

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: Seiko Epson Corporation
3-3-5 Owa Suwa-shi, Nagano-Ken 392-8502 Japan

FCC Manufacturer: Seiko Epson Corporation
6925 Tazawa, Toyoshina, Azumino-shi, (Toyoshina Branch),
Nagano, 399-8285 Japan

Product Name: WLAN BT Module

Brand Name: EPSON

Model No.: NH7

Model Difference: N/A

Report Number: TERF2406001652E2

FCC ID BKMAE-NH7

Date of EUT Received: June 7, 2024

Date of Test: June 20, 2024 ~ August 2, 2024

Issue Date: September 16, 2024

Approved By _____

Aken Huang

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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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2406001652E2	00	Original	August 7, 2024	Yuri Tsai	
TERF2406001652E2	01	Update section 1.4	September 16, 2024	Yuri Tsai	*

Note:

- 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:	WLAN BT Module
Brand Name:	EPSON
Model No.:	NH7
Model Difference:	N/A
Hardware Version:	V1.0
Firmware Version:	V2.015
EUT Series No.:	ARTFBNH700101045E08YRC0.00RV0.00
Power Supply:	5Vdc
Test Software (Name/Version)	adb.exe_1.0.41

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11a: 6 - 54 Mbps
	802.11n_HT20: up to 144.4 Mbps
	802.11n_HT40: up to 300 Mbps
	802.11ac_VHT20: up to 173.4 Mbps
	802.11ac_VHT40: up to 400 Mbps
	802.11ac_VHT80: up to 866.6 Mbps
	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ANT0	5925~6425	3.07
		6425~6525	1.78
		6525~6875	1.78
		6875~7125	1.43
PIFA	ANT1	5925~6425	0.83
		6425~6525	-0.21
		6525~6875	-0.21
		6875~7125	1.71

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.

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1.4 Rated Power

WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5955~6415	24	7.67 dBm
	6435~6515	5	5.65 dBm
	6535~6875	18	7.39 dBm
	6895~7115	12	8.28 dBm
802.11n_HT40/ 802.11ac_VHT40	5965~6405	12	9.88 dBm
	6445~6525	3	8.24 dBm
	6565~6845	8	8.37 dBm
	6885~7085	6	9.39 dBm
802.11ac_VHT80	5985~6385	6	13.18 dBm
	6465	1	10.64 dBm
	6545~6865	5	11.08 dBm
	6945~7025	2	11.96 dBm

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WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20	5955~6415	24	8.56 dBm
	6435~6515	5	6.52 dBm
	6535~6875	18	8.66 dBm
	6895~7115	12	9.34 dBm
802.11ax_HE40	5965~6405	12	10.72 dBm
	6445~6525	3	8.56 dBm
	6565~6845	8	9.95 dBm
	6885~7085	6	10.48 dBm
802.11ax_HE80	5985~6385	6	13.74 dBm
	6465	1	10.80 dBm
	6545~6865	5	12.65 dBm
	6945~7025	2	12.42 dBm

Note: EUTs frequency range 6425.0 – 7125.0 MHz is not enabled in Chile.

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

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 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 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

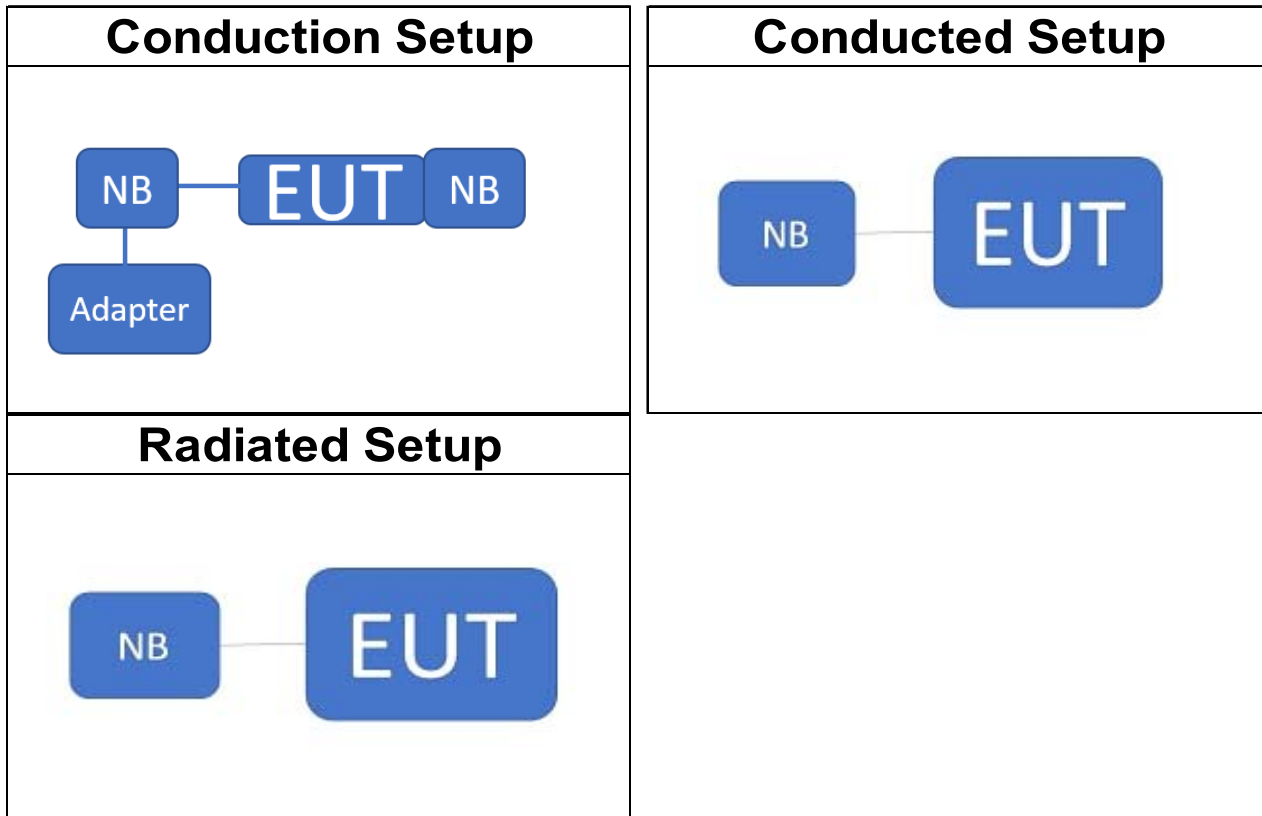
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

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.
USB Cable	Quanta	NH7-01	N/A	N/A	N/A
NB Adapter	Lenovo	45N0119	11S45N0119Z1ZHXT 1CEAA2	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	HP	HSN-Q35C-4	P0003858	N/A	N/A
USB Cable	Quanta	NH7-01	N/A	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	L480	P0002332	N/A	N/A
USB cable	Quanta	NH7-01	N/A	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)(11) §2.1049	Emission Bandwidth	Compliant
§15.407(a)(4~9)	Maximum Conducted Output Power	Compliant
§15.407(a)(4~9)	Power Spectral Density	Compliant
§15.407(b)(7),(11)	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(6), (b)(8),(9),(10)	Undesirable Radiated Emissions	Compliant
§15.407(d)(6)	contention-based protocol	Compliant
§15.407(a)(7)(8)	Test Demonstration of Proper Power Adjustment based on Associated AP	NA Device only associates with indoor AP
§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

20MHz				40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985
5	5975	53	6215	11	6005	23	6065
9	5995	57	6235	19	6045	39	6145
13	6015	61	6255	27	6085	55	6225
17	6035	65	6275	35	6125	71	6305
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-6 6425~6525 MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	103	6465
101	6455	107	6485		
105	6475	115	6525		
109	6495				
113	6515				

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545
121	6555	157	6735	131	6605	135	6625
125	6575	161	6755	139	6645	151	6705
129	6595	165	6775	147	6685	167	6785
133	6615	169	6795	155	6725	183	6865
137	6635	173	6815	163	6765		
141	6655	177	6835	171	6805		
145	6675	181	6855	179	6845		
149	6695	185	6875				

UNII-8 6875~7125 MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	199	6945
193	6915	195	6925	215	7025
197	6935	203	6965		
201	6955	211	7005		
205	6975	219	7045		
209	6995	227	7085		
213	7015				
217	7035				
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 given UE is pre-scanned among below modes.

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

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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.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL		(Mbps)	PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	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			
802.11n_HT20	5955~6415	1 to 93	1,45,93	OFDM	MCS0	N/A
	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			
802.11n_HT40	5965~6405	3 to 91	3,43,91	OFDM	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			
802.11ac_VHT80	5985~6385	7 to 87	7,39,87	OFDM	MCS0	2TX
	6465	103	103			
	6545~6865	119 to 183	119,135,151,167,183			
	6945~7025	199 to 215	199,215			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGURATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL			(Mbps)	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	119,135,151,167,183				
	6945~7025	199 to 215	199,215				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5955~6415	1 to 93	45	OFDM	6	2TX	
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	149				
	6895~7115	189 to 233	209				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	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				
802.11n_HT20	5955~6415	1 to 93	1,45,93	OFDM	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				
802.11n_HT40	5965~6405	3 to 91	3,43,91	OFDM	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				
802.11ac_VHT80	5985~6385	7 to 87	7,39,87	OFDM	MCS0	2TX	
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	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	119,135,151,167,183				
	6945~7025	199 to 215	199,215				

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	+/- 1.54 dB
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				
Polarization: Vertical	+/-	1.89	dB	9kHz~30MHz
	+/-	4.15	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89	dB	9kHz~30MHz
	+/-	4.02	dB	30MHz - 1000MHz
	+/-	3.43	dB	1GHz - 18GHz
	+/-	3.86	dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2	dB	33GHz-50GHz
	+/-	1.59	dB	50GHz-60GHz
	+/-	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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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.
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
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 F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Woken	WATT-218FS-10	RF16	11/15/2023	11/14/2024
Attenuator	Woken	WATT-218FS-10	RF25	11/15/2023	11/14/2024
Coaxial Cables	Woken	00100A1F1A185C	RF77	11/15/2023	11/14/2024
DC Block	PASTERNAK	PE8210	RF153	11/15/2023	11/14/2024
Power Meter	Anritsu	ML2496A	1326001	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315048	08/22/2023	08/21/2024
Power Sensor	Anritsu	MA2411B	1315049	08/22/2023	08/21/2024
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/17/2024	06/16/2025
Switch E-Channel	E-Channel	ETF-1801 RF Switch	EC2100326	11/15/2023	11/14/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
3m Site NSA	SGS	966 chamber D	N/A	04/30/2024	04/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
Attenuator	Marvelous	MVE2213-10	RF14	11/15/2023	11/14/2024
Band Reject Filter	WI	WRC JV2300/2700-2240/2760-40/12SS	RF203	11/15/2023	11/14/2024
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/14/2023	12/13/2024
Coaxial Cable	Huber+Suhner	EMC106-SM-SM-7200	150703	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/15/2023	11/14/2024
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/30/2024	05/29/2025
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/21/2023	08/20/2024
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	11/15/2023	11/14/2024
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/15/2023	11/14/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/03/2024	04/02/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

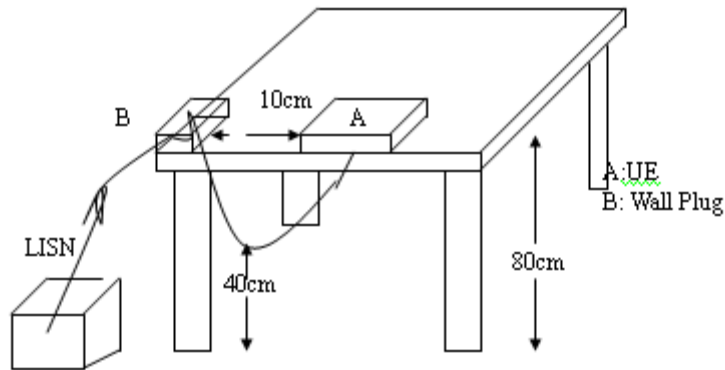
Note

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

7.3 Test Setup



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.

