

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
FCC Manufacturer: ASUSTeK COMPUTER INC.
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Product Name: ASUS Phone(Mobile Phone)
Brand Name: ASUS
Model No.: ASUSAI2501E
Family Model No.: ASUSAI2501D
Model Difference: Refer to section1.2
Report Number: TERF2407002111ER
FCC ID MSQAI2501
Date of EUT Received: July 01, 2024
Date of Test: July 17, 2024 ~ October 24, 2024
Issue Date: November 07, 2024

Approved By _____

Marcus Tseng

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
TERF2407002111ER	00	Original	November 07, 2024	Yuri Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	ASUS Phone(Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUSAI2501E
Family Model No.:	ASUSAI2501D
Hardware Version:	R2.0C
Firmware Version:	35.1400.1400.10
EUT Series No.:	S7AIOCN13357A9J
Power Supply:	7.8 Vdc from Battery
Test Software (Name/Version)	QRCT/4.0.1.105.1

1.2 Model Difference

Model Name	ASUSAI2501D	ASUSAI2501E
3rd Camera	5MP Macro	32 MP Tele
LED Light	mini LED (85 pcs)	mini LED (648 pcs)
Memory	12/256, 12/512, 16/512	16/512, 24/1TB
Side USB port	Y	
Air trigger	Y	
Power	5800mAh, 65W	
Refresh Rate	185Hz	

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1.3 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
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
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
	802.11ac_VHT160: up to 1733.4 Mbps
	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps
	802.11ax_HE160: up to 2402 Mbps
	802.11be_EHT20: up to 344.1 Mbps
	802.11be_EHT40: up to 688.2 Mbps
	802.11be_EHT80: up to 1441.2 Mbps
	802.11be_EHT160: up to 2882.4 Mbps
	802.11be_EHT320: up to 5764.8 Mbps

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1.4 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ANT4	5925~6425	-4.7
		6425~6525	-4.59
		6525~6875	-3.88
		6875~7125	-4.41
	ANT5	5925~6425	-4.64
		6425~6525	-7.9
		6525~6875	-4.96
		6875~7125	-4.47

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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1.5 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	8.57 dBm
	6435~6515	5	7.73 dBm
	6535~6875	18	9.20 dBm
	6895~7095	11	7.77 dBm
802.11n_HT40/ 802.11ac_VHT40	5965~6405	12	10.85 dBm
	6445~6525	3	9.85 dBm
	6565~6845	8	11.47 dBm
	6885~7085	6	10.04 dBm
802.11ac_VHT80	5985~6385	6	13.70 dBm
	6465	1	12.54 dBm
	6545~6865	5	14.26 dBm
	6945~7025	2	13.22 dBm
802.11ac_VHT160	6025~6345	3	16.10 dBm
	6505	1	13.17 dBm
	6665~6825	2	15.83 dBm
	6985	1	15.40 dBm

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WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20/ 802.11be_EHT20	5955~6415	24	8.63 dBm
	6435~6515	5	7.78 dBm
	6535~6875	18	9.28 dBm
	6895~7095	11	7.85 dBm
802.11ax_HE40/ 802.11be_EHT40	5965~6405	12	10.89 dBm
	6445~6525	3	9.89 dBm
	6565~6845	8	11.53 dBm
	6885~7085	6	10.06 dBm
802.11ax_HE80/ 802.11be_EHT80	5985~6385	6	13.73 dBm
	6465	1	12.58 dBm
	6545~6865	5	14.30 dBm
	6945~7025	2	13.25 dBm
802.11ax_HE160/ 802.11be_EHT160	6025~6345	3	16.15 dBm
	6505	1	13.18 dBm
	6665~6825	2	15.87 dBm
	6985	1	15.45 dBm
802.11be_EHT320	6105~6265	3	16.43 dBm
	6425	1	12.85 dBm
	6585~6745	2	15.60 dBm
	6905	1	13.21 dBm

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1.6 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

1.7 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	
		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.

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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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

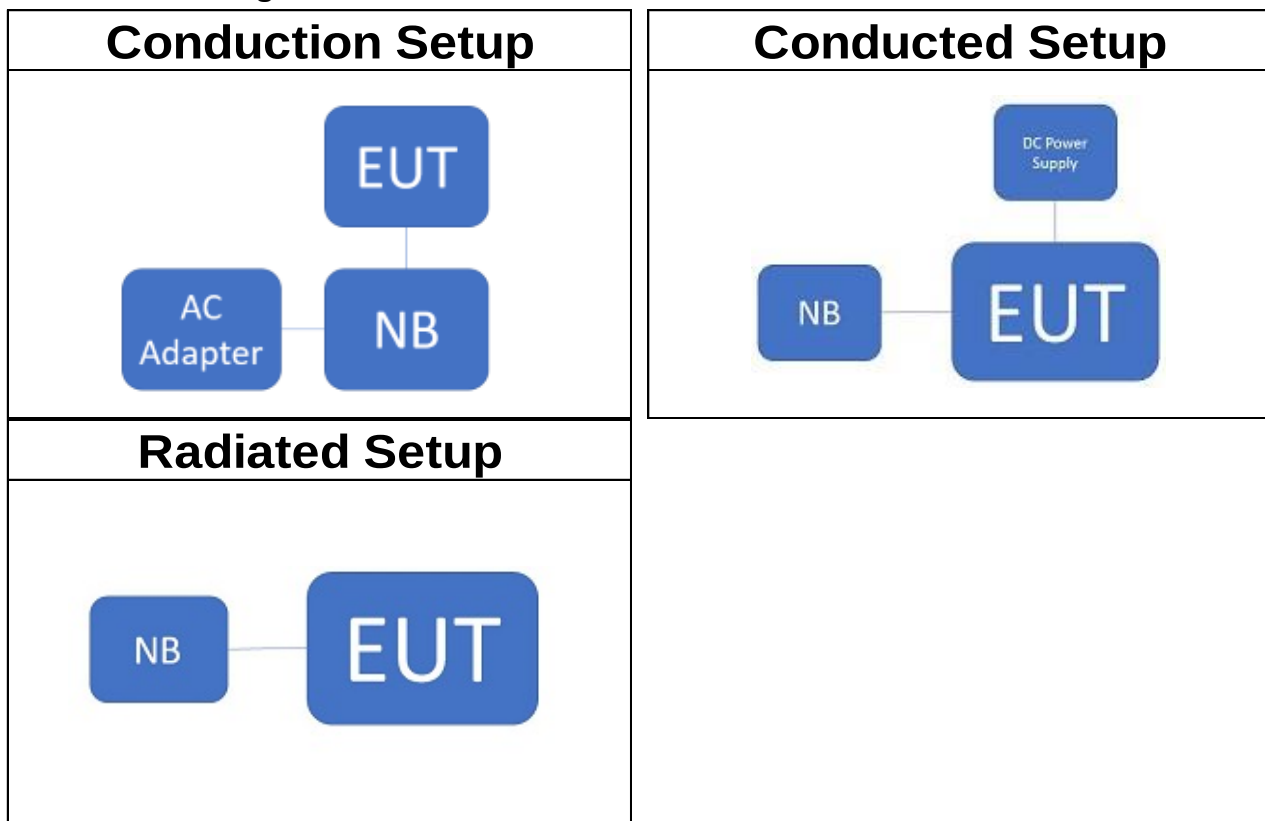
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A
AC Adapter	Lenovo	ADLX45YCC3A	N/A	N/A	N/A
Type-C to USB Cable	Xiaomi	SJX10ZM	N/A	N/A	N/A

