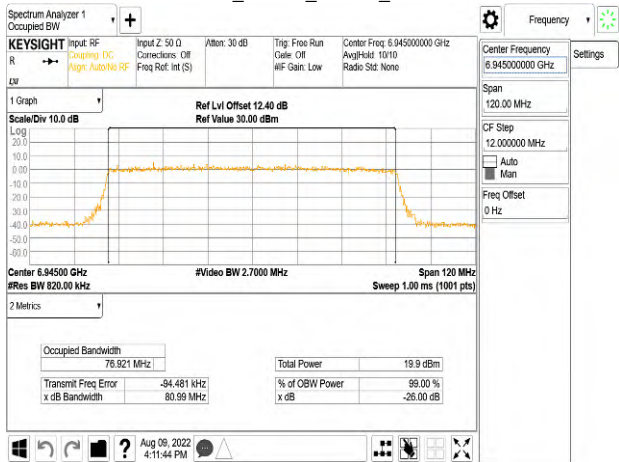


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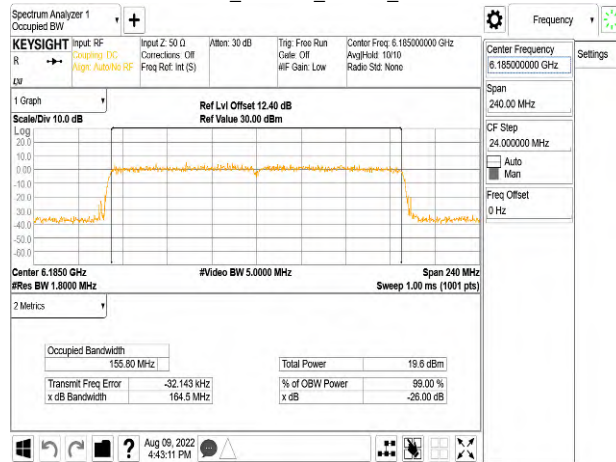
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802.11ax_80MHz_Chain1_6945MHz



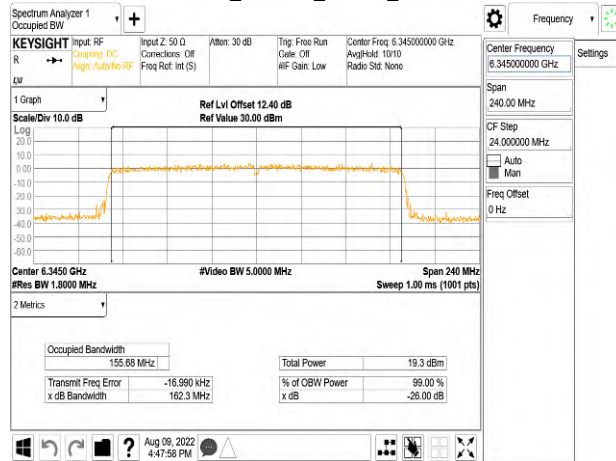
802.11ax_160MHz_Chain0_6185MHz



802.11ax_80MHz_Chain1_7025MHz



802.11ax_160MHz_Chain0_6345MHz



802.11ax_160MHz_Chain0_6025MHz



802.11ax_160MHz_Chain0_6505MHz

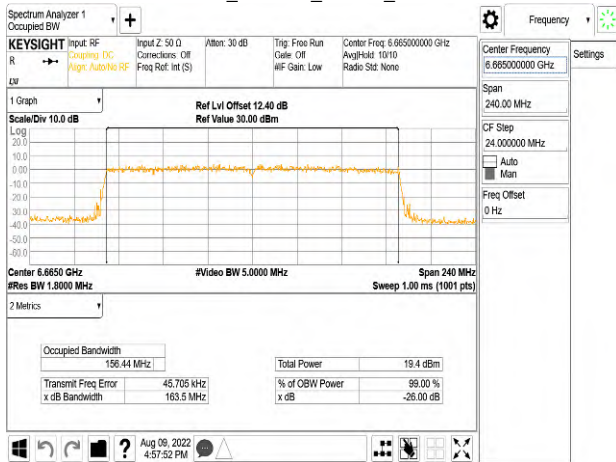


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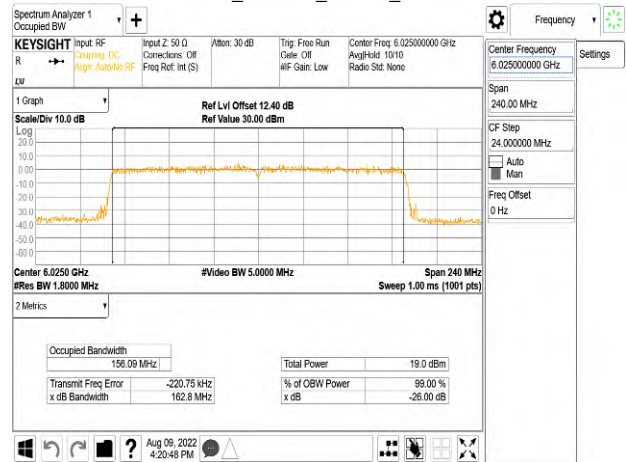
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802.11ax_160MHz_Chain0_6665MHz



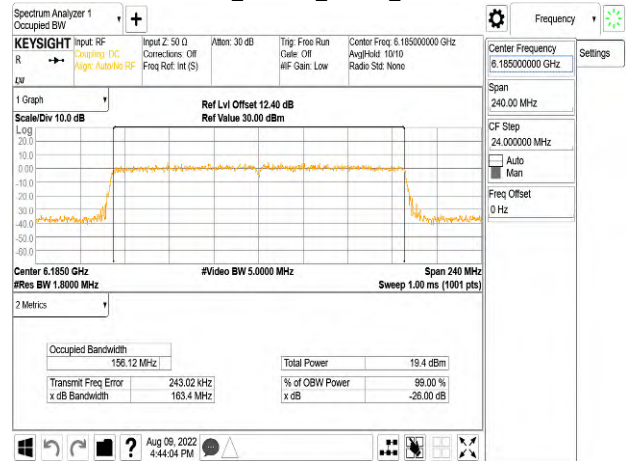
802.11ax_160MHz_Chain1_6025MHz



802.11ax_160MHz_Chain0_6825MHz



802.11ax_160MHz_Chain1_6185MHz



802.11ax_160MHz_Chain0_6985MHz



802.11ax_160MHz_Chain1_6345MHz



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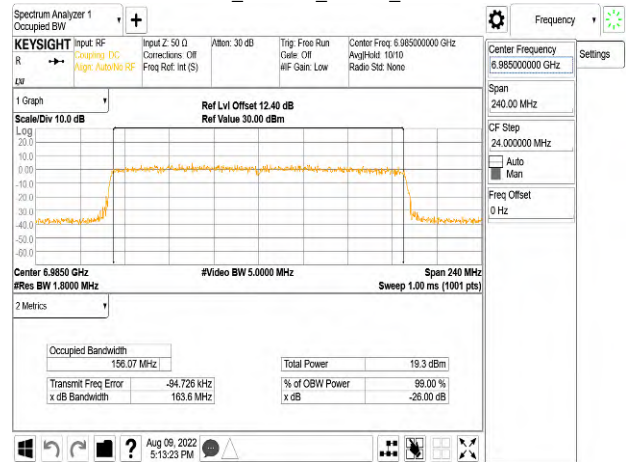
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802.11ax_160MHz_Chain1_6505MHz



802.11ax_160MHz_Chain1_6985MHz



802.11ax_160MHz_Chain1_6665MHz



802.11ax_160MHz_Chain1_6825MHz



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9 MAXIMUM OUTPUT POWER

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

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EUT CATEGORY		Equipment Class	§15.407(a)
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
	indoor Access Point	6ID	EIRP < 30dBm
	Subordinate Device	6PP	EIRP < 30dBm
	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
V	Indoor Client	6XD	EIRP < 24dBm
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power
	Dual Client	6CD	Compliance both indoor client and standard client limit

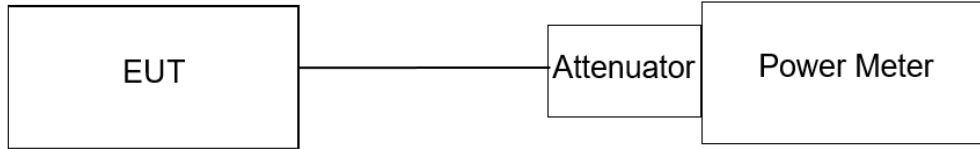
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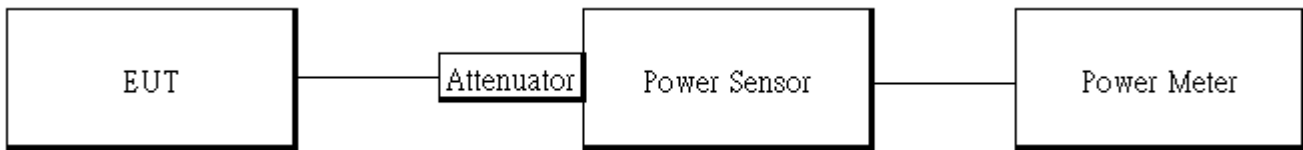
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \text{ DirectionalGain} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

9.3 Measurement Procedure

9.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

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9.3.2 Output Power

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 power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + $10 \log(N)$, where N is number of transmitting antenna, cable loss is specified below.