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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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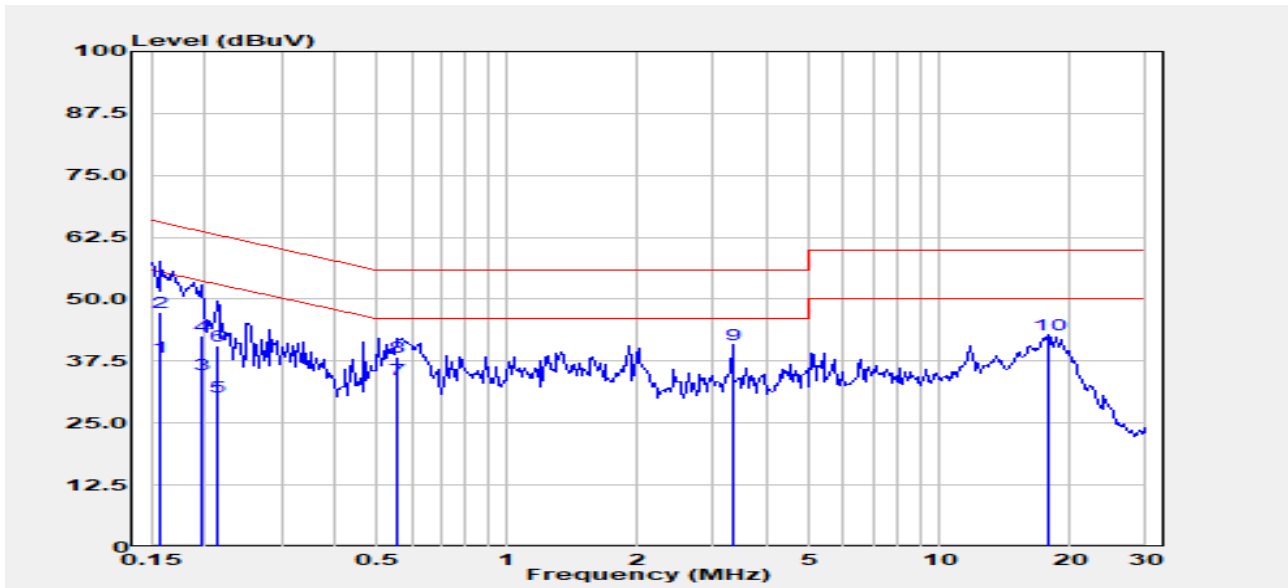
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2406001652E2	Test Site	:Conduction C
Test Mode	:6E	Test Date	:2024-06-25
Power	:120V/60Hz	Temp./Humi.	:24.3°C/47%
Probe	:L1	Engineer	:Jacky Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.158	Average	27.70	10.65	38.35	55.56	-17.21
0.158	QP	36.70	10.65	47.35	65.56	-18.21
0.195	Average	24.10	10.65	34.75	53.80	-19.05
0.195	QP	32.00	10.65	42.65	63.80	-21.15
0.213	Average	19.70	10.65	30.35	53.10	-22.75
0.213	QP	29.90	10.65	40.55	63.10	-22.55
0.558	Average	23.10	10.63	33.73	46.00	-12.27
0.558	QP	27.80	10.63	38.43	56.00	-17.57
3.310	Peak	30.08	10.86	40.94	56.00	-15.06
17.849	Peak	31.67	11.13	42.79	60.00	-17.21

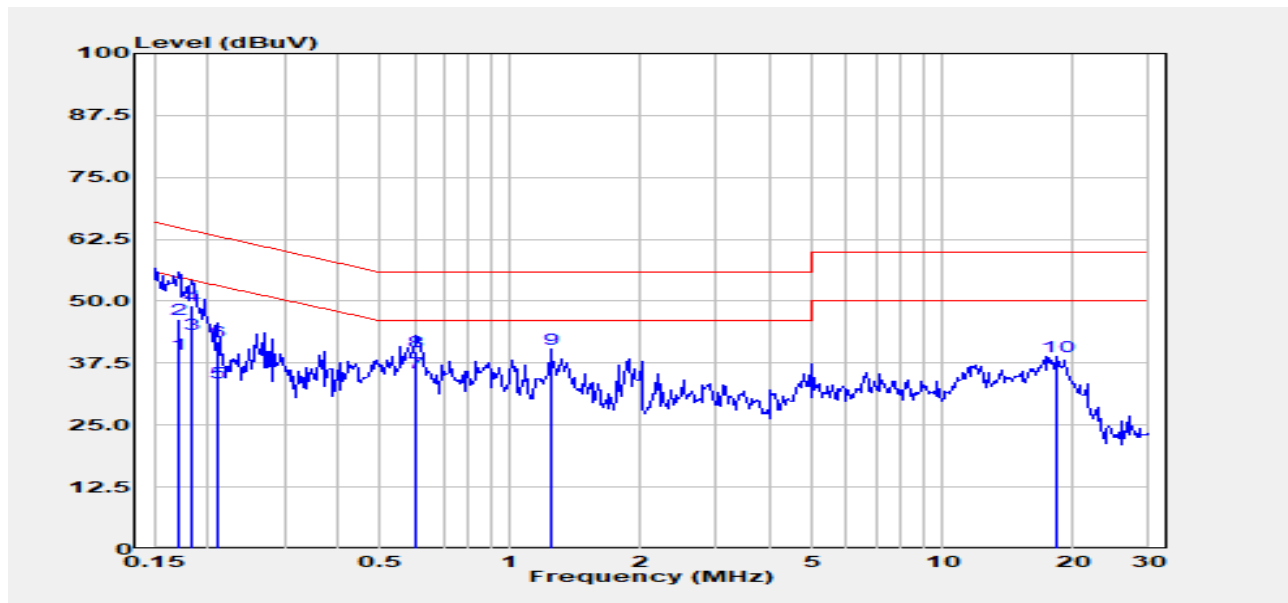
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Report Number	:TERF2406001652E2	Test Site	:Conduction C
Test Mode	:6E	Test Date	:2024-06-25
Power	:120V/60Hz	Temp./Humi.	:24.3°C/47%
Probe	:N	Engineer	:Jacky Chen



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
0.170	Average	28.60	10.66	39.26	54.94	-15.69
0.170	QP	35.60	10.66	46.26	64.94	-18.69
0.183	Average	32.80	10.65	43.45	54.33	-10.87
0.183	QP	38.40	10.65	49.05	64.33	-15.27
0.211	Average	23.00	10.65	33.65	53.18	-19.54
0.211	QP	31.30	10.65	41.95	63.18	-21.24
0.608	Average	25.00	10.62	35.62	46.00	-10.38
0.608	QP	29.20	10.62	39.82	56.00	-16.18
1.236	Peak	29.72	10.69	40.41	56.00	-15.59
18.426	Peak	27.65	11.14	38.78	60.00	-21.22

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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.

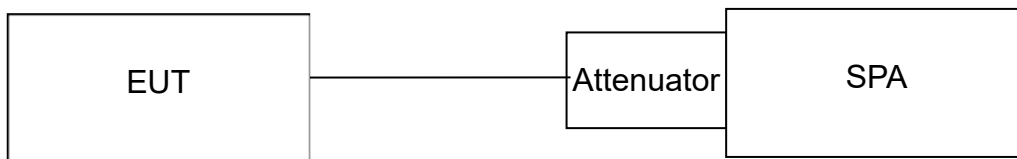
8.2 Measurement Procedure

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 approximately 1% of emission BW Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is approximately 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% to 5% of the OBW,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
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 Bandwidth

802.11a_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.9560	23.950
45	6175	16.7200	25.930
93	6415	16.7150	24.920
97	6435	16.8480	25.730
105	6475	16.6350	24.730
113	6515	16.8500	25.290
117	6535	16.7050	25.160
149	6695	16.8050	25.240
181	6855	16.7140	25.010
185	6875(U-NII 7)	8.4025	12.980
185	6875(U-NII 8)	8.4025	12.980
189	6895	16.8200	25.060
209	6995	16.8530	25.190
233	7115	16.6710	23.960

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802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.6370	22.500
45	6175	16.6620	22.510
93	6415	16.7220	23.190
97	6435	16.5860	22.950
105	6475	16.6090	22.220
113	6515	16.6870	23.370
117	6535	16.6800	23.090
149	6695	16.6650	23.370
181	6855	16.6490	23.740
185	6875(U-NII 7)	8.3315	11.135
185	6875(U-NII 8)	8.3315	11.135
189	6895	16.6590	23.120
209	6995	16.6250	22.170
233	7115	16.6740	21.980

802.11n_HT20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	17.8240	24.700
45	6175	17.9470	25.310
93	6415	17.9560	26.890
97	6435	17.9770	25.830
105	6475	17.8100	26.120
113	6515	17.9050	26.400
117	6535	17.8230	25.970
149	6695	17.9010	26.410
181	6855	17.8810	25.040
185	6875(U-NII 7)	8.9590	12.405
185	6875(U-NII 8)	8.9590	12.405
189	6895	18.0540	27.370
209	6995	17.8800	25.790
233	7115	17.8780	24.650

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802.11n_HT20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	17.7050	22.250
45	6175	17.6920	22.080
93	6415	17.8150	22.360
97	6435	17.6820	23.350
105	6475	17.6950	23.160
113	6515	17.7380	22.690
117	6535	17.7470	22.310
149	6695	17.7630	22.290
181	6855	17.6670	23.100
185	6875(U-NII 7)	8.8105	11.125
185	6875(U-NII 8)	8.8105	11.125
189	6895	17.7170	22.020
209	6995	17.7280	22.690
233	7115	17.7000	21.340

802.11n_HT40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	35.7840	39.930
43	6165	35.7830	39.750
91	6405	35.8040	39.640
99	6445	35.8430	39.860
107	6485	35.7890	39.540
115	6525(U-NII 6)	17.8985	19.830
115	6525(U-NII 7)	17.8985	19.830
123	6565	35.8120	39.830
147	6685	35.7940	39.760
179	6845	35.8250	39.660
187	6885(U-NII 7)	7.9310	9.825
187	6885(U-NII 8)	27.9310	29.825
195	6925	35.7960	39.180
211	7005	35.7770	39.650
227	7085	35.8260	39.420

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802.11n_HT40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	35.9830	38.840
43	6165	35.7200	38.980
91	6405	35.7910	38.830
99	6445	35.8090	38.920
107	6485	35.7920	39.000
115	6525(U-NII 6)	17.8525	19.395
115	6525(U-NII 7)	17.8525	19.395
123	6565	35.8290	38.810
147	6685	35.8650	38.650
179	6845	35.8450	39.090
187	6885(U-NII 7)	7.8780	9.435
187	6885(U-NII 8)	27.8780	29.435
195	6925	35.7710	39.160
211	7005	35.9980	38.530
227	7085	35.8240	38.600

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	75.2080	79.760
39	6145	75.2220	79.570
87	6385	74.9360	79.780
103	6465	75.1000	79.970
119	6545(U-NII 6)	17.4235	19.815
119	6545(U-NII 7)	57.4235	59.815
135	6625	75.0430	79.780
151	6705	75.3120	79.580
167	6785	75.0540	79.370
183	6865(U-NII 7)	47.6565	49.745
183	6865(U-NII 8)	27.6565	29.745
199	6945	75.0640	79.220
215	7025	75.3790	79.720

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	75.2020	78.940
39	6145	75.0720	79.090
87	6385	74.9270	78.790
103	6465	75.1930	78.580
119	6545(U-NII 6)	17.4725	19.345
119	6545(U-NII 7)	57.4725	59.345
135	6625	74.9980	78.750
151	6705	75.0100	78.720
167	6785	74.9660	78.780
183	6865(U-NII 7)	47.5390	49.490
183	6865(U-NII 8)	27.5390	29.490
199	6945	74.7630	78.920
215	7025	75.0860	78.790

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	18.9460	21.120
1	5955	26/0	18.4930	20.470
1	5955	52/37	18.2070	20.310
1	5955	106/53	18.1460	20.550
45	6175	full	18.9300	20.530
93	6415	full	18.9900	21.260
93	6415	26/8	18.1410	20.290
93	6415	52/40	18.3120	20.170
93	6415	106/54	17.9730	20.310
97	6435	full	18.9850	22.270
97	6435	26/0	18.4680	20.490
97	6435	52/37	17.6850	19.530
97	6435	106/53	18.1880	20.210
105	6475	full	18.9470	21.880
113	6515	full	18.9190	20.880
113	6515	26/8	18.3460	20.720
113	6515	52/40	17.5140	20.350
113	6515	106/54	18.1420	20.420
117	6535	full	18.9210	21.370
117	6535	26/0	18.3890	20.150
117	6535	52/37	17.8630	20.810
117	6535	106/53	18.1320	20.740
149	6695	full	18.9730	21.380
181	6855	full	18.9730	21.540
185	6875(U-NII 7)	full	9.4990	10.645
185	6875(U-NII 7)	26/8	18.4790	20.310
185	6875(U-NII 7)	52/40	18.3280	21.220
185	6875(U-NII 7)	106/54	18.1110	20.000
185	6875(U-NII 8)	full	9.4990	10.645
189	6895	full	18.9350	21.140
189	6895	26/0	18.4600	20.100
189	6895	52/37	18.2910	21.950
189	6895	106/53	18.2130	21.960
209	6995	full	18.9500	21.810
233	7115	full	18.9340	21.430
233	7115	26/8	18.5970	20.300
233	7115	52/40	18.2310	20.400
233	7115	106/54	17.9300	20.310