2.6.2 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Type-C to USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A

2.6.3 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A
Type-C to USB Cable	Xiaomi	SJX10ZM	N/A	N/A	N/A

2.6.4 CBP Setup

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Access Point	Netgear	RS700	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		160MHz	
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
5	5975	53	6215	11	6005	23	6065	47	6185
9	5995	57	6235	19	6045	39	6145	79	6345
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		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	103	6465	111	6505
101	6455	107	6485				
105	6475	115	6525				
109	6495						
113	6515						

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz		160MHz	
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
121	6555	157	6735	131	6605	135	6625	175	6825
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		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	199	6945	207	6985
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						

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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
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3	1TX	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.

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CONDUCTED TEST							
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				
	6895~7095	189 to 229	189,209,229				
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				
	6895~7095	189 to 229	189,209,229				
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				
802.11ac_VHT160	6025~6345	15 to 79	15,47,79	OFDM	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 CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7095	189 to 229	189,209,229				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU	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	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	MRU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7095	189 to 229	189,209,229				
802.11be_EHT40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU	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				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU SU_Punct20_Mid2 RU484+242_Punc20	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67 SU_Punct20_Mid3,SU_Punct20_High SU_Punct40_Mid2,SU_Punct40_High RU996+484_Punc40 996+484 MRU4	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU RU996x2+484_Punc40, 2*996+484 MRU6, 3*996 MRU4, 3*996+484 MRU8	MCS0	2TX
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				
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				

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	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				
802.11be_EHT40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU	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				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU SU_Punct20_Mid2, RU484+242_Punc2 0	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67, 996+484MRU4, SU_Punct20_Mid3, SU_Punct40_Mid2, SU_Punct20_High, SU_Punct40_High, RU996+484_Punc4 0	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU RU996x2+484_Punc40, 3*996 MRU4, 2*996+484MRU6, 3*996+484MRU8	MCS0	2TX
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/06/2023	09/05/2024
LISN	SCHWARZBECK	NSLK 8127	1041	10/26/2023	10/25/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Mini-Circuits	BW-S10W2+	1	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	10	12/12/2023	12/11/2024
DC Power Supply	Agilent	E3640A	MY52410006	01/02/2024	01/01/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/04/2024	06/03/2025
Power Meter	Anritsu	ML2496A	1804001	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726104	04/16/2024	04/15/2025
Power Sensor	Anritsu	MA2411B	1726107	04/16/2024	04/15/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	Mini-Circuits	BLK-18-S+	4	12/12/2023	12/11/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/25/2024	06/24/2025
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/05/2024	03/04/2025
Manual Attenuator	HP	8494B	2812A17605+3308A 22470	12/12/2023	12/11/2024
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/05/2024	03/04/2025
Splitter	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-020	12/12/2023	12/11/2024
Splitter	RF-LAMBDA	RFLT4W1G18G	SPCD10-010	12/12/2023	12/11/2024
Splitter	Titan	T0510E4W118Q	22015177	12/12/2023	12/11/2024
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
8.5G High Pass Filter	Titan	T04H85002500060S01	210519-2-7	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/12/2023	12/11/2024
Band Reject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/12/2023	12/11/2024
Band Reject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/12/2023	12/11/2024
Band Reject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/12/2023	12/11/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000 +SUOCOFLEX 104PEA +EMC107-SM-SM-1500 +SUOCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUOCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000+EMC107-SM-SM-1500+EMC107-SM-SM-8000+SUOCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+221212+MY4251/4PEA)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUOCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/31/2023	08/30/2024
EMI Test Receiver	R&S	ESR 7	102525	02/17/2024	02/16/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2023	09/22/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/04/2023	12/03/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045B	980135	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	HP	8447D	2944A07676	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/31/2023	08/30/2024
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/31/2023	08/30/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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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

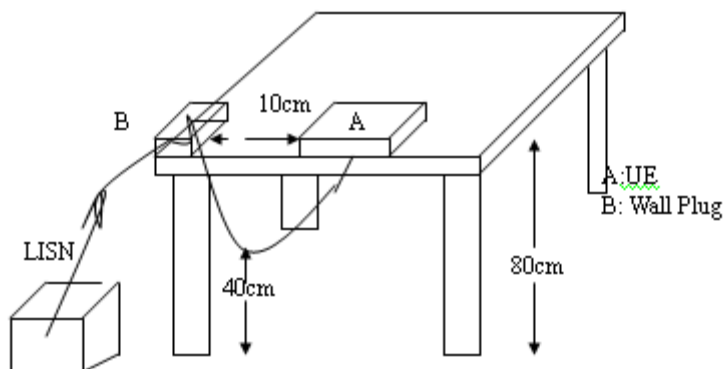
Note

- 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



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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 :TERF2407002111ER