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9.4 Measurement Result

9.4.1 Conducted output power

802.11ax_20_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	2.36	2.18	4.540	24	PASS
		26/0	-6.39	2.18	-4.210	24	PASS
		52/37	-2.23	2.18	-0.050	24	PASS
		106/53	0.76	2.18	2.940	24	PASS
45	6175	full	3.40	2.18	5.580	24	PASS
93	6415	full	3.40	2.18	5.580	24	PASS
		26/8	-6.74	2.18	-4.560	24	PASS
		52/40	-2.19	2.18	-0.010	24	PASS
		106/54	-0.18	2.18	2.000	24	PASS
97	6435	full	2.76	-0.41	2.350	24	PASS
		26/0	-7.74	-0.41	-8.150	24	PASS
		52/37	-0.64	-0.41	-1.050	24	PASS
		106/53	-0.66	-0.41	-1.070	24	PASS
105	6475	full	2.24	-0.41	1.830	24	PASS
113	6515	full	2.32	-0.41	1.910	24	PASS
		26/8	-5.77	-0.41	-6.180	24	PASS
		52/40	-2.59	-0.41	-3.000	24	PASS
		106/54	0.28	-0.41	-0.130	24	PASS
117	6535	full	2.79	-0.41	2.380	24	PASS
		26/0	-4.24	-0.41	-4.650	24	PASS
		52/37	-0.68	-0.41	-1.090	24	PASS
		106/53	2.82	-0.41	2.410	24	PASS
149	6695	full	2.84	-0.41	2.430	24	PASS
181	6855	full	2.29	-0.41	1.880	24	PASS
		26/8	-3.74	-0.41	-4.150	24	PASS
		52/40	-2.23	-0.41	-2.640	24	PASS
		106/54	0.76	-0.41	0.350	24	PASS
185	6875(U-NII 7)	full	2.23	-0.41	1.820	24	PASS
185	6875(U-NII 8)	full	2.23	-0.47	1.760	24	PASS
189	6895	full	5.17	-0.47	4.700	24	PASS
		26/0	-4.09	-0.47	-4.560	24	PASS
		52/37	-1.59	-0.47	-2.060	24	PASS
		106/53	0.79	-0.47	0.320	24	PASS
209	6995	full	2.84	-0.47	2.370	24	PASS
233	7115	full	2.77	-0.47	2.300	24	PASS
		26/8	-11.47	-0.47	-11.940	24	PASS
		52/40	-7.74	-0.47	-8.210	24	PASS
		106/54	-0.64	-0.47	-1.110	24	PASS

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802.11ax_20_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
1	5955	full	2.27	1.5	3.770	24	PASS
		26/0	-6.51	1.5	-5.010	24	PASS
		52/37	-2.29	1.5	-0.790	24	PASS
		106/53	0.65	1.5	2.150	24	PASS
45	6175	full	3.30	1.5	4.800	24	PASS
93	6415	full	3.31	1.5	4.810	24	PASS
		26/8	-6.81	1.5	-5.310	24	PASS
		52/40	-2.25	1.5	-0.750	24	PASS
		106/54	-0.25	1.5	1.250	24	PASS
97	6435	full	2.66	1.32	3.980	24	PASS
		26/0	-7.81	1.32	-6.490	24	PASS
		52/37	-0.72	1.32	0.600	24	PASS
		106/53	-0.74	1.32	0.580	24	PASS
105	6475	full	2.14	1.32	3.460	24	PASS
113	6515	full	2.24	1.32	3.560	24	PASS
		26/8	-5.88	1.32	-4.560	24	PASS
		52/40	-2.71	1.32	-1.390	24	PASS
		106/54	0.21	1.32	1.530	24	PASS
117	6535	full	2.71	1.32	4.030	24	PASS
		26/0	-4.31	1.32	-2.990	24	PASS
		52/37	-0.73	1.32	0.590	24	PASS
		106/53	2.71	1.32	4.030	24	PASS
149	6695	full	2.77	1.32	4.090	24	PASS
181	6855	full	2.18	1.32	3.500	24	PASS
		26/8	-3.81	1.32	-2.490	24	PASS
		52/40	-2.34	1.32	-1.020	24	PASS
		106/54	0.64	1.32	1.960	24	PASS
185	6875(U-NII 7)	full	2.16	1.32	3.480	24	PASS
185	6875(U-NII 8)	full	2.16	1.97	4.130	24	PASS
189	6895	full	5.08	1.97	7.050	24	PASS
		26/0	-4.23	1.97	-2.260	24	PASS
		52/37	-1.67	1.97	0.300	24	PASS
		106/53	0.69	1.97	2.660	24	PASS
209	6995	full	2.77	1.97	4.740	24	PASS
233	7115	full	2.65	1.97	4.620	24	PASS
		26/8	-11.57	1.97	-9.600	24	PASS
		52/40	-7.85	1.97	-5.880	24	PASS
		106/54	-0.73	1.97	1.240	24	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	2.65	2.23	5.47	4.86	10.325	24	PASS
		26/0	-6.02	-6.55	-3.26	4.86	1.603	24	PASS
		52/37	-1.95	-2.32	0.89	4.86	5.749	24	PASS
		106/53	0.98	0.65	3.84	4.86	8.698	24	PASS
45	6175	full	3.68	3.27	6.50	4.86	11.360	24	PASS
93	6415	full	3.64	3.23	6.46	4.86	11.320	24	PASS
		26/8	-6.42	-6.85	-3.61	4.86	1.251	24	PASS
		52/40	-1.85	-2.35	0.93	4.86	5.787	24	PASS
		106/54	0.12	-0.32	2.93	4.86	7.786	24	PASS
97	6435	full	3.01	2.67	5.86	3.51	9.374	24	PASS
		26/0	-7.46	-7.93	-4.67	3.51	-1.158	24	PASS
		52/37	-0.41	-0.79	2.42	3.51	5.934	24	PASS
		106/53	-0.41	-0.78	2.43	3.51	5.939	24	PASS
105	6475	full	2.47	2.13	5.32	3.51	8.834	24	PASS
113	6515	full	2.55	2.18	5.39	3.51	8.899	24	PASS
		26/8	-5.57	-5.89	-2.71	3.51	0.803	24	PASS
		52/40	-2.31	-2.72	0.51	3.51	4.020	24	PASS
		106/54	0.45	0.21	3.35	3.51	6.862	24	PASS
117	6535	full	3.08	2.66	5.90	3.51	9.405	24	PASS
		26/0	-3.95	-4.42	-1.16	3.51	2.352	24	PASS
		52/37	-0.45	-0.81	2.39	3.51	5.904	24	PASS
		106/53	3.05	2.73	5.91	3.51	9.423	24	PASS
149	6695	full	3.13	2.69	5.94	3.51	9.446	24	PASS
181	6855	full	2.51	2.17	5.36	3.51	8.874	24	PASS
		26/8	-3.35	-3.95	-0.62	3.51	2.891	24	PASS
		52/40	-1.91	-2.34	0.90	3.51	4.411	24	PASS
		106/54	0.99	0.71	3.87	3.51	7.383	24	PASS
185	6875(U-NII 7)	full	2.4597	2.1197	5.30	3.51	8.813	24	PASS
185	6875(U-NII 8)	full	-0.5506	2.1197	4.00	3.85	7.847	24	PASS
189	6895	full	5.41	5.06	8.26	3.85	12.109	24	PASS
		26/0	-3.82	-4.28	-1.02	3.85	2.826	24	PASS
		52/37	-1.35	-1.78	1.46	3.85	5.311	24	PASS
		106/53	1.08	0.66	3.90	3.85	7.745	24	PASS
209	6995	full	3.12	2.75	5.96	3.85	9.809	24	PASS
233	7115	full	2.98	2.69	5.86	3.85	9.708	24	PASS
		26/8	-11.13	-11.64	-8.36	3.85	-4.507	24	PASS
		52/40	-7.45	-7.89	-4.64	3.85	-0.794	24	PASS
		106/54	-0.41	-0.75	2.44	3.85	6.294	24	PASS