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
1	5955	full	18.9830	21.280
1	5955	26/0	18.3590	19.910
1	5955	52/37	17.8620	20.170
1	5955	106/53	17.9300	21.090
45	6175	full	18.9600	21.570
93	6415	full	18.9270	20.860
93	6415	26/8	17.6790	20.100
93	6415	52/40	17.8470	20.400
93	6415	106/54	18.2660	20.380
97	6435	full	18.9520	20.680
97	6435	26/0	17.1990	19.030
97	6435	52/37	18.0020	19.960
97	6435	106/53	15.6020	16.840
105	6475	full	18.9650	21.280
113	6515	full	18.9160	20.930
113	6515	26/8	17.8270	19.210
113	6515	52/40	18.2080	21.030
113	6515	106/54	18.2340	20.330
117	6535	full	18.9560	21.130
117	6535	26/0	18.0740	19.930
117	6535	52/37	17.8530	20.140
117	6535	106/53	17.7490	19.360
149	6695	full	18.9280	21.260
181	6855	full	18.9140	21.480
185	6875(U-NII 7)	full	9.4615	10.650
185	6875(U-NII 7)	26/8	18.5070	20.000
185	6875(U-NII 7)	52/40	18.0180	20.590
185	6875(U-NII 7)	106/54	18.2460	21.160
185	6875(U-NII 8)	full	9.4615	10.650
189	6895	full	18.9160	21.140
189	6895	26/0	18.3450	20.070
189	6895	52/37	18.2630	20.390
189	6895	106/53	18.1520	20.370
209	6995	full	18.9600	21.640
233	7115	full	18.9540	21.880
233	7115	26/8	18.2110	20.030
233	7115	52/40	17.7460	20.170
233	7115	106/54	18.2470	19.730

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802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.4920	39.360
3	5965	242/61	18.2000	38.870
43	6165	full	37.4740	39.020
91	6405	full	37.5000	39.430
91	6405	242/62	19.2680	39.130
99	6445	full	37.4680	39.440
99	6445	242/61	19.3140	39.130
107	6485	full	37.3750	39.190
107	6485	242/62	19.2200	39.120
115	6525(U-NII 6)	full	18.7445	19.645
115	6525(U-NII 7)	full	18.7445	19.645
123	6565	full	37.4510	39.320
123	6565	242/61	19.0130	39.230
147	6685	full	37.4210	39.300
179	6845	full	37.4650	39.150
179	6845	242/62	19.1970	39.420
187	6885(U-NII 7)	full	8.7345	9.565
187	6885(U-NII 8)	full	28.7345	29.565
195	6925	full	37.3680	39.170
195	6925	242/61	19.3930	39.170
211	7005	full	37.4320	39.330
227	7085	full	37.5170	39.260
227	7085	242/62	19.0080	38.760

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
3	5965	full	37.4650	39.530
3	5965	242/61	19.0320	38.850
43	6165	full	37.4410	39.240
91	6405	full	37.5460	39.310
91	6405	242/62	19.1380	38.940
99	6445	full	37.5170	39.420
99	6445	242/61	19.0880	39.260
107	6485	full	37.4700	39.140
107	6485	242/62	19.1430	38.970
115	6525(U-NII 6)	full	18.7210	19.710
115	6525(U-NII 7)	full	18.7210	19.710
123	6565	full	37.4110	39.380
123	6565	242/61	19.0550	39.050
147	6685	full	37.4140	39.120
179	6845	full	37.4660	39.430
179	6845	242/62	19.1590	38.980
187	6885(U-NII 7)	full	8.7270	9.630
187	6885(U-NII 8)	full	28.7270	29.630
195	6925	full	37.4460	39.110
195	6925	242/61	19.3100	39.250
211	7005	full	37.5490	39.300
227	7085	full	37.4940	39.140
227	7085	242/62	19.1500	39.030

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802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	76.8790	80.070
7	5985	484/65	39.2080	79.130
39	6145	full	76.7590	80.210
87	6385	full	76.7830	80.090
87	6385	484/66	41.4210	79.440
103	6465	full	76.6840	79.970
103	6465	484/65	40.5100	79.610
103	6465	484/66	38.3760	79.450
119	6545(U-NII 6)	full	18.2670	20.005
119	6545(U-NII 7)	full	58.2670	60.005
135	6625	full	76.4120	79.780
135	6625	484/65	39.4960	79.780
151	6705	full	76.8540	79.980
167	6785	full	76.4990	80.000
167	6785	484/66	39.1520	79.660
183	6865(U-NII 7)	full	48.4240	49.935
183	6865(U-NII 8)	full	28.4240	29.935
199	6945	full	76.4640	79.950
199	6945	484/65	39.4780	78.980
215	7025	full	76.8810	79.990
215	7025	484/66	40.0160	79.690

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802.11ax_HE80_Ch1

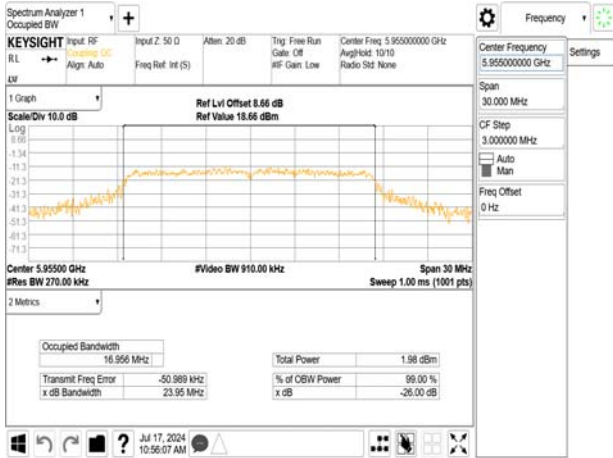
CH	Frequency (MHz)	RU Config.	99% BW (MHz)	26dB BW (MHz)
7	5985	full	76.8040	79.960
7	5985	484/65	38.6150	79.580
39	6145	full	76.7920	79.890
87	6385	full	76.3780	79.950
87	6385	484/66	38.4990	79.450
103	6465	full	76.7670	80.220
103	6465	484/65	38.6520	79.740
103	6465	484/66	38.5420	79.570
119	6545(U-NII 6)	full	18.2995	20.000
119	6545(U-NII 7)	full	58.2995	60.000
135	6625	full	76.8170	79.840
135	6625	484/65	38.7390	79.240
151	6705	full	76.9550	79.860
167	6785	full	76.5150	79.790
167	6785	484/66	38.2680	79.840
183	6865(U-NII 7)	full	48.3540	49.980
183	6865(U-NII 8)	full	28.3540	29.980
199	6945	full	76.4720	79.770
199	6945	484/65	39.0700	79.750
215	7025	full	76.6380	80.070
215	7025	484/66	38.9450	79.720

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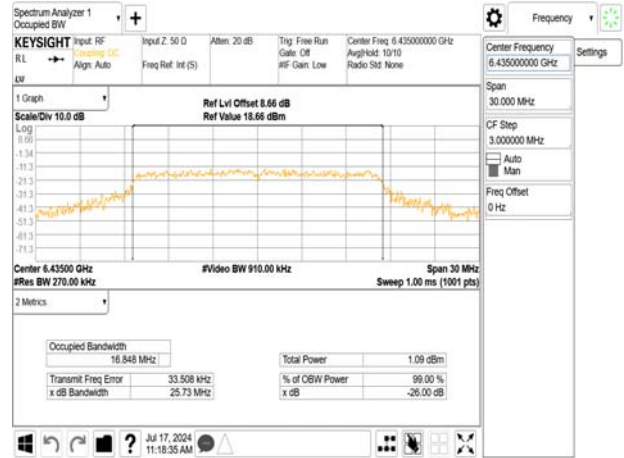
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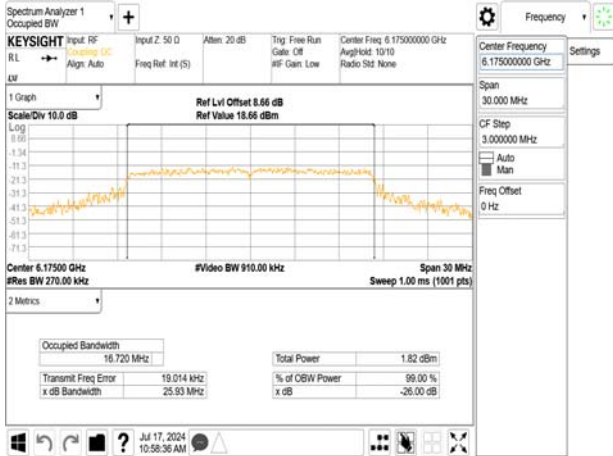
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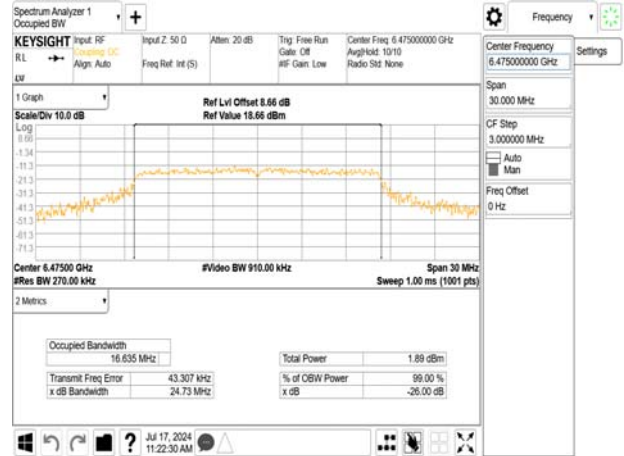
802.11a_20MHz_Chain0_6435MHz



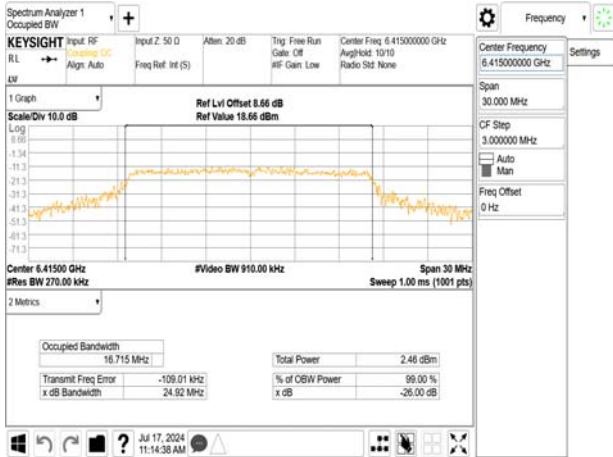
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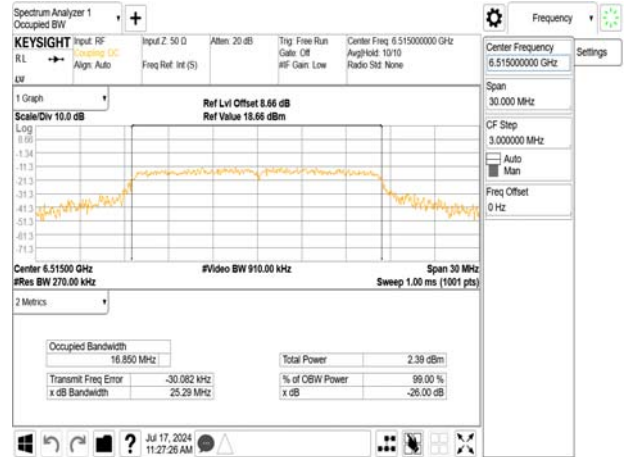
802.11a_20MHz_Chain0_6475MHz