Test Site :Conduction 1

Operation Mode :WLAN 6E

Test Date :2024-09-04

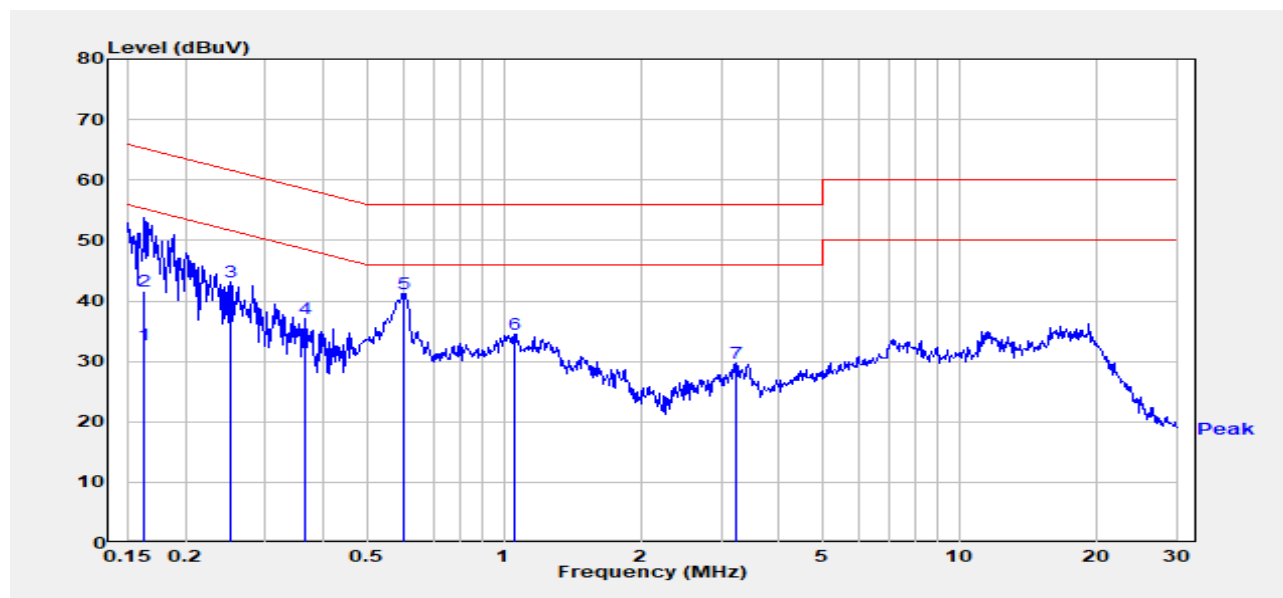
Power :120V/60Hz

Temp./Humi. :23.7°C/64%

Probe :L

Engineer :Nick Lin

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.162	Average	22.70	10.13	32.83	55.34	-22.51
0.162	QP	31.60	10.13	41.73	65.34	-23.61
0.251	Peak	33.01	10.14	43.15	61.73	-18.58
0.365	Peak	27.03	10.15	37.18	58.61	-21.43
0.604	Peak	31.13	10.17	41.30	56.00	-14.70
1.060	Peak	24.33	10.20	34.52	56.00	-21.48
3.241	Peak	19.41	10.26	29.68	56.00	-26.32

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Report Number :TERF2407002111ER

Operation Mode :WLAN 6E

Power :120V/60Hz

Probe :N

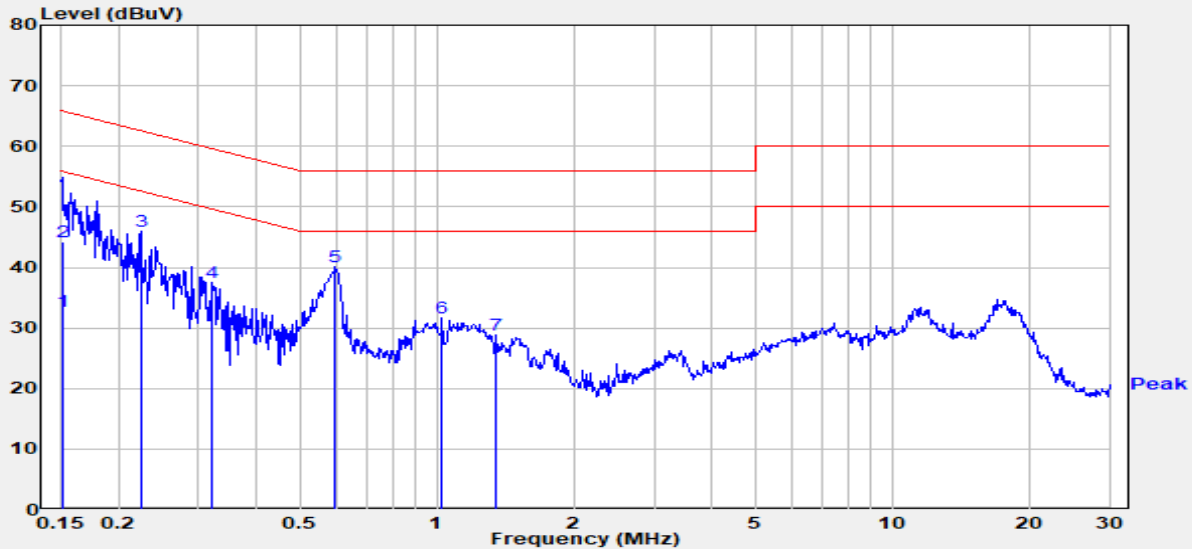
Note: :

Test Site :Conduction 1

Test Date :2024-09-04

Temp./Humi. :23.7°C/64%

Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	22.70	10.12	32.82	55.96	-23.14
0.151	QP	34.20	10.12	44.32	65.96	-21.64
0.224	Peak	35.87	10.13	45.99	62.66	-16.66
0.322	Peak	27.34	10.14	37.48	59.66	-22.19
0.598	Peak	30.03	10.17	40.20	56.00	-15.80
1.027	Peak	21.50	10.19	31.69	56.00	-24.31
1.352	Peak	18.57	10.19	28.76	56.00	-27.24

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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.