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802.11ax_40_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	5.36	2.18	7.540	24	PASS
		242/61	2.04	2.18	4.220	24	PASS
43	6165	full	4.90	2.18	7.080	24	PASS
91	6405	full	4.79	2.18	6.970	24	PASS
		242/62	2.42	2.18	4.600	24	PASS
99	6445	full	5.88	-0.41	5.470	24	PASS
		242/61	2.03	-0.41	1.620	24	PASS
107	6485	full	5.81	-0.41	5.400	24	PASS
		242/62	2.43	-0.41	2.020	24	PASS
115	6525(U-NII 6)	full	5.81	-0.41	5.400	24	PASS
115	6525(U-NII 7)	full	5.81	-0.41	5.400	24	PASS
123	6565	full	6.25	-0.41	5.840	24	PASS
		242/61	2.40	-0.41	1.990	24	PASS
147	6685	full	6.47	-0.41	6.060	24	PASS
179	6845	full	3.30	-0.41	2.890	24	PASS
		242/62	2.91	-0.41	2.500	24	PASS
187	6885(U-NII 7)	full	0.95	-0.41	0.539	24	PASS
187	6885(U-NII 8)	full	6.08	-0.47	5.607	24	PASS
195	6925	full	6.36	-0.47	5.890	24	PASS
		242/61	3.37	-0.47	2.900	24	PASS
211	7005	full	5.87	-0.47	5.400	24	PASS
227	7085	full	5.81	-0.47	5.340	24	PASS
		242/62	4.36	-0.47	3.890	24	PASS

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802.11ax_40_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
3	5965	full	5.29	1.5	6.790	24	PASS
		242/61	1.96	1.5	3.460	24	PASS
43	6165	full	4.81	1.5	6.310	24	PASS
91	6405	full	4.73	1.5	6.230	24	PASS
		242/62	2.33	1.5	3.830	24	PASS
99	6445	full	5.79	1.32	7.110	24	PASS
		242/61	1.92	1.32	3.240	24	PASS
107	6485	full	5.69	1.32	7.010	24	PASS
		242/62	2.34	1.32	3.660	24	PASS
115	6525(U-NII 6)	full	5.73	1.32	7.050	24	PASS
115	6525(U-NII 7)	full	5.73	1.32	7.050	24	PASS
123	6565	full	6.15	1.32	7.470	24	PASS
		242/61	2.33	1.32	3.650	24	PASS
147	6685	full	6.36	1.32	7.680	24	PASS
179	6845	full	3.23	1.32	4.550	24	PASS
		242/62	2.81	1.32	4.130	24	PASS
187	6885(U-NII 7)	full	0.87	1.32	2.187	24	PASS
187	6885(U-NII 8)	full	6.00	1.97	7.968	24	PASS
195	6925	full	6.30	1.97	8.270	24	PASS
		242/61	3.27	1.97	5.240	24	PASS
211	7005	full	5.81	1.97	7.780	24	PASS
227	7085	full	5.74	1.97	7.710	24	PASS
		242/62	4.28	1.97	6.250	24	PASS

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802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	5.61	5.270	8.46	4.86	13.324	24	PASS
		242/61	2.28	1.910	5.12	4.86	9.979	24	PASS
43	6165	full	5.18	4.720	7.98	4.86	12.836	24	PASS
91	6405	full	5.09	4.660	7.90	4.86	12.761	24	PASS
		242/62	2.72	2.360	5.56	4.86	10.424	24	PASS
99	6445	full	6.11	5.750	8.95	3.51	12.464	24	PASS
		242/61	2.25	1.870	5.08	3.51	8.594	24	PASS
107	6485	full	5.97	5.720	8.87	3.51	12.377	24	PASS
		242/62	2.70	2.340	5.54	3.51	9.054	24	PASS
115	6525(U-NII 6)	full	6.04	5.710	8.89	3.51	12.398	24	PASS
115	6525(U-NII 7)	full	3.03	5.710	7.58	3.51	11.093	24	PASS
123	6565	full	6.45	6.200	9.35	3.51	12.857	24	PASS
		242/61	2.66	2.280	5.49	3.51	9.004	24	PASS
147	6685	full	6.62	6.430	9.55	3.51	13.056	24	PASS
179	6845	full	3.56	3.250	6.43	3.51	9.938	24	PASS
		242/62	3.11	2.780	5.97	3.51	9.478	24	PASS
187	6885(U-NII 7)	full	1.22	0.817	4.03	3.51	7.543	24	PASS
187	6885(U-NII 8)	full	0.06	5.948	6.94	3.85	10.793	24	PASS
195	6925	full	6.67	6.150	9.44	3.85	13.288	24	PASS
		242/61	3.58	3.240	6.43	3.85	10.284	24	PASS
211	7005	full	6.08	5.760	8.94	3.85	12.793	24	PASS
227	7085	full	6.02	5.710	8.89	3.85	12.738	24	PASS
		242/62	4.55	4.260	7.43	3.85	11.278	24	PASS

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802.11ax_80_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.30	2.18	10.480	24	PASS
		484/65	4.22	2.18	6.400	24	PASS
39	6145	full	7.84	2.18	10.020	24	PASS
87	6385	full	7.99	2.18	10.170	24	PASS
		484/66	5.26	2.18	7.440	24	PASS
103	6465	full	8.85	-0.41	8.440	24	PASS
		484/65	5.37	-0.41	4.960	24	PASS
		484/66	5.27	-0.41	4.860	24	PASS
119	6545(U-NII 6)	full	3.57	-0.41	3.156	24	PASS
119	6545(U-NII 7)	full	8.57	-0.41	8.157	24	PASS
135	6625	full	8.70	-0.41	8.290	24	PASS
		484/65	6.32	-0.41	5.910	24	PASS
151	6705	full	9.36	-0.41	8.950	24	PASS
167	6785	full	9.62	-0.41	9.210	24	PASS
		484/66	6.36	-0.41	5.950	24	PASS
183	6865(U-NII 7)	full	9.25	-0.41	8.840	24	PASS
183	6865(U-NII 8)	full	6.95	-0.47	6.478	24	PASS
199	6945	full	8.73	-0.47	8.260	24	PASS
		484/65	6.28	-0.47	5.810	24	PASS
215	7025	full	8.69	-0.47	8.220	24	PASS
		484/66	6.83	-0.47	6.360	24	PASS

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802.11ax_80_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
7	5985	full	8.19	1.5	9.690	24	PASS
		484/65	4.13	1.5	5.630	24	PASS
39	6145	full	7.76	1.5	9.260	24	PASS
87	6385	full	7.89	1.5	9.390	24	PASS
		484/66	5.19	1.5	6.690	24	PASS
103	6465	full	8.76	1.32	10.080	24	PASS
		484/65	5.30	1.32	6.620	24	PASS
		484/66	5.19	1.32	6.510	24	PASS
119	6545(U-NII 6)	full	3.46	1.32	4.781	24	PASS
119	6545(U-NII 7)	full	8.46	1.32	9.775	24	PASS
135	6625	full	8.63	1.32	9.950	24	PASS
		484/65	6.20	1.32	7.520	24	PASS
151	6705	full	9.28	1.32	10.600	24	PASS
167	6785	full	9.53	1.32	10.850	24	PASS
		484/66	6.27	1.32	7.590	24	PASS
183	6865(U-NII 7)	full	9.15	1.32	10.472	24	PASS
183	6865(U-NII 8)	full	6.84	1.97	8.815	24	PASS
199	6945	full	8.67	1.97	10.640	24	PASS
		484/65	6.17	1.97	8.140	24	PASS
215	7025	full	8.56	1.97	10.530	24	PASS
		484/66	6.74	1.97	8.710	24	PASS