802.11a_20MHz_Chain0_6415MHz



802.11a_20MHz_Chain0_6515MHz

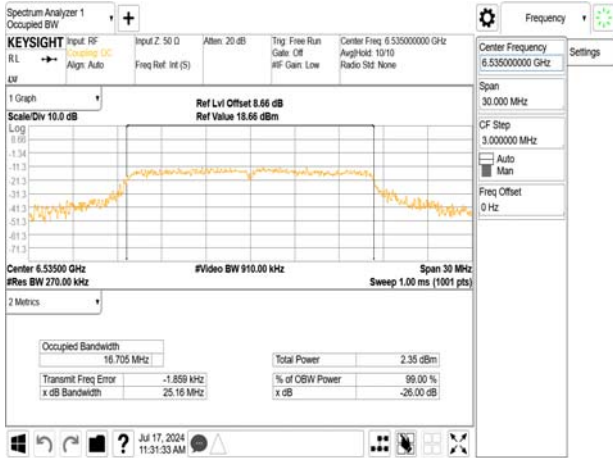


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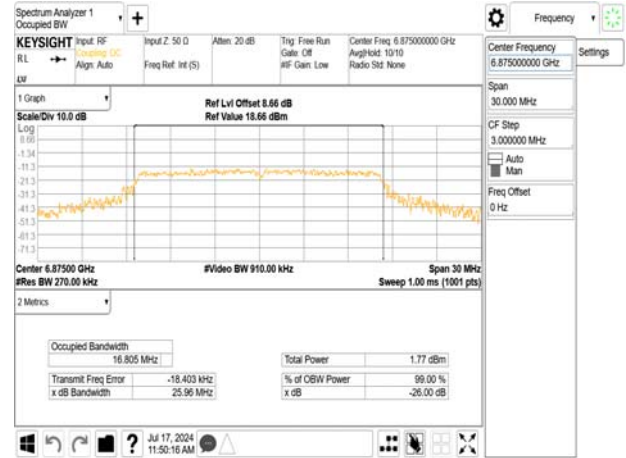
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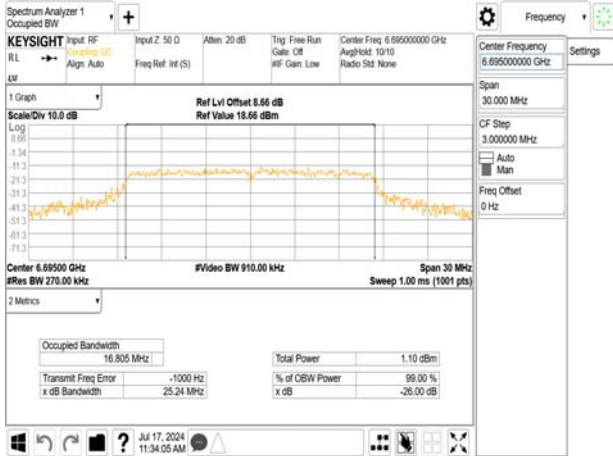
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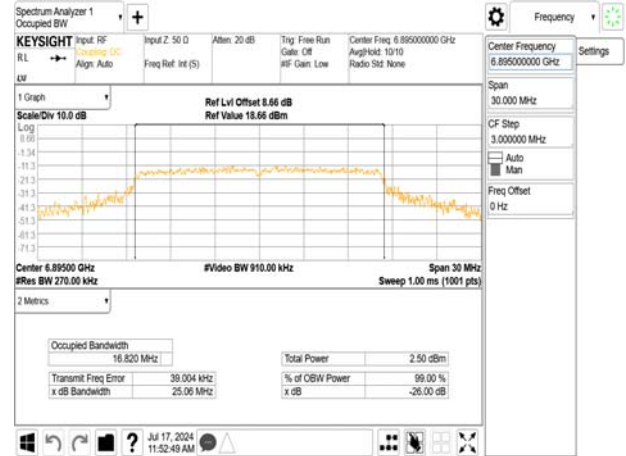
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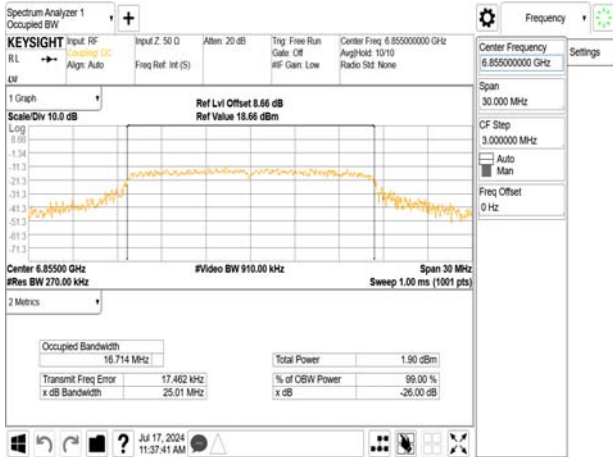
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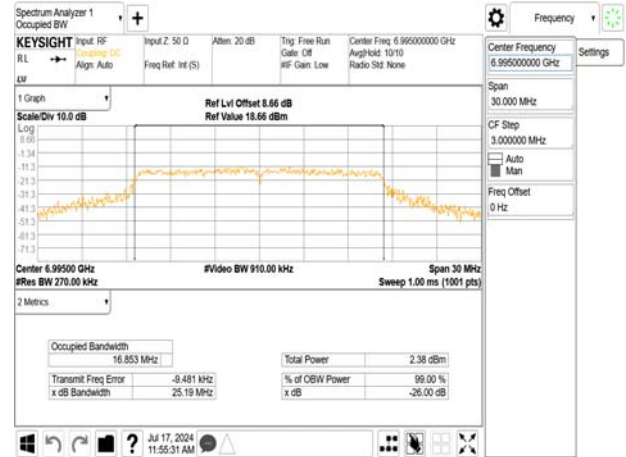
802.11a_20MHz_Chain0_6895MHz



802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6995MHz

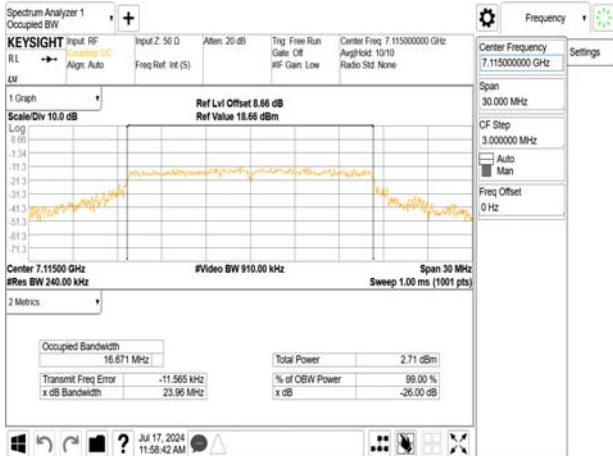


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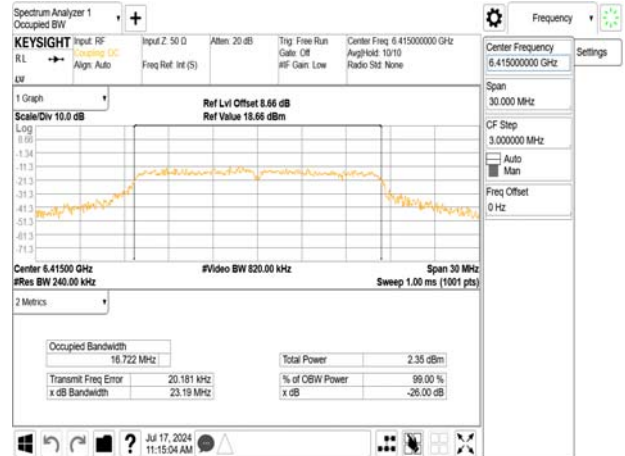
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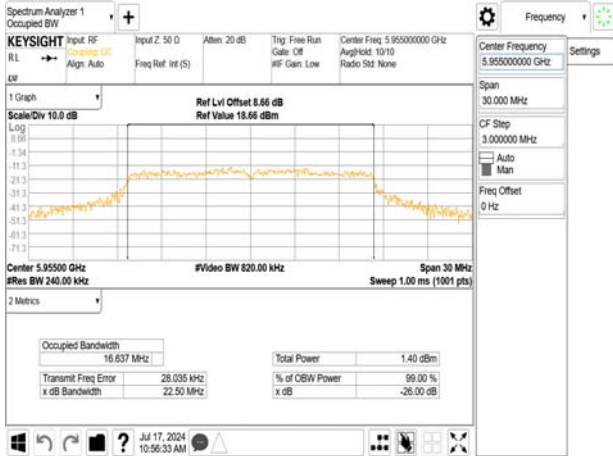
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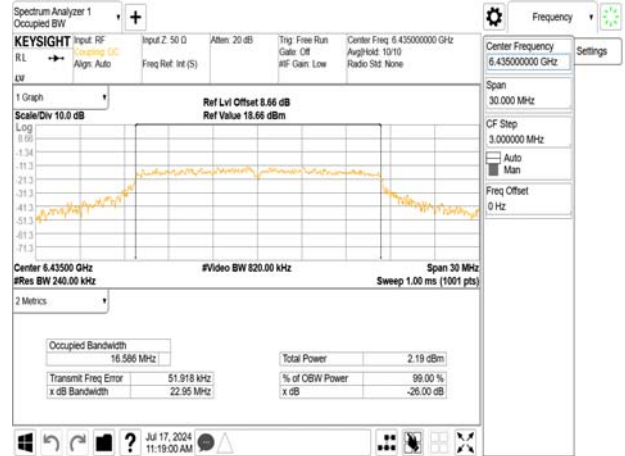
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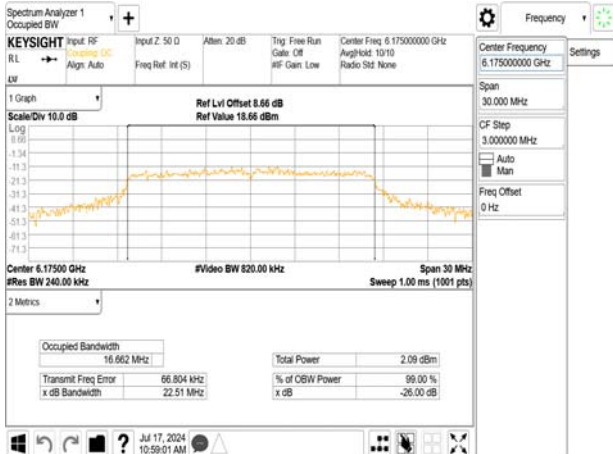
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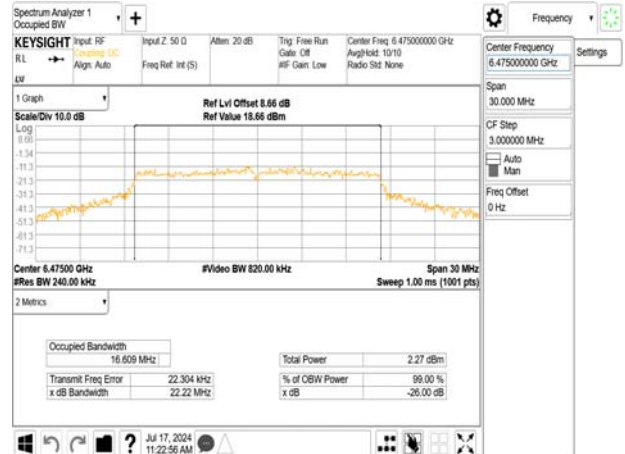
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802.11a_20MHz_Chain1_6175MHz