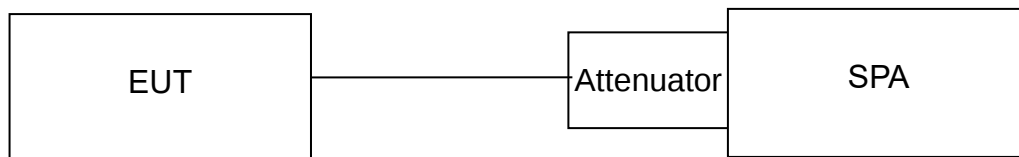
8.2 Measurement Procedure

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	16.634	20.59
45	6175	16.695	21.88
93	6415	16.675	21.60
97	6435	16.661	21.32
105	6475	16.683	21.44
113	6515	16.666	21.78
117	6535	16.645	21.26
149	6695	16.687	21.41
181	6855	16.682	21.42
185	6875(U-NII 7)	8.376	10.91
185	6875(U-NII 8)	8.376	10.91
189	6895	16.715	21.37
209	6995	16.718	21.34
233	7115	16.665	21.63

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802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.649	20.81
45	6175	16.653	20.89
93	6415	16.643	21.23
97	6435	16.628	20.65
105	6475	16.651	21.29
113	6515	16.625	21.28
117	6535	16.614	21.18
149	6695	16.627	21.31
181	6855	16.648	20.65
185	6875(U-NII 7)	8.301	10.44
185	6875(U-NII 8)	8.301	10.44
189	6895	16.629	21.45
209	6995	16.636	21.42
233	7115	16.624	21.45

802.11be_EHT20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	18.982	21.86
45	6175	19.134	21.92
93	6415	19.051	21.63
97	6435	19.087	20.67
105	6475	18.971	22.27
113	6515	19.012	22.20
117	6535	19.032	22.06
149	6695	19.151	21.99
181	6855	19.114	21.98
185	6875(U-NII 7)	9.496	10.99
185	6875(U-NII 8)	9.496	10.99
189	6895	19.041	21.20
209	6995	19.103	21.56
233	7115	19.058	23.49

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802.11be_EHT20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	19.045	21.86
45	6175	19.077	21.90
93	6415	19.092	21.50
97	6435	18.990	21.76
105	6475	19.053	21.46
113	6515	18.979	21.54
117	6535	19.086	21.27
149	6695	18.982	21.93
181	6855	19.033	22.48
185	6875(U-NII 7)	9.520	10.97
185	6875(U-NII 8)	9.520	10.97
189	6895	19.104	21.83
209	6995	18.993	21.65
233	7115	19.065	22.78

802.11be_EHT40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.892	42.75
43	6165	37.937	42.22
91	6405	37.963	42.35
99	6445	37.973	42.01
107	6485	37.980	42.63
115	6525(U-NII 6)	18.977	21.25
115	6525(U-NII 7)	18.977	21.25
123	6565	37.927	42.25
147	6685	37.906	42.67
179	6845	37.962	42.01
187	6885(U-NII 7)	8.990	11.13
187	6885(U-NII 8)	28.990	31.13
195	6925	37.919	42.46
211	7005	37.928	41.89
227	7085	37.892	42.46

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802.11be_EHT40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.963	42.99
43	6165	37.881	41.74
91	6405	37.930	42.56
99	6445	37.909	42.03
107	6485	37.974	42.68
115	6525(U-NII 6)	18.974	20.95
115	6525(U-NII 7)	18.974	20.95
123	6565	38.005	41.93
147	6685	38.001	42.54
179	6845	37.993	42.59
187	6885(U-NII 7)	8.977	10.96
187	6885(U-NII 8)	28.977	30.96
195	6925	37.932	41.60
211	7005	38.025	42.20
227	7085	38.038	42.58

802.11be_EHT80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.556	86.77
39	6145	77.522	84.44
87	6385	77.623	87.27
103	6465	77.751	84.66
119	6545(U-NII 6)	18.803	22.81
119	6545(U-NII 7)	58.803	62.81
135	6625	77.676	85.56
151	6705	77.726	87.78
167	6785	77.721	85.39
183	6865(U-NII 7)	48.830	53.78
183	6865(U-NII 8)	28.830	33.78
199	6945	77.514	85.88
215	7025	77.647	86.02

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802.11be_EHT80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.635	85.77
39	6145	77.520	86.30
87	6385	77.463	85.72
103	6465	77.609	85.47
119	6545(U-NII 6)	18.776	22.77
119	6545(U-NII 7)	58.776	62.77
135	6625	77.777	85.13
151	6705	77.772	87.57
167	6785	77.589	83.23
183	6865(U-NII 7)	48.829	53.36
183	6865(U-NII 8)	28.829	33.36
199	6945	77.623	85.03
215	7025	77.546	87.44

802.11be_EHT160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.83	170.2
47	6185	157.31	168.0
79	6345	156.94	171.9
111	6505(U-NII 6)	98.59	105.8
111	6505(U-NII 7)	58.59	65.8
143	6665	157.15	176.5
175	6825(U-NII 7)	128.63	136.1
175	6825(U-NII 8)	28.63	36.1
207	6985	157.17	170.8

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802.11be_EHT160_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.92	169.6
47	6185	157.03	171.6
79	6345	156.88	172.8
111	6505(U-NII 6)	98.91	106.8
111	6505(U-NII 7)	58.91	66.8
143	6665	157.53	171.8
175	6825(U-NII 7)	128.73	135.8
175	6825(U-NII 8)	28.73	35.8
207	6985	156.44	168.4

802.11be_EHT320_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	316.81	346.9
63	6185	317.45	346.6
95	6425(U-NII 5)	158.09	172.0
95	6425(U-NII 6)	100.00	100.0
95	6425(U-NII 7)	58.09	72.0
127	6585(U-NII 6)	98.14	111.3
127	6585(U-NII 7)	218.14	231.3
159	6745(U-NII 7)	288.29	302.4
159	6745(U-NII 8)	28.29	42.4
191	6905(U-NII 7)	128.50	143.2
191	6905(U-NII 8)	188.50	203.2