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802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	8.55	8.18	11.39	4.86	16.249	24	PASS
		484/65	4.52	4.15	7.36	4.86	12.219	24	PASS
39	6145	full	8.11	7.67	10.92	4.86	15.776	24	PASS
87	6385	full	8.39	7.76	11.11	4.86	15.967	24	PASS
		484/66	5.56	5.17	8.39	4.86	13.250	24	PASS
103	6465	full	9.07	8.8	11.96	3.51	15.467	24	PASS
		484/65	5.61	5.22	8.44	3.51	11.950	24	PASS
		484/66	5.58	5.2	8.41	3.51	11.924	24	PASS
119	6545(U-NII 6)	full	3.755712	3.501498	6.64	3.51	10.151	24	PASS
119	6545(U-NII 7)	full	2.562711	8.495168	9.48	3.51	12.992	24	PASS
135	6625	full	8.87	8.6	11.76	3.51	15.267	24	PASS
		484/65	6.48	6.29	9.41	3.51	12.916	24	PASS
151	6705	full	9.61	9.22	12.44	3.51	15.950	24	PASS
167	6785	full	9.87	9.56	12.74	3.51	16.248	24	PASS
		484/66	6.51	6.32	9.44	3.51	12.946	24	PASS
183	6865(U-NII 7)	full	9.409866	9.161813	12.30	3.51	15.808	24	PASS
183	6865(U-NII 8)	full	5.097904	6.854728	9.07	3.85	12.925	24	PASS
199	6945	full	9.02	8.61	11.84	3.85	15.690	24	PASS
		484/65	6.53	6.22	9.40	3.85	13.248	24	PASS
215	7025	full	8.95	8.64	11.82	3.85	15.668	24	PASS
		484/66	7.15	6.65	9.93	3.85	13.777	24	PASS

802.11ax_160_Ch0

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	10.86	2.18	13.043	24	PASS
		996/67	7.33	2.18	9.513	24	PASS
47	6185	full	10.29	2.18	12.473	24	PASS
79	6345	full	10.30	2.18	12.483	24	PASS
		996/S67	6.80	2.18	8.983	24	PASS
111	6505(U-NII 6)	full	11.64	-0.41	11.234	24	PASS
111	6505(U-NII 7)	full	9.37	-0.41	8.956	24	PASS
143	6665	full	11.39	-0.41	10.983	24	PASS
		996/67	6.85	-0.41	6.443	24	PASS
		996/S67	7.36	-0.41	6.953	24	PASS
175	6825(U-NII 7)	full	11.89	-0.41	11.480	24	PASS
175	6825(U-NII 8)	full	5.31	-0.47	4.841	24	PASS
207	6985	full	11.16	-0.47	10.693	24	PASS
		996/67	7.96	-0.47	7.493	24	PASS
		996/S67	8.61	-0.47	8.143	24	PASS

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802.11ax_160_Ch1

CH	Frequency (MHz)	RU config.	Average POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
15	6025	full	10.75	1.5	12.253	24	PASS
		996/67	7.26	1.5	8.763	24	PASS
47	6185	full	10.20	1.5	11.703	24	PASS
79	6345	full	10.24	1.5	11.743	24	PASS
		996/S67	6.70	1.5	8.203	24	PASS
111	6505(U-NII 6)	full	11.55	1.32	12.873	24	PASS
111	6505(U-NII 7)	full	9.28	1.32	10.598	24	PASS
143	6665	full	11.27	1.32	12.593	24	PASS
		996/67	6.78	1.32	8.103	24	PASS
		996/S67	7.27	1.32	8.593	24	PASS
175	6825(U-NII 7)	full	11.83	1.32	13.150	24	PASS
175	6825(U-NII 8)	full	5.25	1.97	7.221	24	PASS
207	6985	full	11.10	1.97	13.073	24	PASS
		996/67	7.89	1.97	9.863	24	PASS
		996/S67	8.52	1.97	10.493	24	PASS

802.11ax_160_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	11.07	10.73	13.93	2.18	16.106	24	PASS
		996/67	7.63	7.25	10.47	2.18	12.647	24	PASS
47	6185	full	10.58	10.19	13.41	2.18	15.592	24	PASS
79	6345	full	10.48	10.23	13.38	2.18	15.560	24	PASS
		996/S67	7.05	6.68	9.89	2.18	12.072	24	PASS
111	6505(U-NII 6)	full	11.86078	11.58976	14.74	1.32	16.058	24	PASS
111	6505(U-NII 7)	full	7.564213	9.315162	11.54	1.32	12.858	24	PASS
143	6665	full	11.62	11.25	14.46	1.32	15.782	24	PASS
		996/67	7.09	6.73	9.94	1.32	11.257	24	PASS
		996/S67	7.57	7.2	10.41	1.32	11.732	24	PASS
175	6825(U-NII 7)	full	12.10699	11.77698	14.96	1.32	16.275	24	PASS
175	6825(U-NII 8)	full	4.664946	5.198005	7.95	1.97	9.920	24	PASS
207	6985	full	11.41	11.1	14.28	1.97	16.251	24	PASS
		996/67	8.25	7.89	11.10	1.97	13.067	24	PASS
		996/S67	8.89	8.45	11.70	1.97	13.669	24	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1- megahertz band.
- (8) For client devices operating under the control of an indoor access point in the 5.925- 7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

EUT CATEGORY	Equipment Class	§15.407(a)
Standard Access Point	6SD	EIRP < 23dBm/MHz
indoor Access Point	6ID	EIRP < 5dBm/MHz
Subordinate Device	6PP	EIRP < 5dBm/MHz
Fixed Client	6FC	EIRP < 23dBm/MHz
V Indoor Client	6XD	EIRP < -1dBm/MHz
Standard Client	6FX	EIRP < 17dBm/MHz
Dual Client	6CD	Compliance both indoor client and standard client limits

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Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

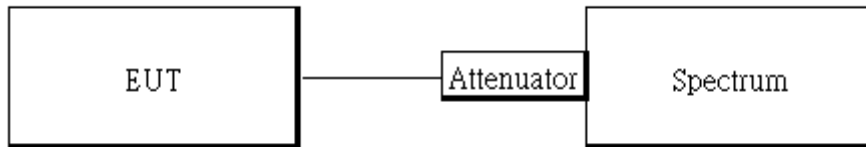
NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

10.2 Test Setup



10.3 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 Spectrum.
4. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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10.4 Measurement Result

10.4.1 Power spectral density

POWER DENSITY 802.11ax HE20 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0 meas	ch1 meas						
5955	full	-10.943	-9.434	0.01	-7.10	4.86	-2.24	-1.00	-1.24
	26/0	-9.951	-10.076	0.01	-6.99	4.86	-2.13	-1.00	-1.13
	52/37	-9.702	-10.189	0.01	-6.92	4.86	-2.06	-1.00	-1.06
	106/53	-10.103	-10.084	0.01	-7.07	4.86	-2.21	-1.00	-1.21
6175	full	-10.466	-10.187	0.01	-7.30	4.86	-2.44	-1.00	-1.44
6415	full	-10.233	-10.201	0.01	-7.20	4.86	-2.34	-1.00	-1.34
	26/8	-10.053	-9.890	0.01	-6.95	4.86	-2.09	-1.00	-1.09
	52/40	-10.197	-10.510	0.01	-7.33	4.86	-2.47	-1.00	-1.47
	106/54	-10.517	-10.580	0.01	-7.53	4.86	-2.67	-1.00	-1.67
6435	full	-9.042	-8.982	0.01	-5.99	3.51	-2.48	-1.00	-1.48
	26/0	-8.708	-8.485	0.01	-5.57	3.51	-2.06	-1.00	-1.06
	52/37	-9.259	-9.331	0.01	-6.27	3.51	-2.76	-1.00	-1.76
	106/53	-8.995	-9.390	0.01	-6.17	3.51	-2.66	-1.00	-1.66
6475	full	-8.731	-8.480	0.01	-5.58	3.51	-2.07	-1.00	-1.07
6515	full	-8.702	-9.067	0.01	-5.86	3.51	-2.35	-1.00	-1.35
	26/8	-8.735	-8.522	0.01	-5.61	3.51	-2.10	-1.00	-1.10
	52/40	-9.309	-9.082	0.01	-6.17	3.51	-2.66	-1.00	-1.66
	106/54	-8.990	-9.480	0.01	-6.21	3.51	-2.70	-1.00	-1.70
6535	full	-8.889	-8.828	0.01	-5.84	3.51	-2.33	-1.00	-1.33
	26/0	-8.532	-8.638	0.01	-5.56	3.51	-2.05	-1.00	-1.05
	52/37	-8.516	-8.733	0.01	-5.60	3.51	-2.09	-1.00	-1.09
	106/53	-8.321	-9.054	0.01	-5.65	3.51	-2.14	-1.00	-1.14
6695	full	-9.082	-8.845	0.01	-5.94	3.51	-2.43	-1.00	-1.43
6855	full	-8.744	-8.778	0.01	-5.74	3.51	-2.23	-1.00	-1.23
	26/8	-9.572	-9.825	0.01	-6.68	3.51	-3.17	-1.00	-2.17
	52/40	-8.962	-8.949	0.01	-5.94	3.51	-2.43	-1.00	-1.43
	106/54	-8.904	-8.570	0.01	-5.71	3.51	-2.20	-1.00	-1.20
6875(U-NII 7)	full	-9.872	-9.685	0.01	-6.77	3.51	-3.26	-1.00	-2.26
6875(U-NII 8)	full	-9.872	-9.685	0.01	-6.77	3.85	-2.92	-1.00	-1.92
6895	full	-9.050	-9.026	0.01	-6.02	3.85	-2.17	-1.00	-1.17
	26/0	-9.295	-9.135	0.01	-6.19	3.85	-2.34	-1.00	-1.34
	52/37	-9.706	-9.719	0.01	-6.69	3.85	-2.84	-1.00	-1.84
	106/53	-9.515	-9.879	0.01	-6.67	3.85	-2.82	-1.00	-1.82
6995	full	-9.065	-8.844	0.01	-5.93	3.85	-2.08	-1.00	-1.08
7115	full	-9.441	-9.304	0.01	-6.35	3.85	-2.50	-1.00	-1.50
	26/8	-9.829	-9.881	0.01	-6.83	3.85	-2.98	-1.00	-1.98
	52/40	-9.200	-9.493	0.01	-6.32	3.85	-2.47	-1.00	-1.47
	106/54	-9.019	-9.116	0.01	-6.05	3.85	-2.20	-1.00	-1.20