802.11a_20MHz_Chain1_6475MHz

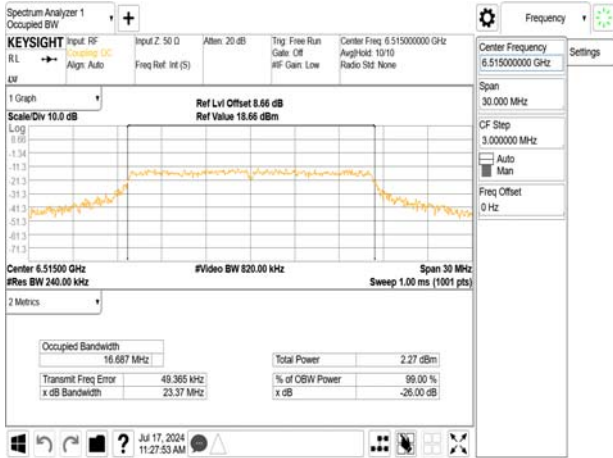


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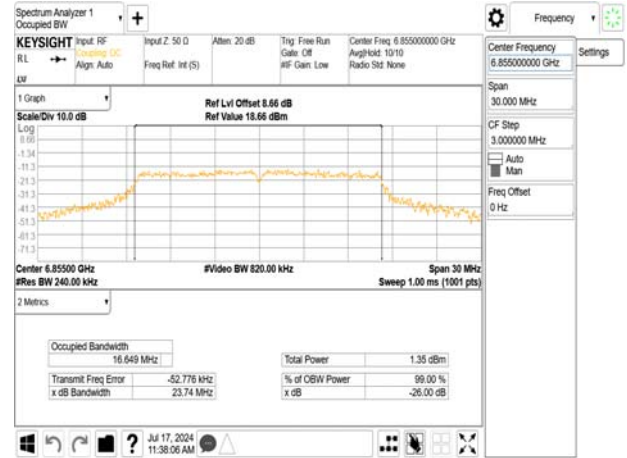
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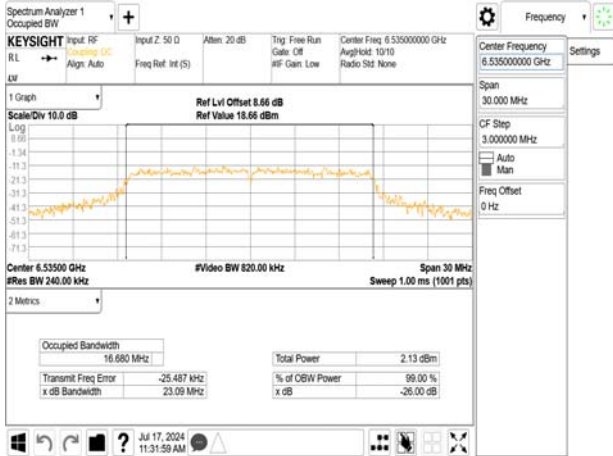
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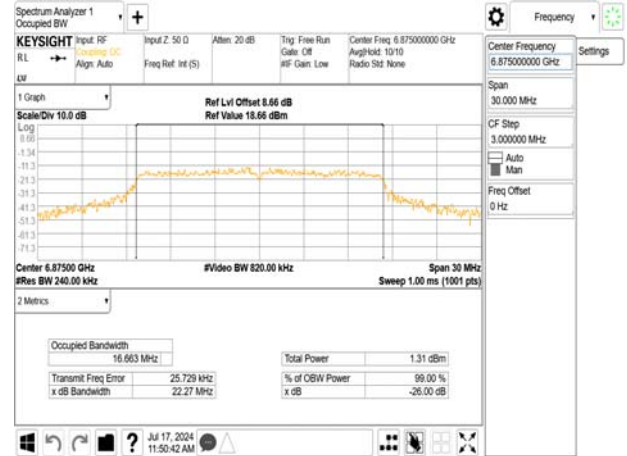
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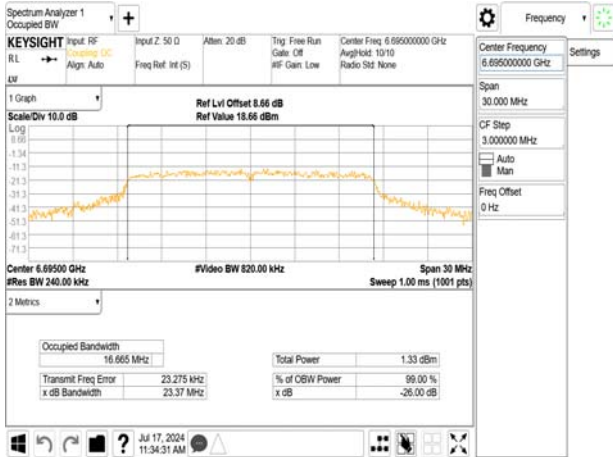
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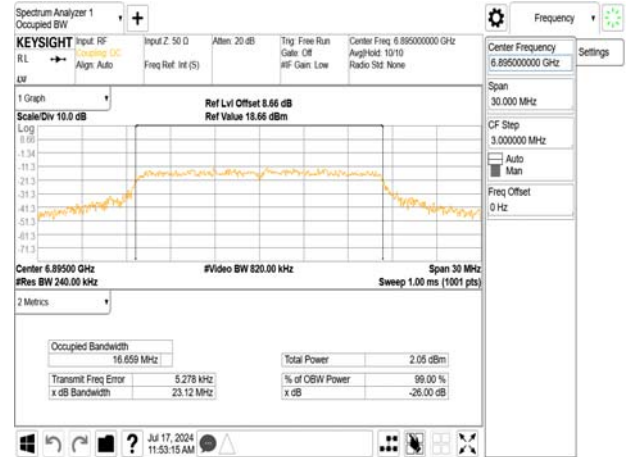
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802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6895MHz

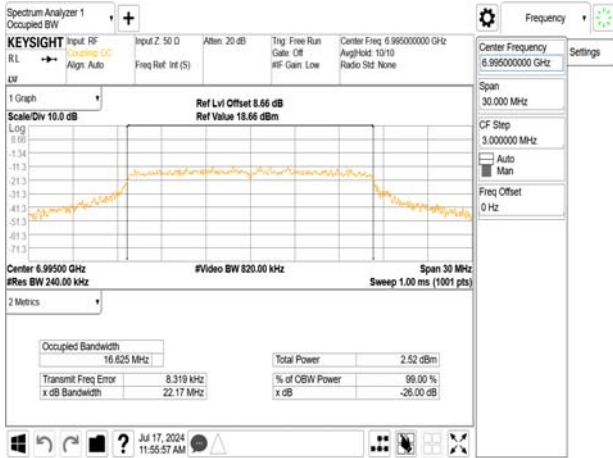


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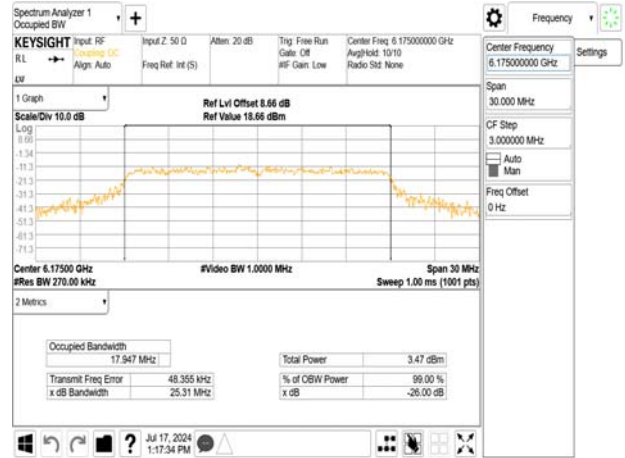
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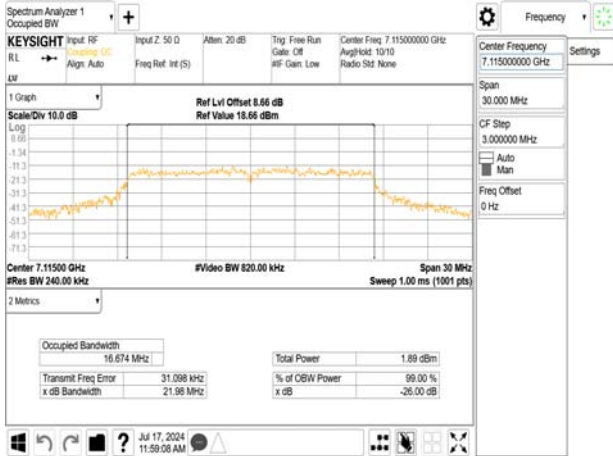
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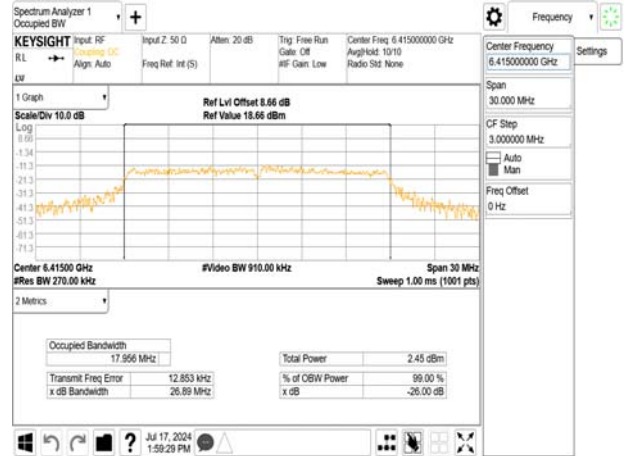
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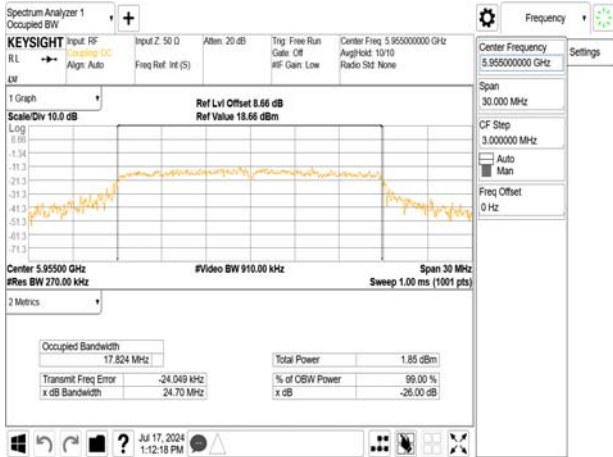
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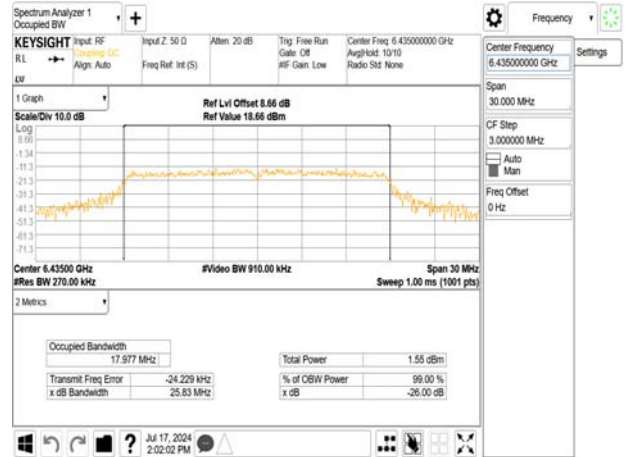
802.11n_20MHz_Chain0_6415MHz



802.11n_20MHz_Chain0_5955MHz



802.11n_20MHz_Chain0_6435MHz

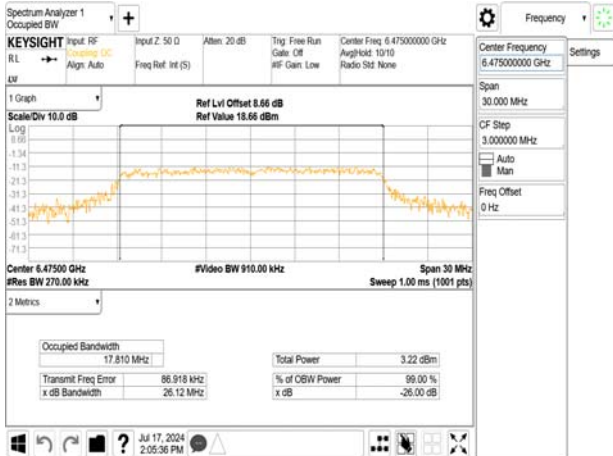


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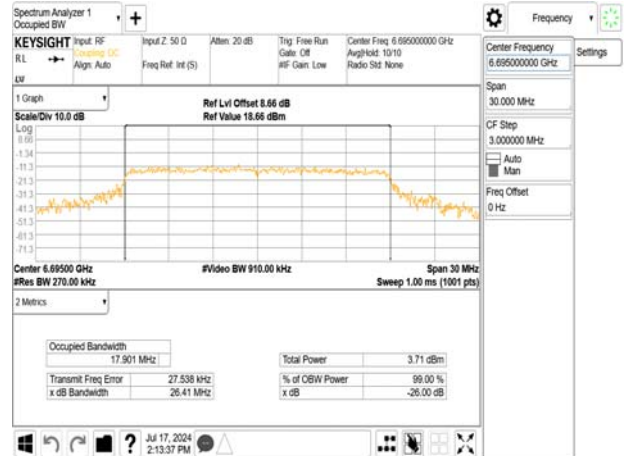
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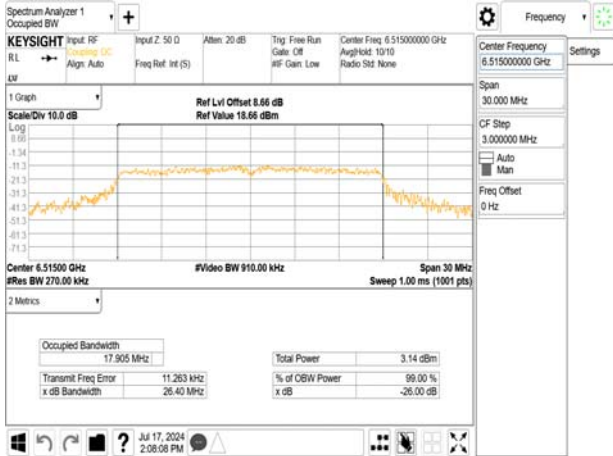
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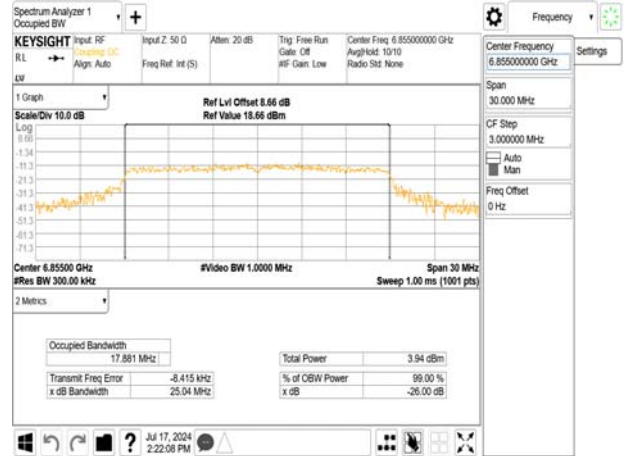
802.11n_20MHz_Chain0_6695MHz