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802.11be_EHT320_Ch1

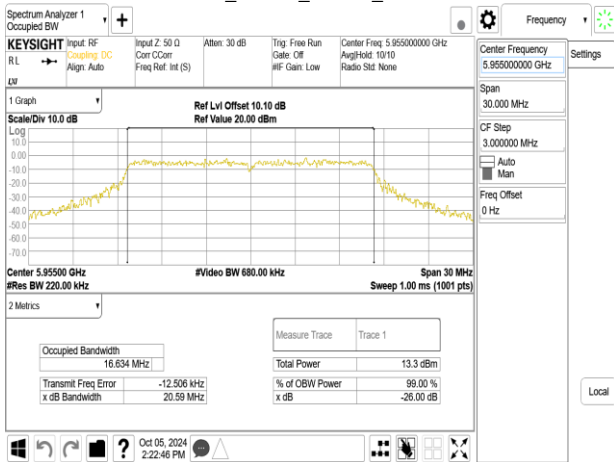
CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	315.67	342.2
63	6185	315.99	342.7
95	6425(U-NII 5)	158.06	172.6
95	6425(U-NII 6)	100.00	100.0
95	6425(U-NII 7)	58.06	72.6
127	6585(U-NII 6)	98.34	109.8
127	6585(U-NII 7)	218.34	229.8
159	6745(U-NII 7)	288.60	300.8
159	6745(U-NII 8)	28.60	40.8
191	6905(U-NII 7)	128.44	145.1
191	6905(U-NII 8)	188.44	205.1

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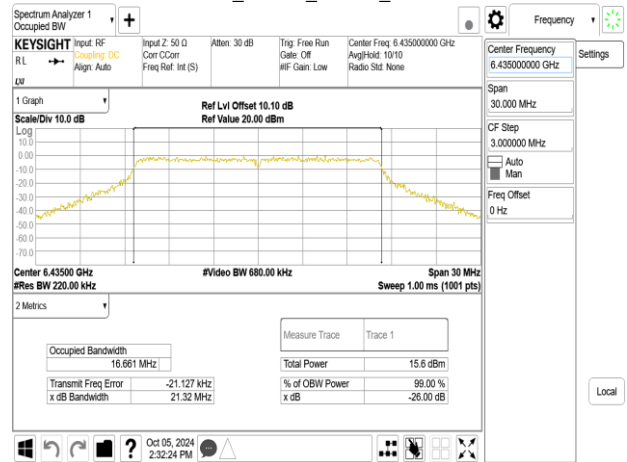
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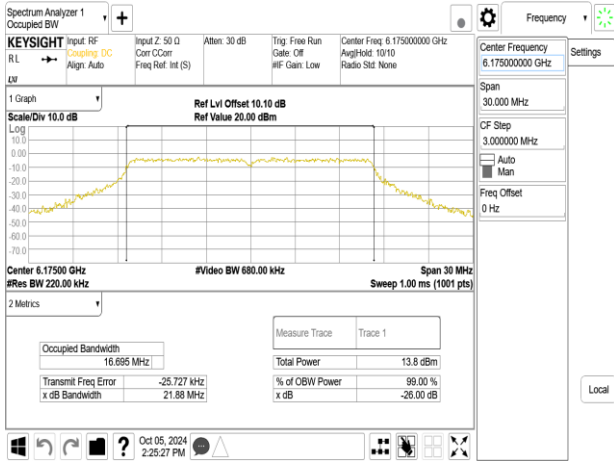
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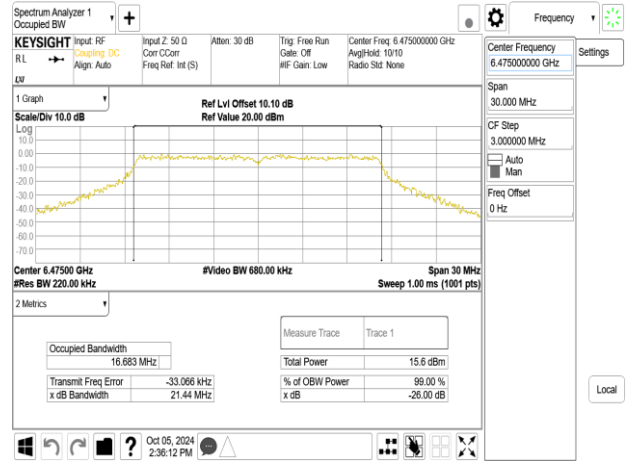
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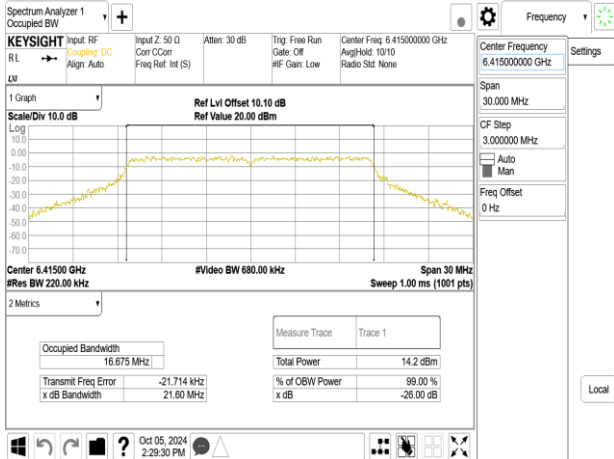
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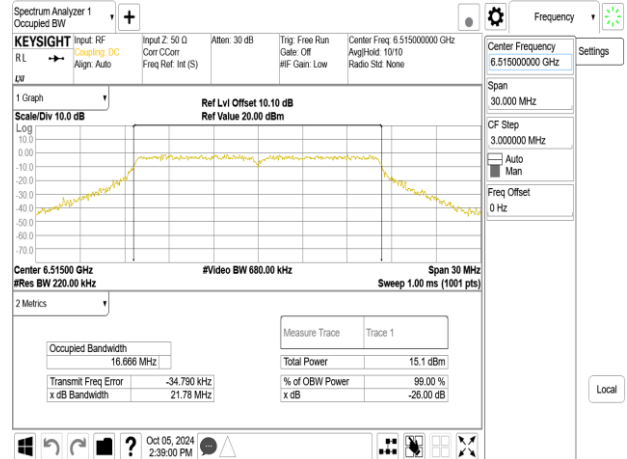
802.11a_20MHz_Chain0_6475MHz