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POWER DENSITY 802.11ax HE40 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0 meas	ch1 meas						
5965	full	-10.265	-10.529	0.01	-7.37	4.86	-2.51	-1.00	-1.51
	242/61	-9.649	-10.380	0.01	-6.98	4.86	-2.12	-1.00	-1.12
6165	full	-10.629	-10.283	0.01	-7.43	4.86	-2.57	-1.00	-1.57
6405	full	-10.037	-9.970	0.01	-6.98	4.86	-2.12	-1.00	-1.12
	242/62	-10.230	-9.597	0.01	-6.88	4.86	-2.02	-1.00	-1.02
6445	full	-8.838	-8.722	0.01	-5.76	3.51	-2.25	-1.00	-1.25
	242/61	-9.399	-8.869	0.01	-6.11	3.51	-2.60	-1.00	-1.60
6485	full	-8.764	-9.123	0.01	-5.92	3.51	-2.41	-1.00	-1.41
	242/62	-9.611	-9.040	0.01	-6.30	3.51	-2.79	-1.00	-1.79
6525(U-NII 6)	full	-8.530	-8.827	0.01	-5.67	3.51	-2.16	-1.00	-1.16
6525(U-NII 7)	full	-8.530	-8.827	0.01	-5.67	3.51	-2.16	-1.00	-1.16
6565	full	-8.990	-8.982	0.01	-5.97	3.51	-2.46	-1.00	-1.46
	242/61	-8.413	-9.495	0.01	-5.90	3.51	-2.39	-1.00	-1.39
6685	full	-8.664	-8.690	0.01	-5.66	3.51	-2.15	-1.00	-1.15
6845	full	-9.045	-9.093	0.01	-6.05	3.51	-2.54	-1.00	-1.54
	242/62	-9.450	-9.027	0.01	-6.21	3.51	-2.70	-1.00	-1.70
6885(U-NII 7)	full	-14.312	-14.220	0.01	-11.26	3.51	-7.75	-1.00	-6.75
6885(U-NII 8)	full	-9.184	-9.089	0.01	-6.13	3.85	-2.28	-1.00	-1.28
6925	full	-8.914	-8.944	0.01	-5.91	3.85	-2.06	-1.00	-1.06
	242/61	-8.770	-9.263	0.01	-5.99	3.85	-2.14	-1.00	-1.14
7005	full	-9.348	-9.095	0.01	-6.20	3.85	-2.35	-1.00	-1.35
7085	full	-8.775	-9.194	0.01	-5.96	3.85	-2.11	-1.00	-1.11
	242/62	-8.754	-9.279	0.01	-5.99	3.85	-2.14	-1.00	-1.14

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POWER DENSITY 802.11ax HE80 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0 meas	ch1 meas						
5985	full	-10.000	-10.144	0.01	-7.05	4.86	-2.19	-1.00	-1.19
	484/65	-9.974	-10.710	0.01	-7.31	4.86	-2.45	-1.00	-1.45
6145	full	-10.468	-10.420	0.01	-7.42	4.86	-2.56	-1.00	-1.56
6385	full	-9.918	-10.088	0.01	-6.98	4.86	-2.12	-1.00	-1.12
	484/66	-10.615	-10.717	0.01	-7.65	4.86	-2.79	-1.00	-1.79
6465	full	-8.589	-8.971	0.01	-5.76	3.51	-2.25	-1.00	-1.25
	484/65	-8.716	-9.259	0.01	-5.96	3.51	-2.45	-1.00	-1.45
	484/66	-9.114	-9.982	0.01	-6.51	3.51	-3.00	-1.00	-2.00
6545(U-NII 6)	full	-13.849	-13.505	0.01	-10.66	3.51	-7.15	-1.00	-6.15
6545(U-NII 7)	full	-8.848	-8.511	0.01	-5.67	3.51	-2.16	-1.00	-1.16
6625	full	-9.010	-8.917	0.01	-5.94	3.51	-2.43	-1.00	-1.43
	484/65	-9.220	-8.864	0.01	-6.02	3.51	-2.51	-1.00	-1.51
6705	full	-8.658	-8.460	0.01	-5.54	3.51	-2.03	-1.00	-1.03
6785	full	-8.636	-8.522	0.01	-5.56	3.51	-2.05	-1.00	-1.05
	484/66	-8.932	-9.629	0.01	-6.25	3.51	-2.74	-1.00	-1.74
6865(U-NII 7)	full	-8.740	-8.763	0.01	-5.74	3.51	-2.23	-1.00	-1.23
6865(U-NII 8)	full	-11.042	-11.070	0.01	-8.05	3.85	-4.20	-1.00	-3.20
6945	full	-9.052	-9.347	0.01	-6.18	3.85	-2.33	-1.00	-1.33
	484/65	-9.845	-9.284	0.01	-6.54	3.85	-2.69	-1.00	-1.69
7025	full	-9.369	-9.496	0.01	-6.41	3.85	-2.56	-1.00	-1.56
	484/66	-10.014	-9.513	0.01	-6.74	3.85	-2.89	-1.00	-1.89

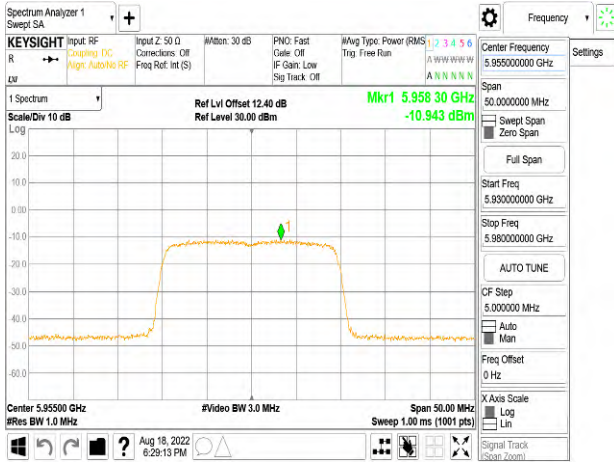
POWER DENSITY 802.11ax HE160 MODE									
Frequency (MHz)	RU config.	PSD (dBm/MHz)		Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Directional Gain(dBi)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0 meas	ch1 meas						
6025	full	-10.564	-10.393	0.01	-7.45	4.86	-2.59	-1.00	-1.59
	996/67	-10.101	-9.776	0.01	-6.91	4.86	-2.05	-1.00	-1.05
6185	full	-10.707	-10.392	0.01	-7.52	4.86	-2.66	-1.00	-1.66
6345	full	-10.237	-10.307	0.01	-7.25	4.86	-2.39	-1.00	-1.39
	996/S67	-10.550	-10.682	0.01	-7.59	4.86	-2.73	-1.00	-1.73
6505(U-NII 6)	full	-8.912	-8.720	0.01	-5.81	3.51	-2.30	-1.00	-1.30
6505(U-NII 7)	full	-11.190	-10.995	0.01	-8.08	3.51	-4.57	-1.00	-3.57
6665	full	-9.159	-8.910	0.01	-6.01	3.51	-2.50	-1.00	-1.50
	996/67	-9.062	-9.495	0.01	-6.25	3.51	-2.74	-1.00	-1.74
	996/S67	-9.279	-9.768	0.01	-6.49	3.51	-2.98	-1.00	-1.98
6825(U-NII 7)	full	-9.206	-8.716	0.01	-5.94	3.51	-2.43	-1.00	-1.43
6825(U-NII 8)	full	-15.785	-15.295	0.01	-12.52	3.85	-8.67	-1.00	-7.67
6985	full	-9.214	-9.597	0.01	-6.38	3.85	-2.53	-1.00	-1.53
	996/67	-9.591	-9.490	0.01	-6.52	3.85	-2.67	-1.00	-1.67
	996/S67	-8.542	-9.451	0.01	-5.95	3.85	-2.10	-1.00	-1.10