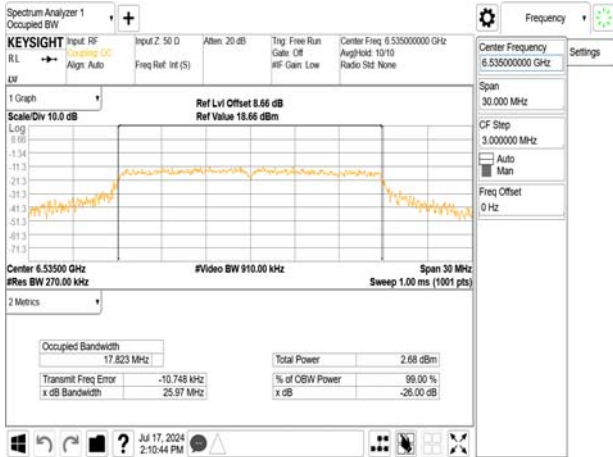
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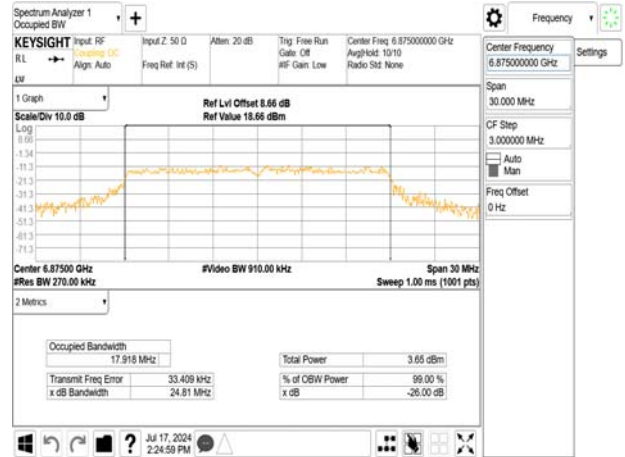
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802.11n_20MHz_Chain0_6535MHz



802.11n_20MHz_Chain0_6875MHz

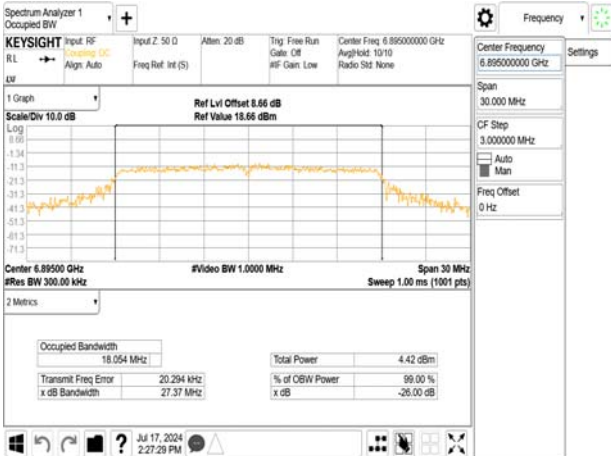


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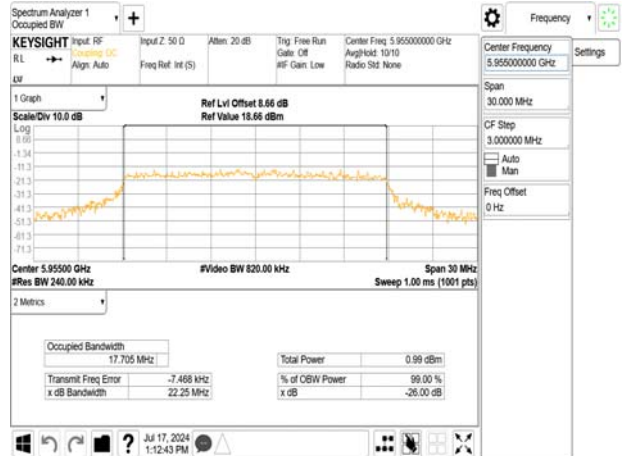
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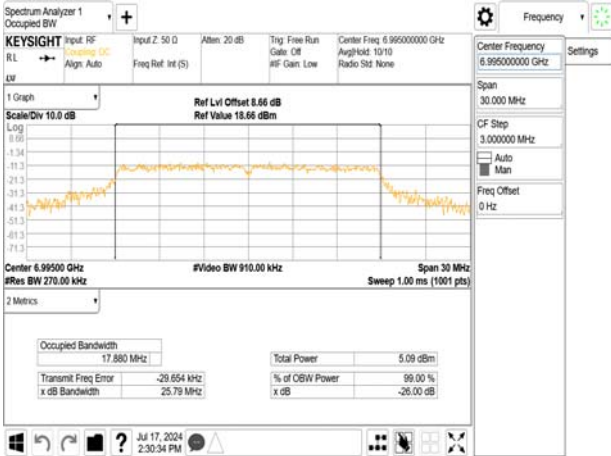
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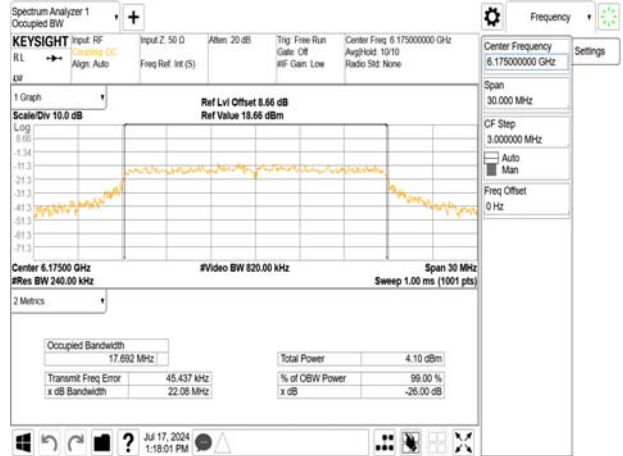
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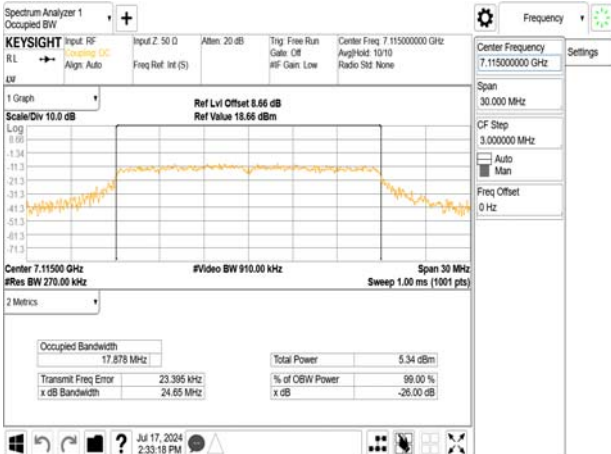
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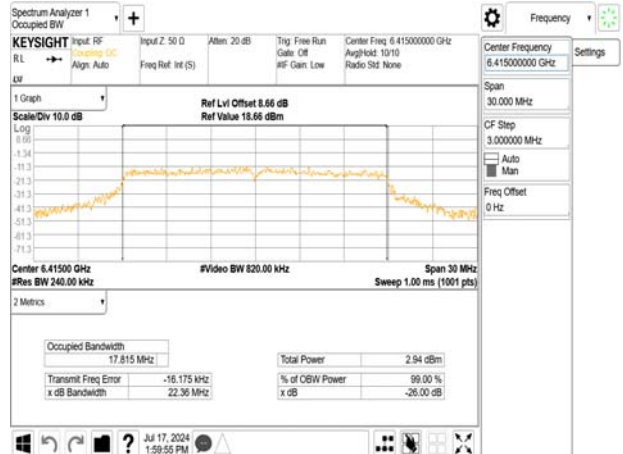
802.11n_20MHz_Chain1_6175MHz



802.11n_20MHz_Chain0_7115MHz



802.11n_20MHz_Chain1_6415MHz

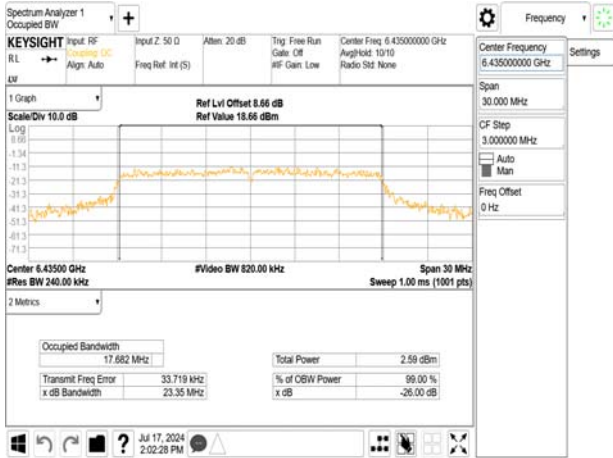


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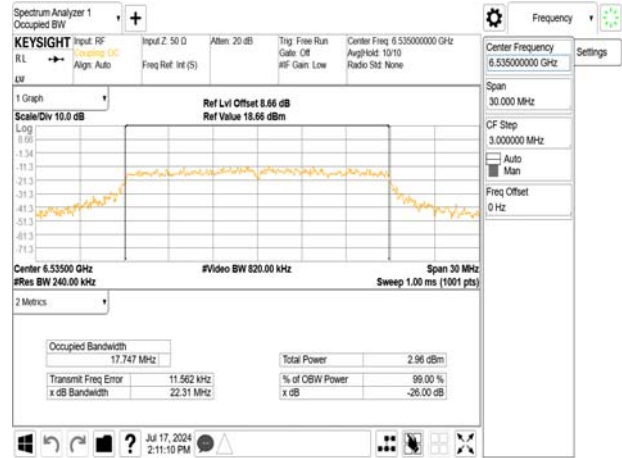
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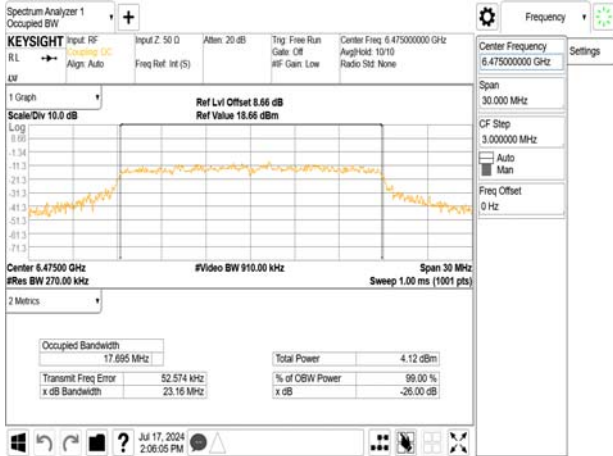
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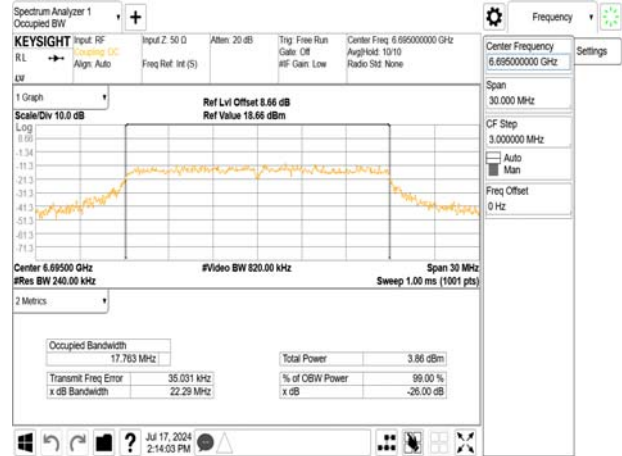
802.11n_20MHz_Chain1_6535MHz