802.11a_20MHz_Chain0_6415MHz



802.11a_20MHz_Chain0_6515MHz

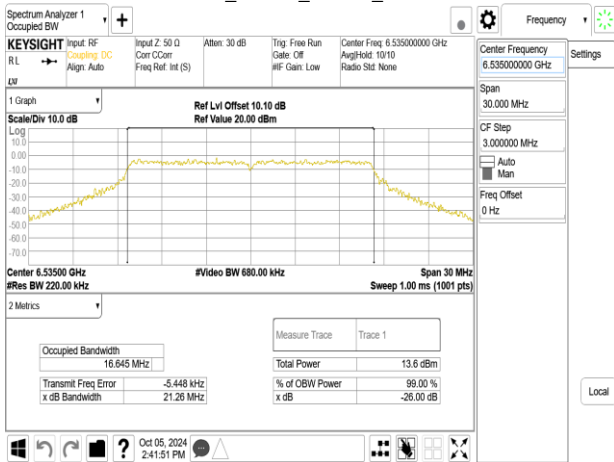


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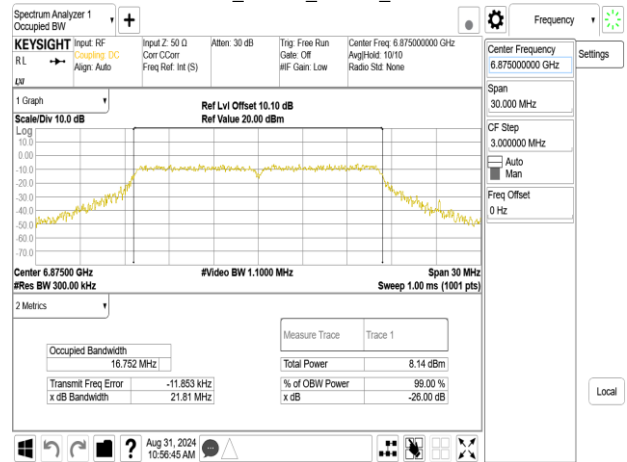
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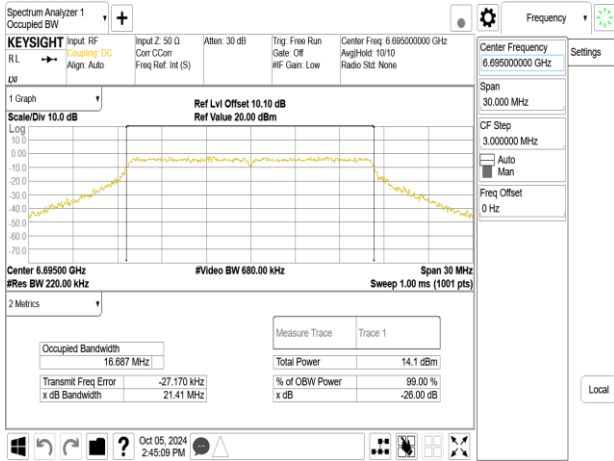
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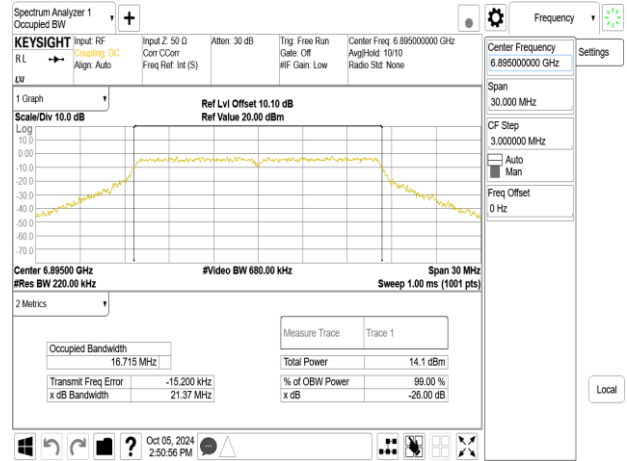
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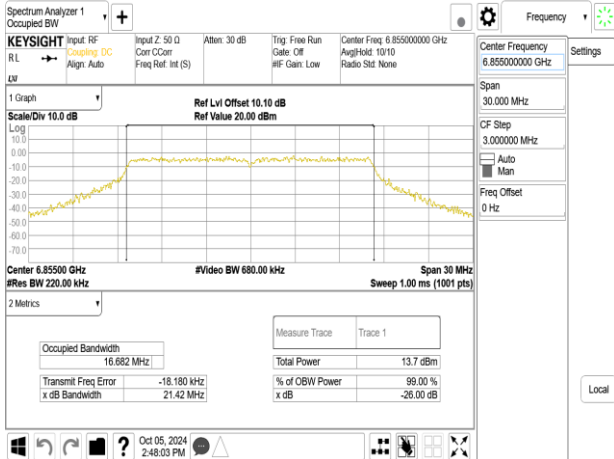
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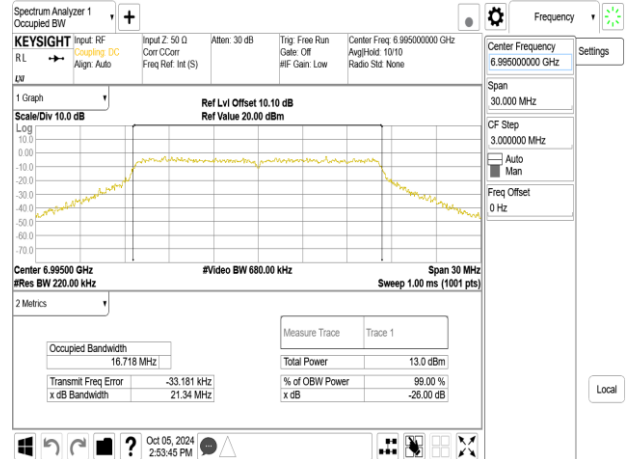
802.11a_20MHz_Chain0_6895MHz