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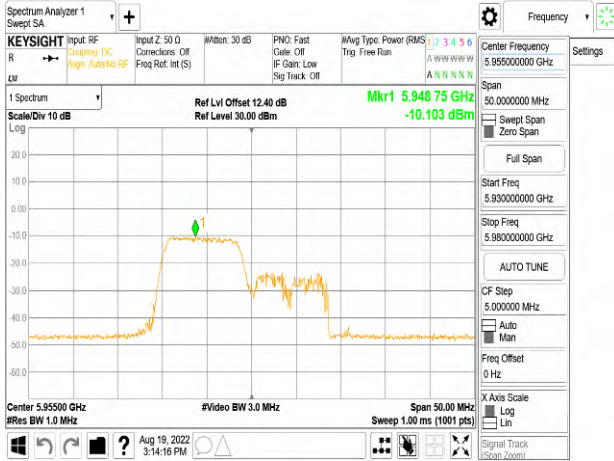
802.11ax_20MHz_Chain0_5955MHz



802.11ax_20MHz_Chain0_5955MHz_RU52_37



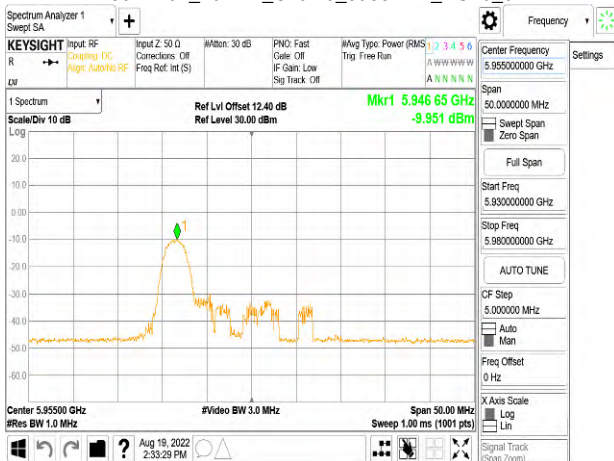
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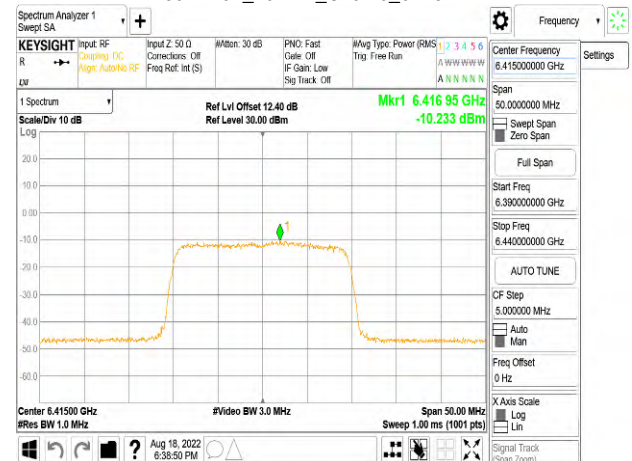
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802.11ax_20MHz_Chain0_5955MHz_RU26_0



802.11ax_20MHz_Chain0_6415MHz

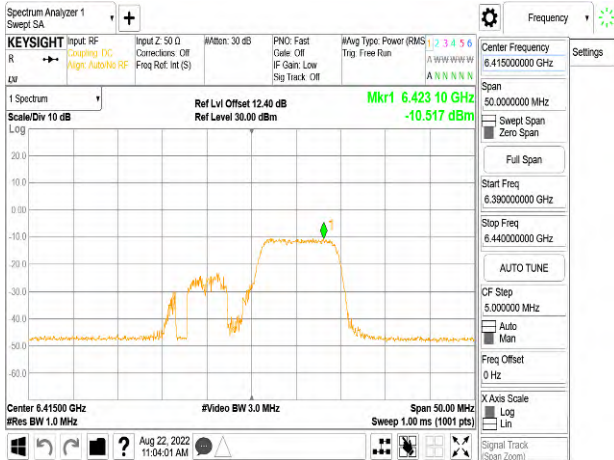


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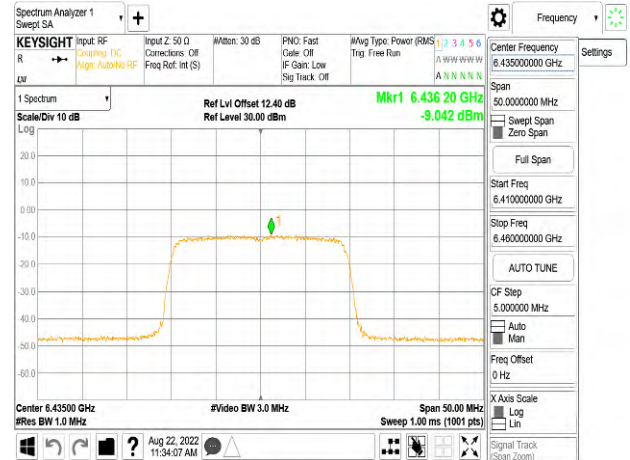
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802.11ax_20MHz_Chain0_6415MHz_RU106_54



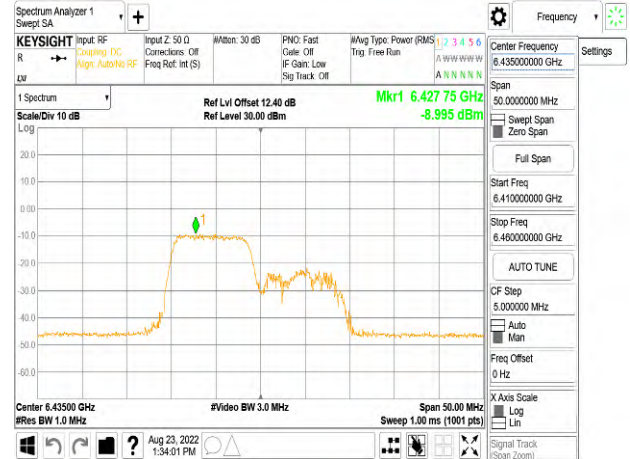
802.11ax_20MHz_Chain0_6435MHz



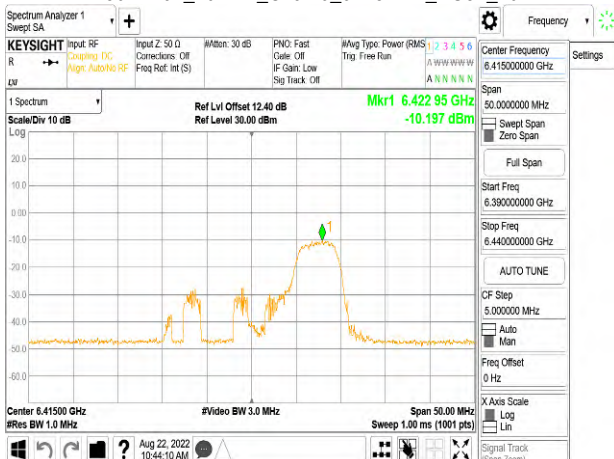
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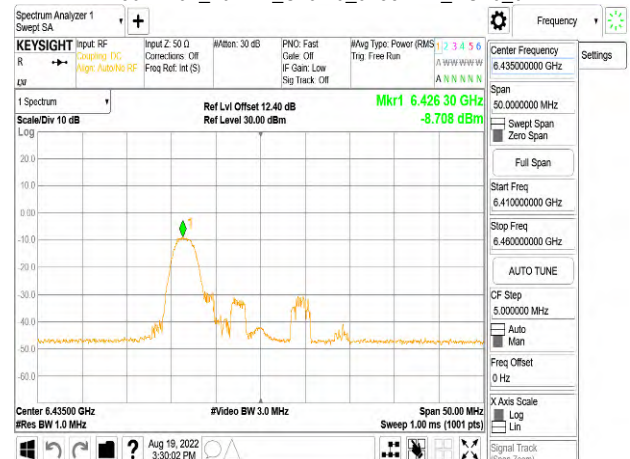
802.11ax_20MHz_Chain0_6435MHz_RU106_53