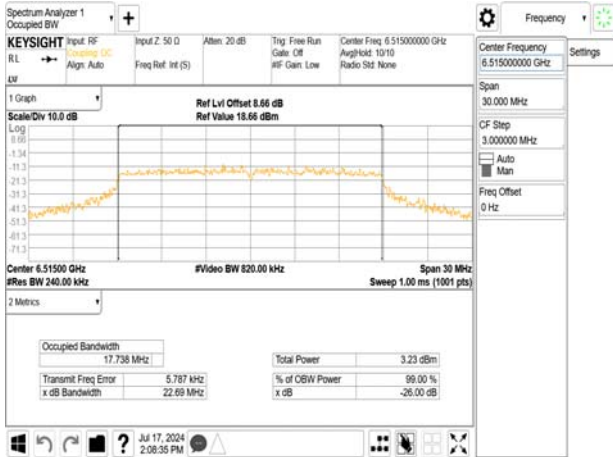
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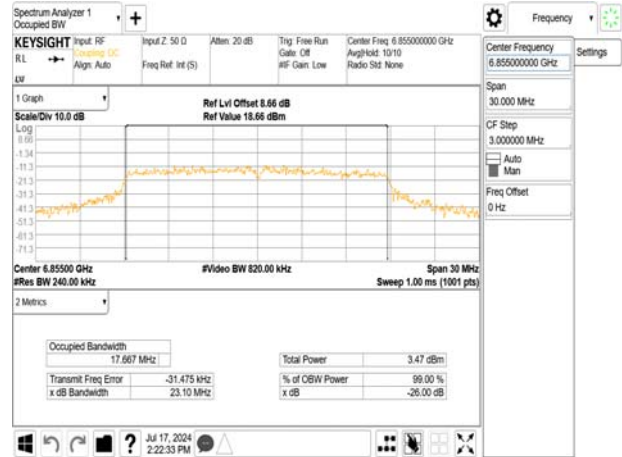
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802.11n_20MHz_Chain1_6515MHz



802.11n_20MHz_Chain1_6855MHz

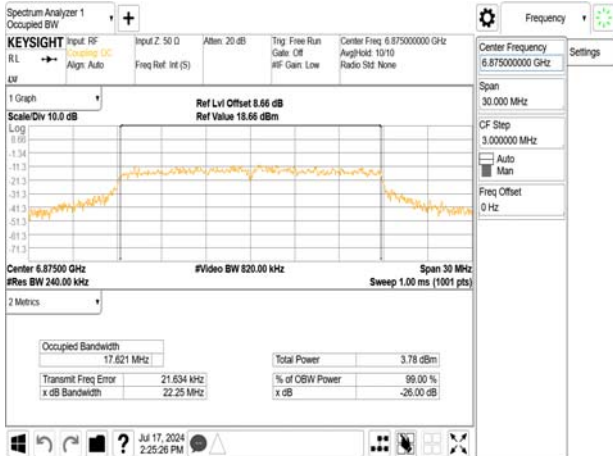


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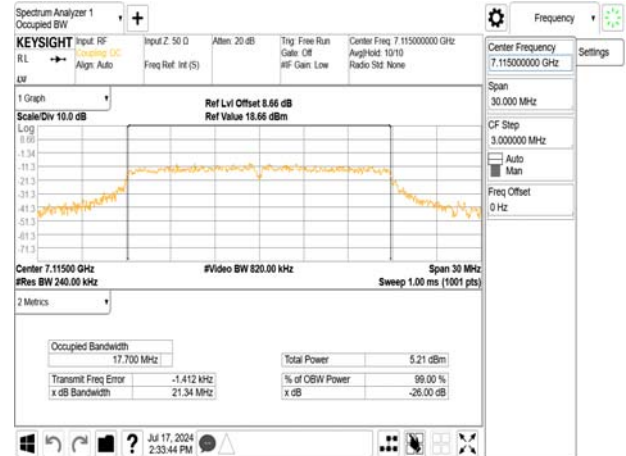
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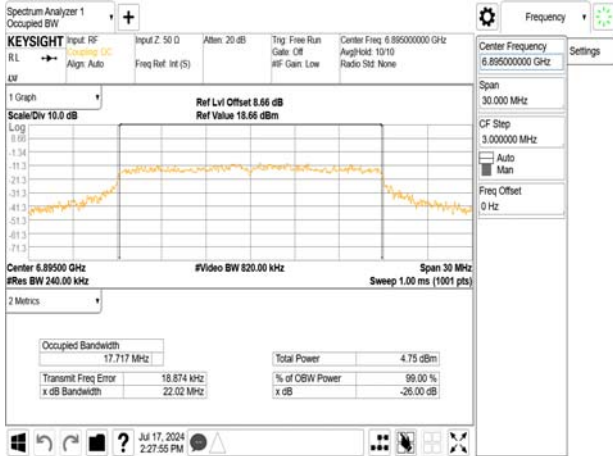
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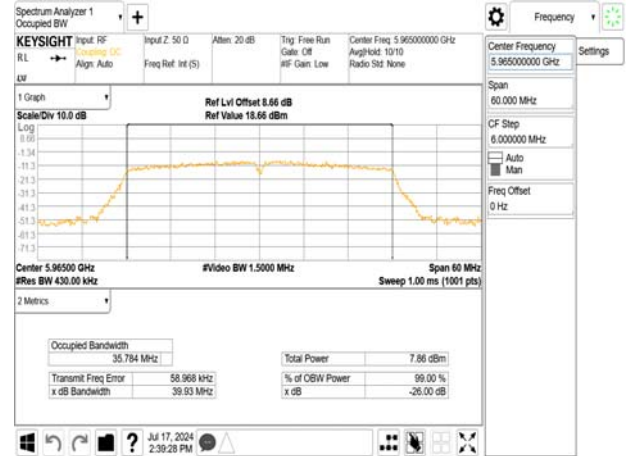
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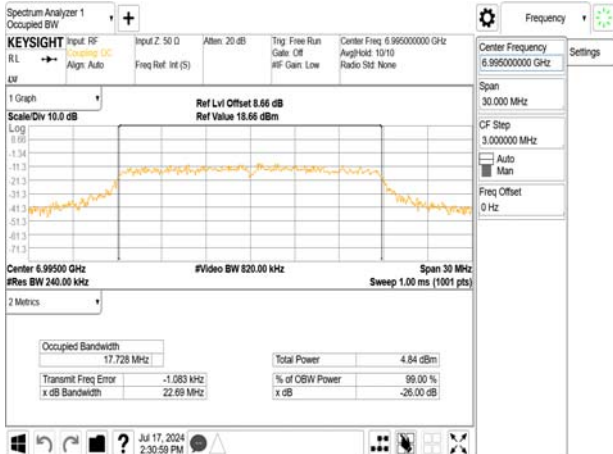
802.11n_20MHz_Chain1_6895MHz



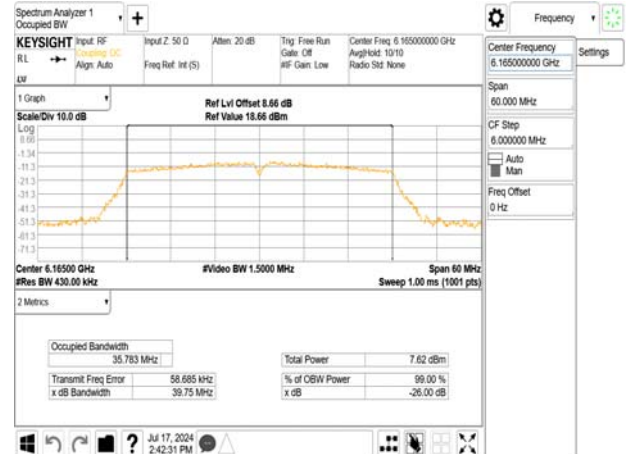
802.11n_40MHz_Chain0_5965MHz



802.11n_20MHz_Chain1_6995MHz



802.11n_40MHz_Chain0_6165MHz

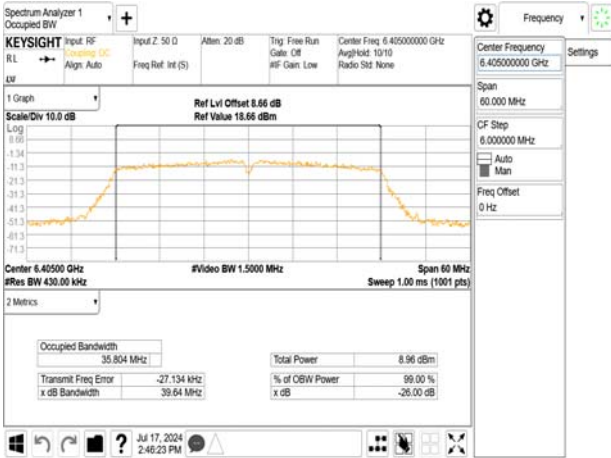


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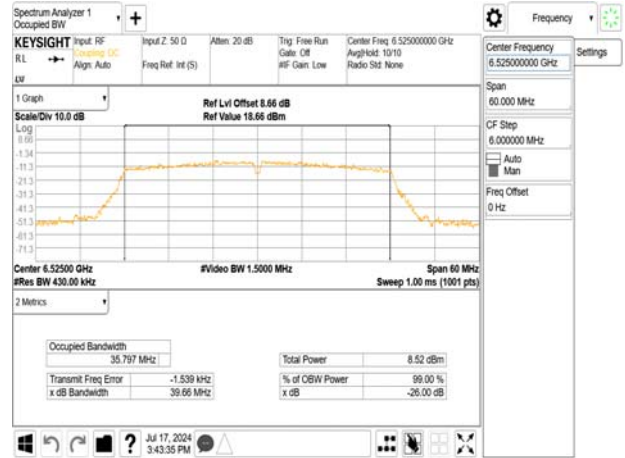
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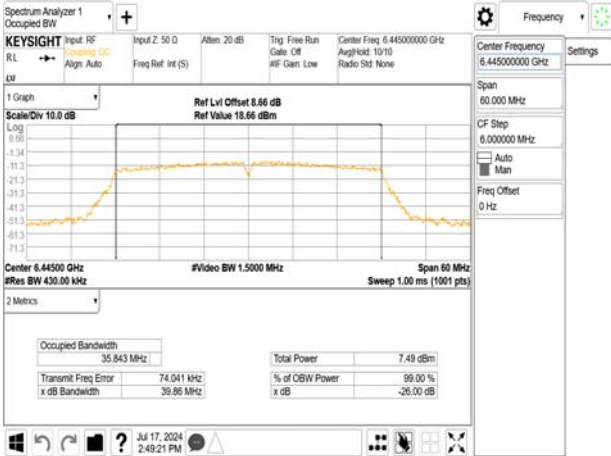
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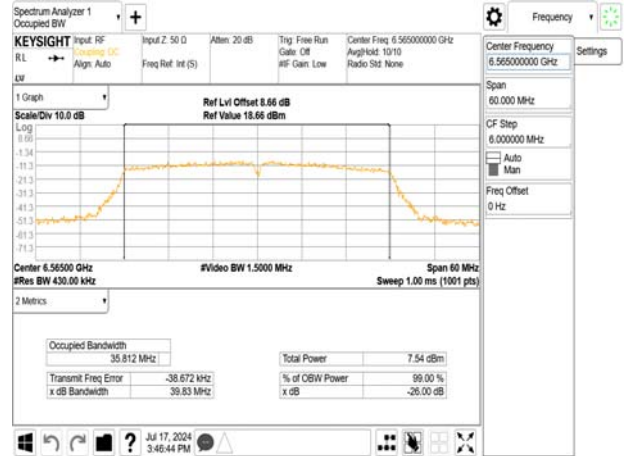
802.11n_40MHz_Chain0_6525MHz



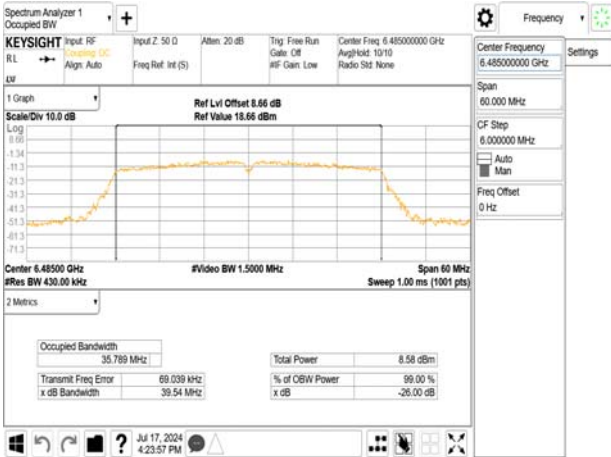
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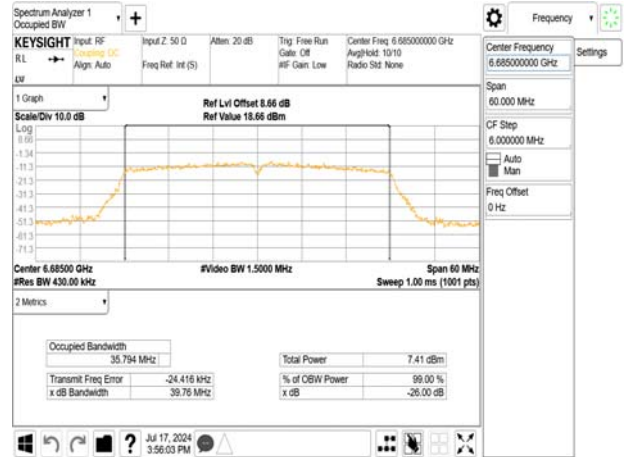
802.11n_40MHz_Chain0_6565MHz