802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6995MHz

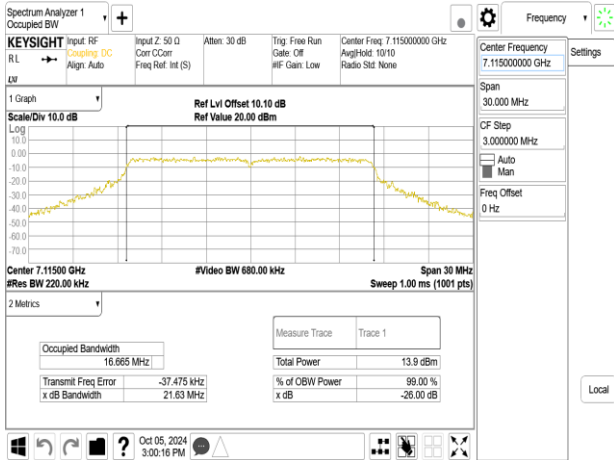


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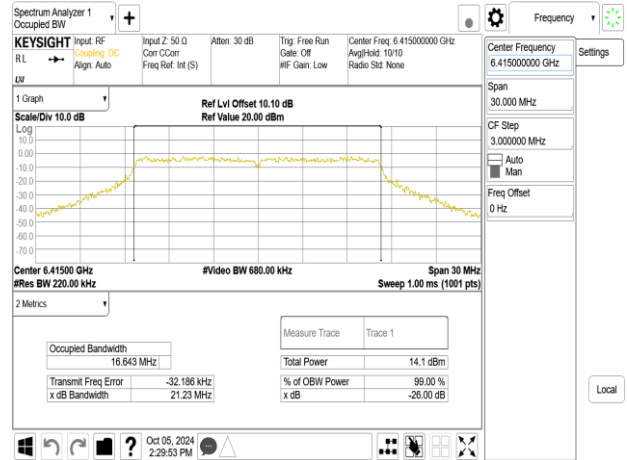
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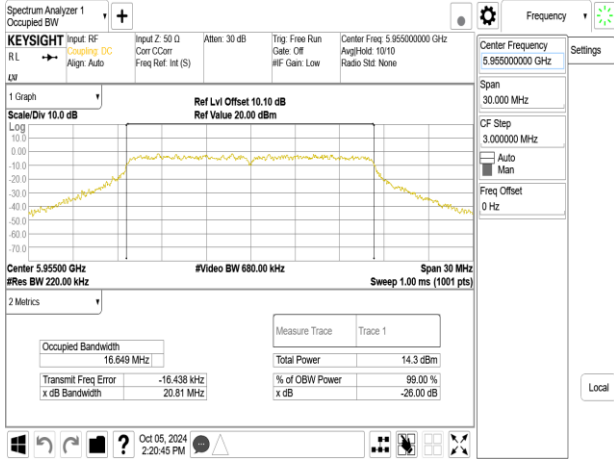
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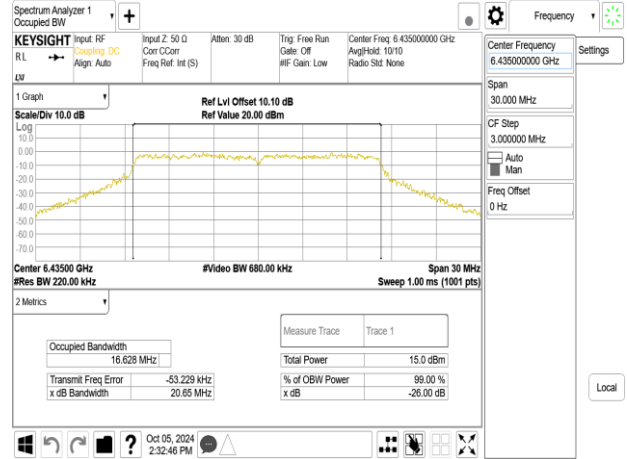
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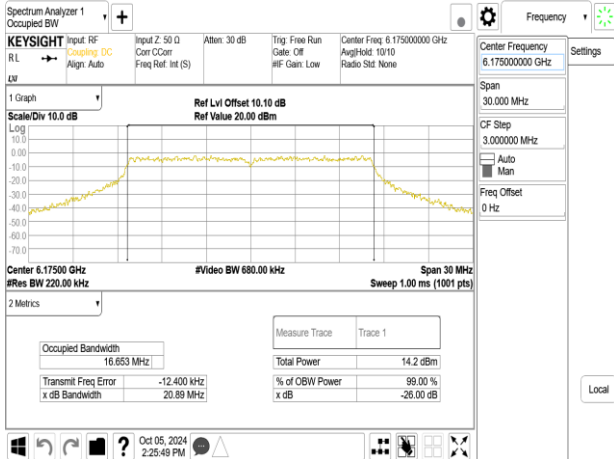
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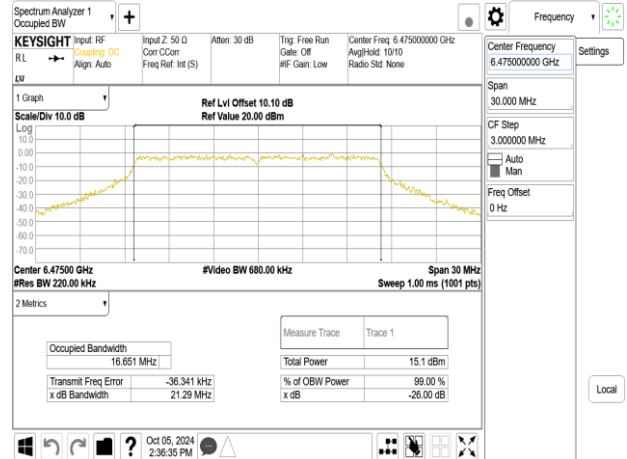
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802.11a_20MHz_Chain1_6175MHz