802.11ax_20MHz_Chain0_6415MHz_RU52_40



802.11ax_20MHz_Chain0_6435MHz_RU26_0

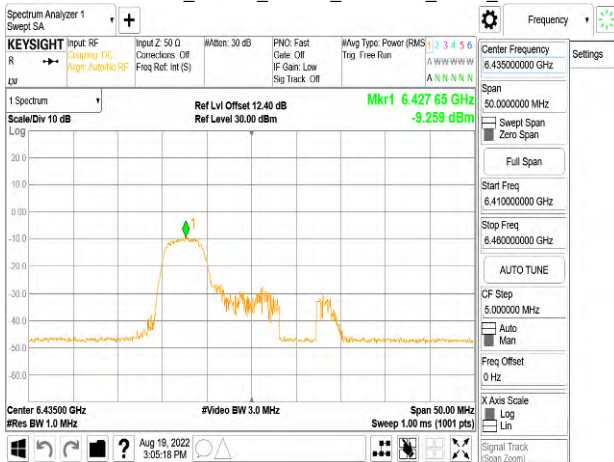


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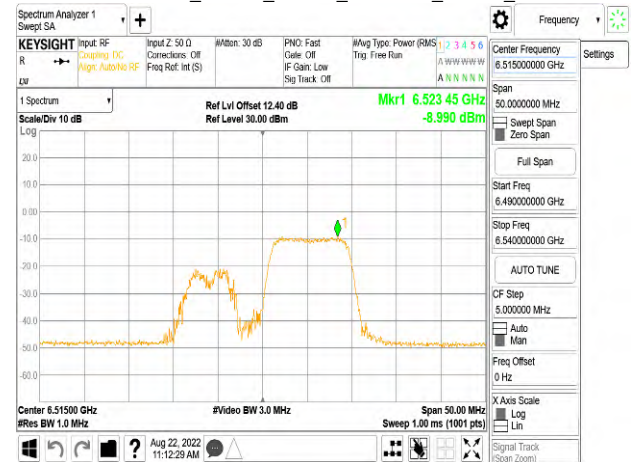
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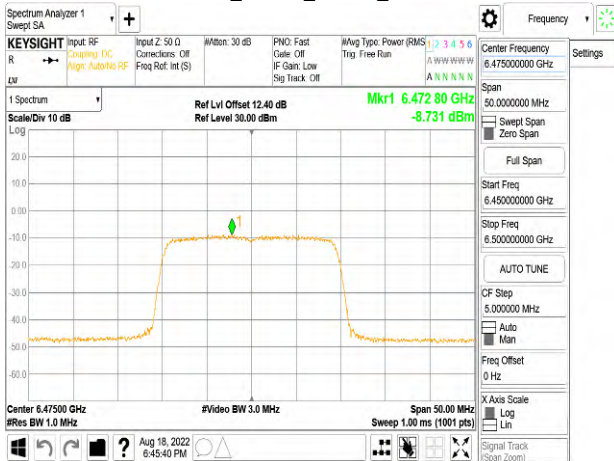
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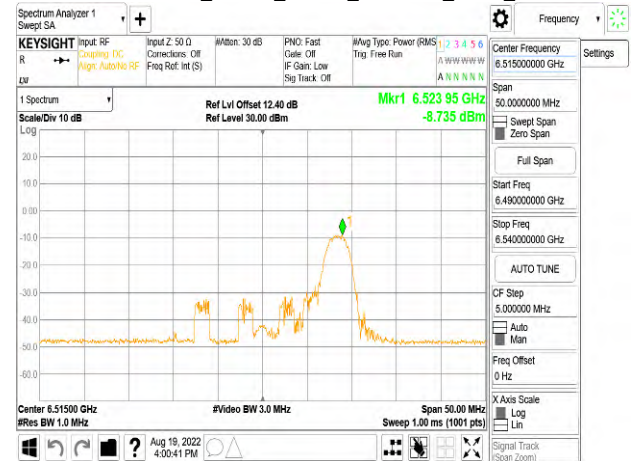
802.11ax_20MHz_Chain0_6515MHz_RU106_54



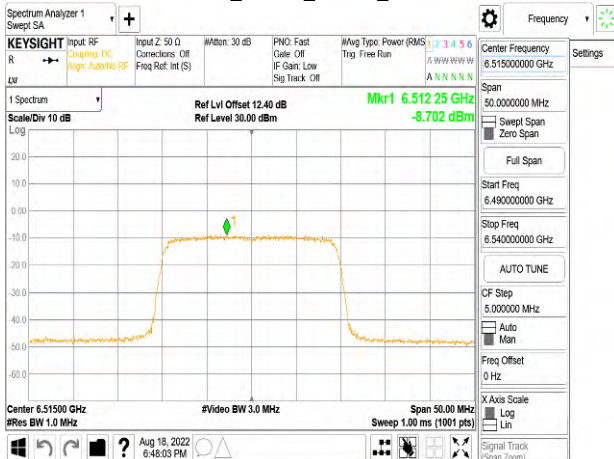
802.11ax_20MHz_Chain0_6475MHz



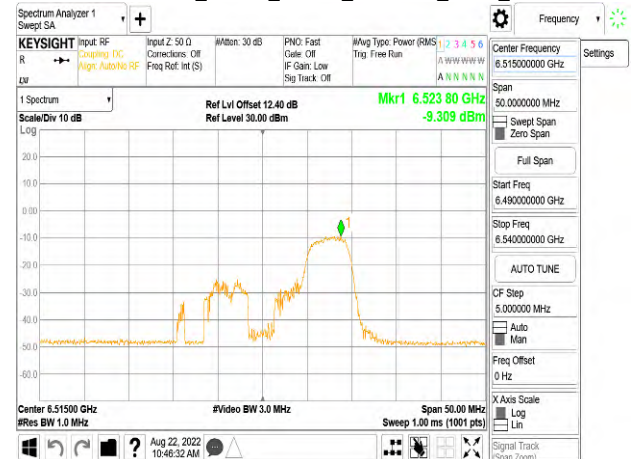
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802.11ax_20MHz_Chain0_6515MHz



802.11ax_20MHz_Chain0_6515MHz_RU52_40

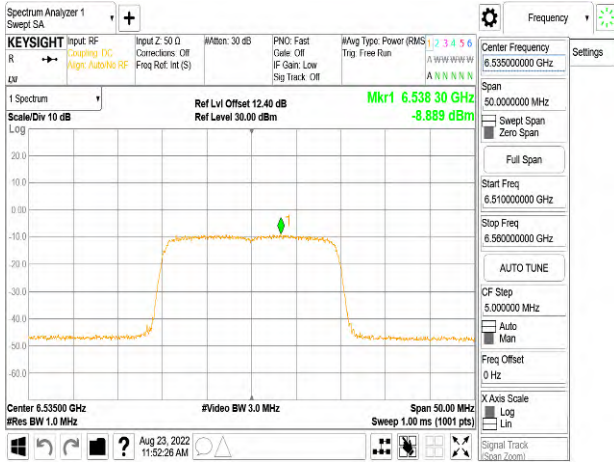


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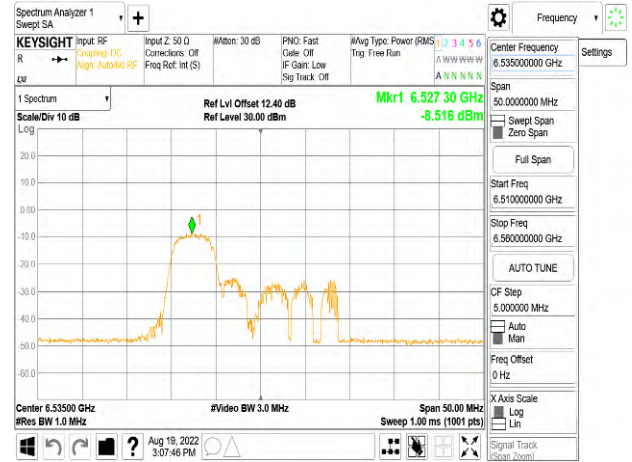
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802.11ax_20MHz_Chain0_6535MHz