802.11n_40MHz_Chain0_6485MHz



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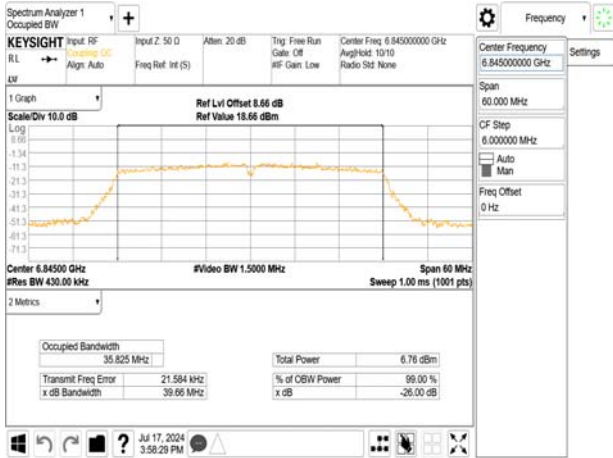


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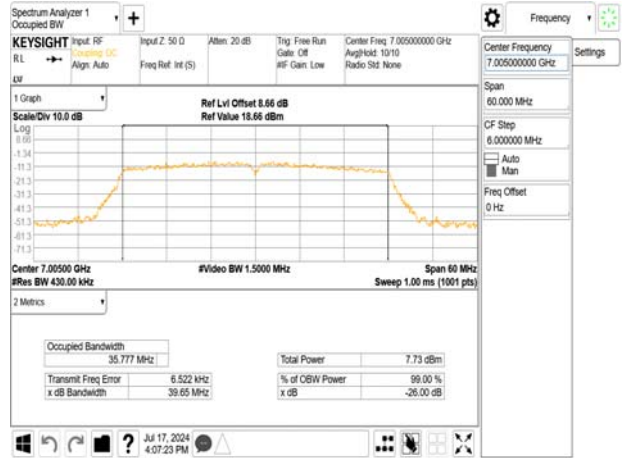
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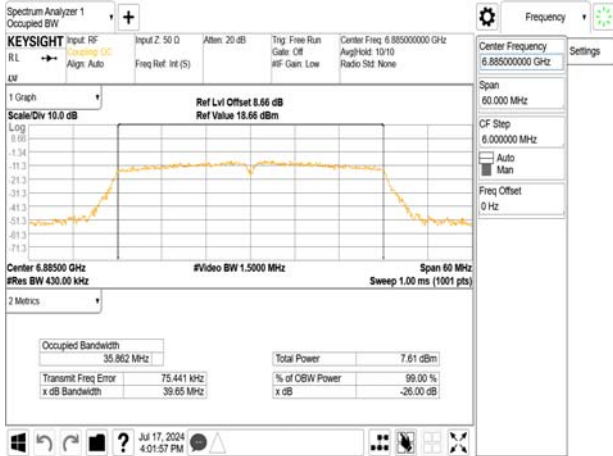
802.11n_40MHz_Chain0_6845MHz



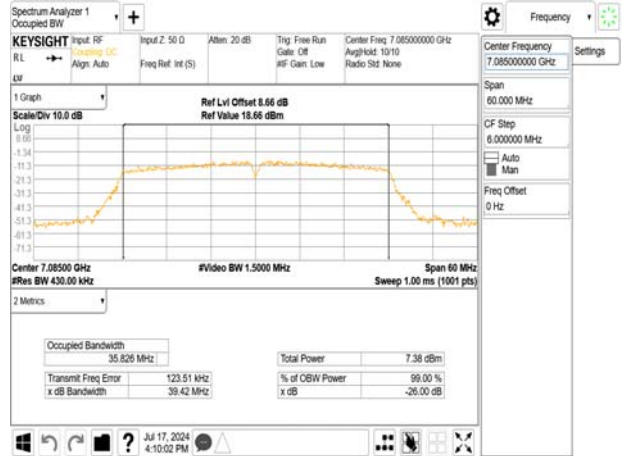
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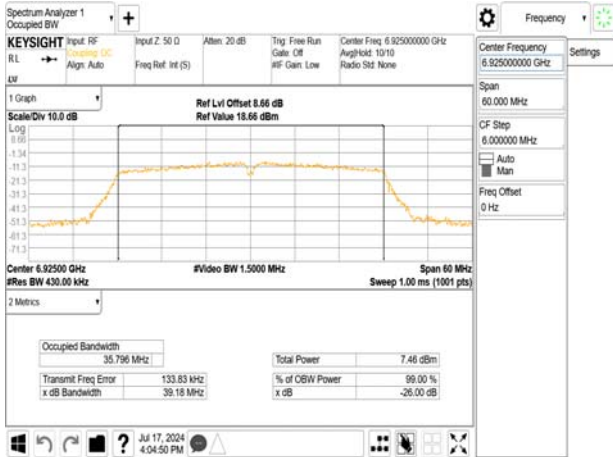
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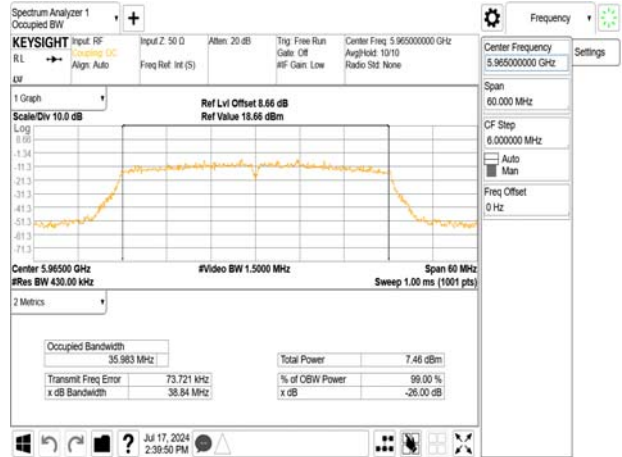
802.11n_40MHz_Chain0_7085MHz



802.11n_40MHz_Chain0_6925MHz



802.11n_40MHz_Chain1_5965MHz

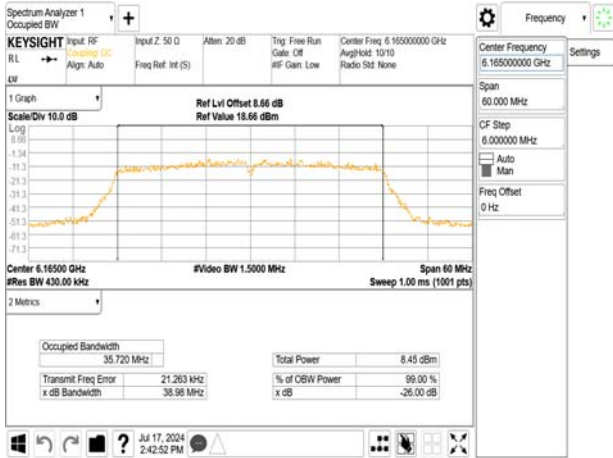


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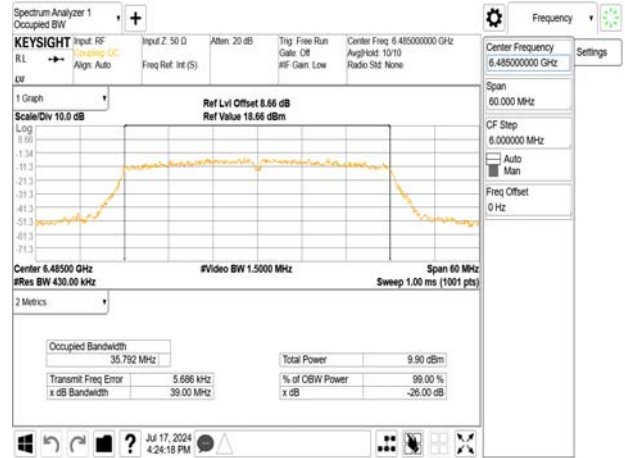
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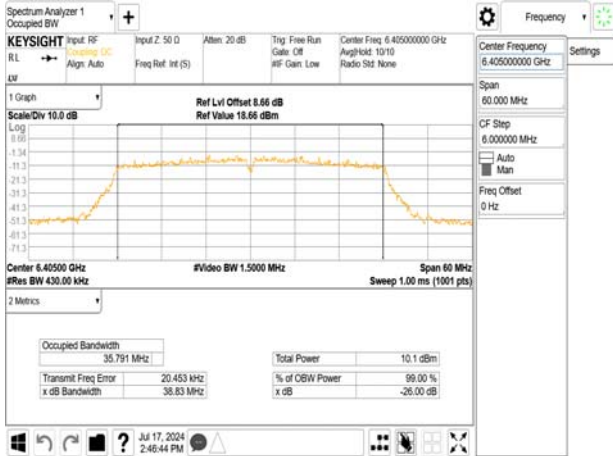
802.11n_40MHz_Chain1_6165MHz



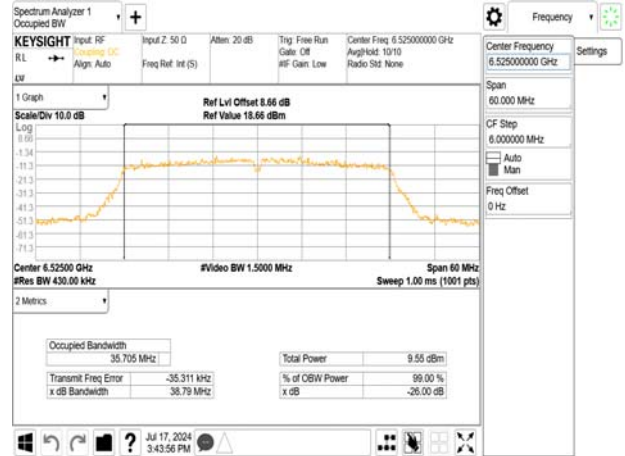
802.11n_40MHz_Chain1_6485MHz



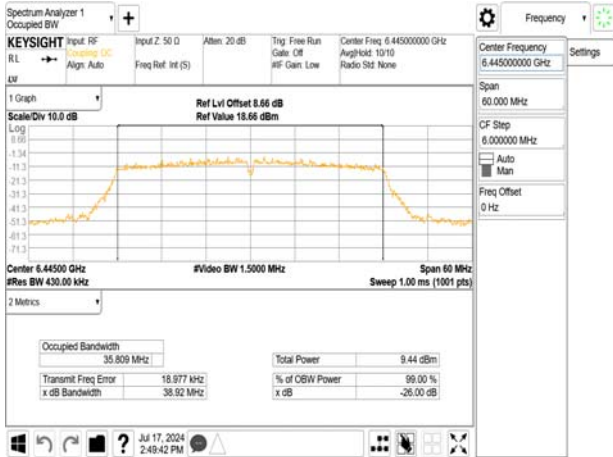
802.11n_40MHz_Chain1_6405MHz



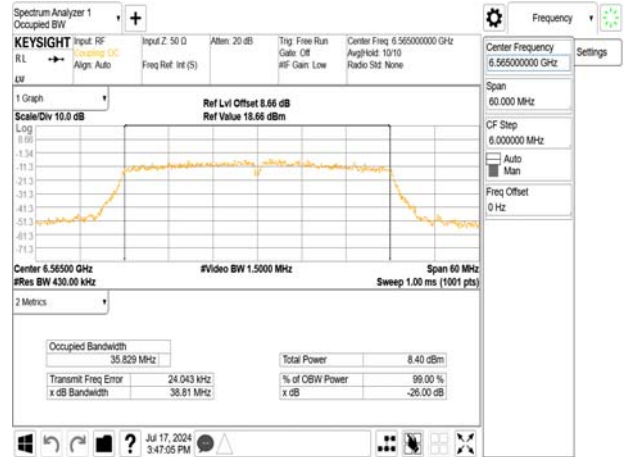
802.11n_40MHz_Chain1_6525MHz



802.11n_40MHz_Chain1_6445MHz



802.11n_40MHz_Chain1_6565MHz



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