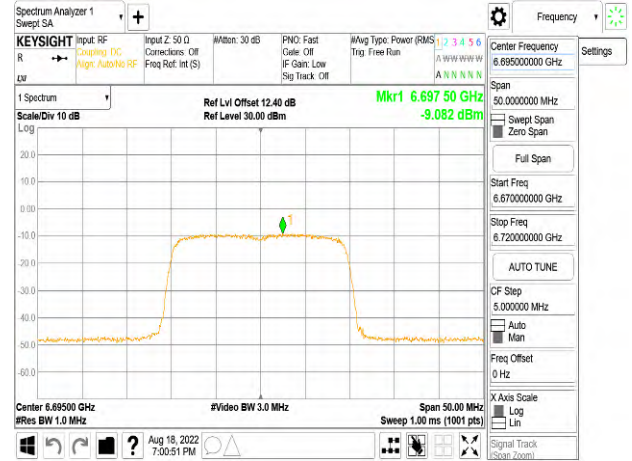
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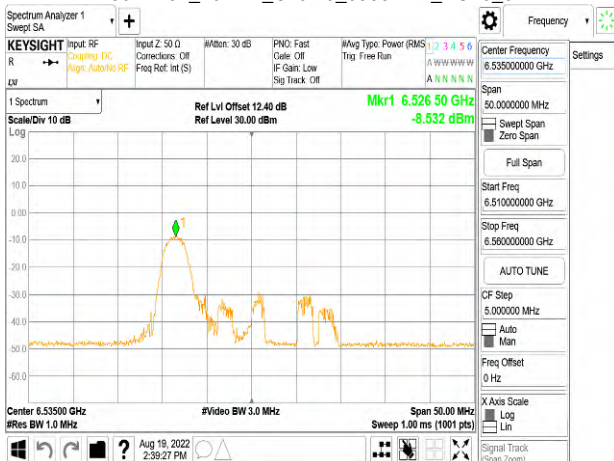
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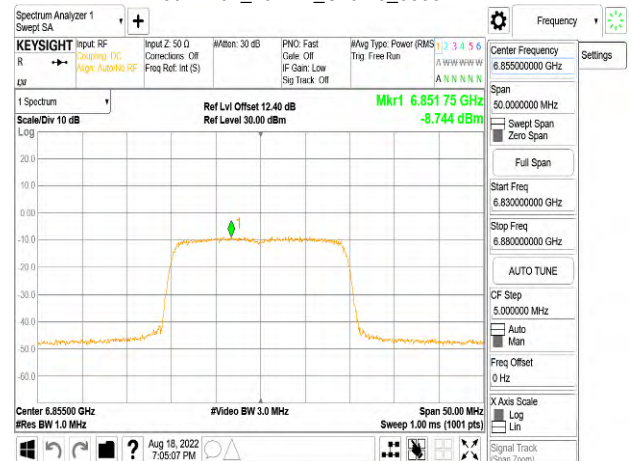
802.11ax_20MHz_Chain0_6695MHz



802.11ax_20MHz_Chain0_6535MHz_RU26_0



802.11ax_20MHz_Chain0_6855MHz

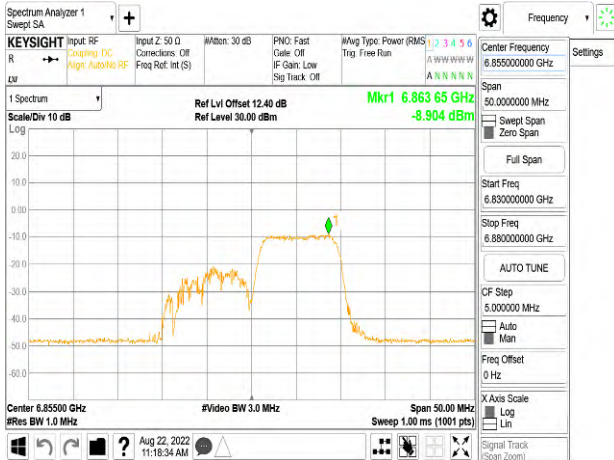


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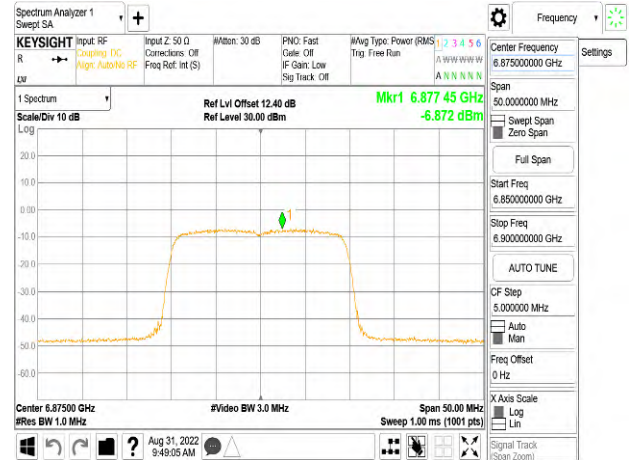
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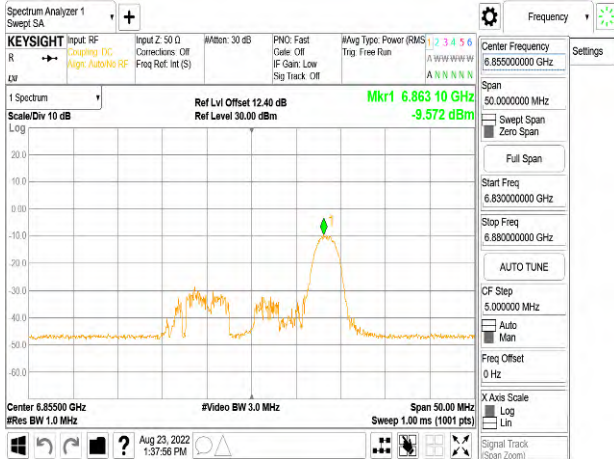
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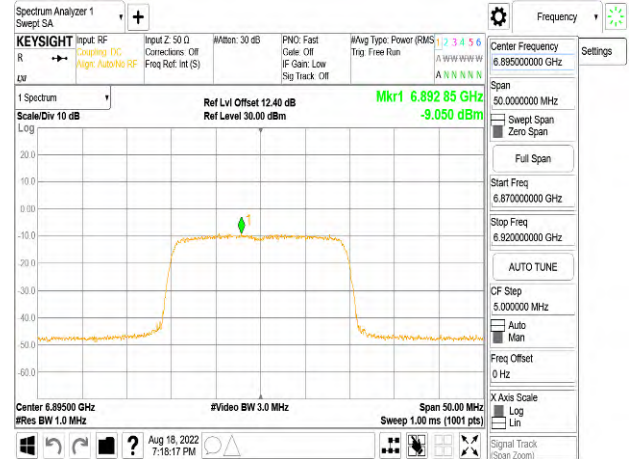
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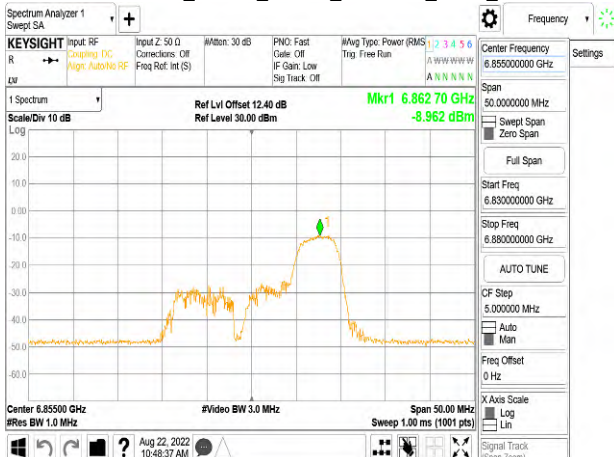
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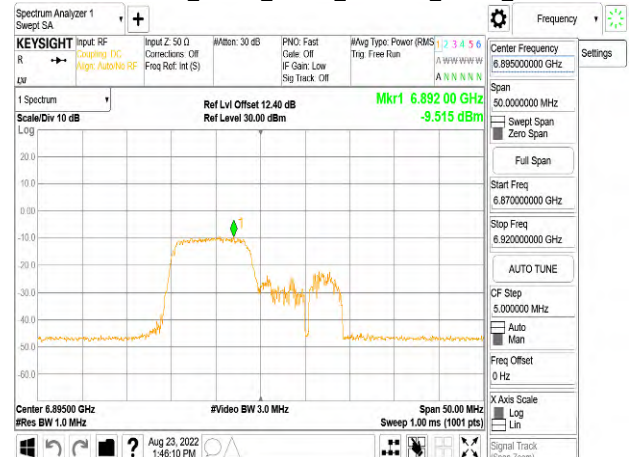
802.11ax_20MHz_Chain0_6895MHz



802.11ax_20MHz_Chain0_6855MHz_RU52_40



802.11ax_20MHz_Chain0_6895MHz_RU106_53



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