802.11a_20MHz_Chain1_6475MHz

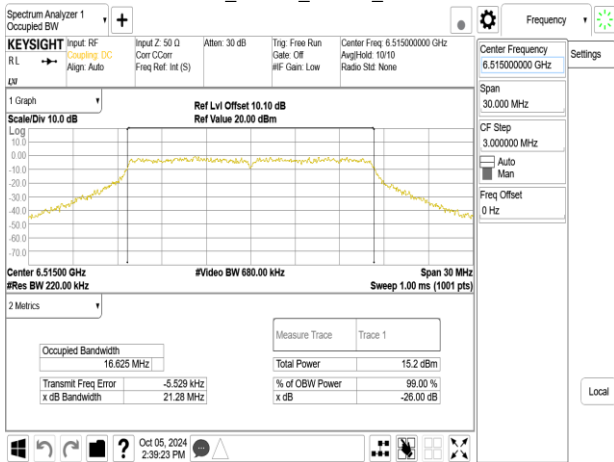


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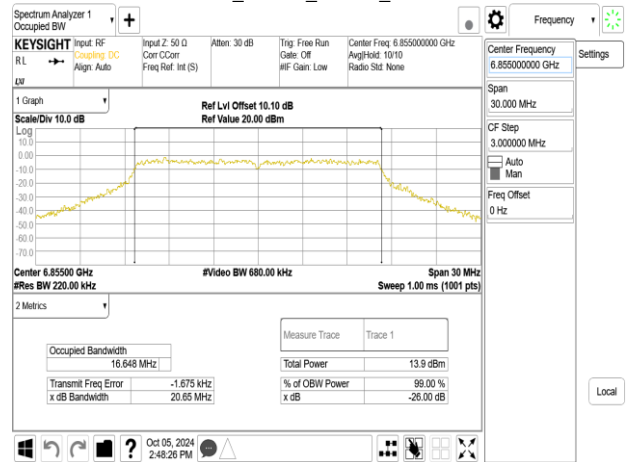
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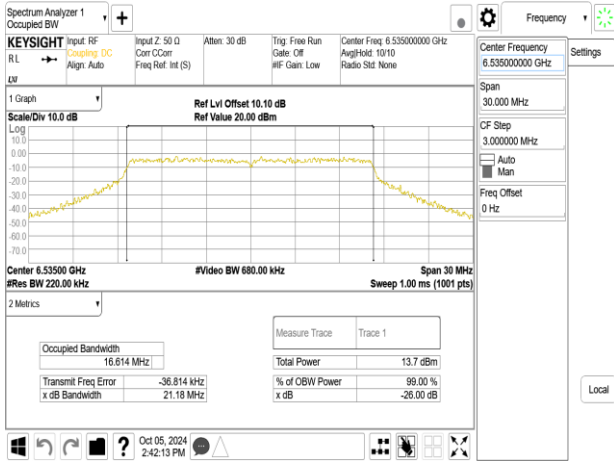
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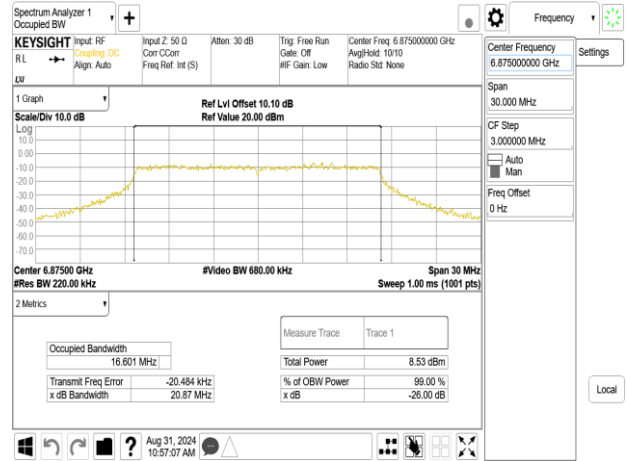
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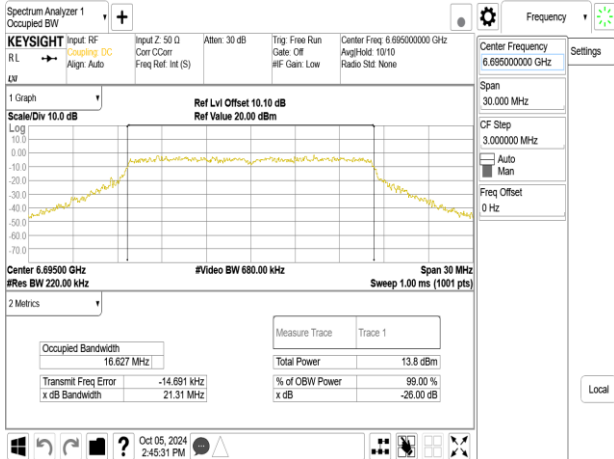
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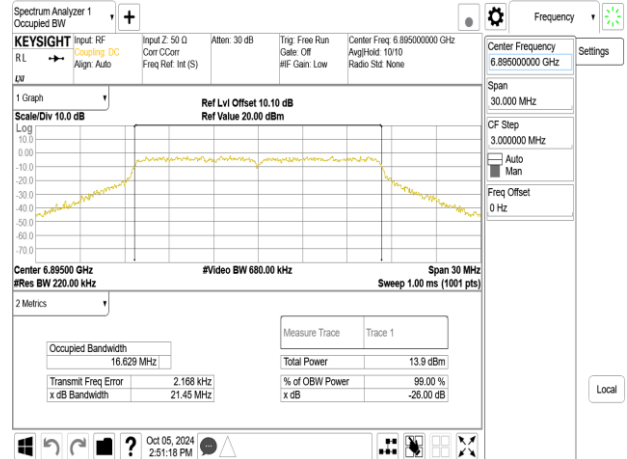
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802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6895MHz

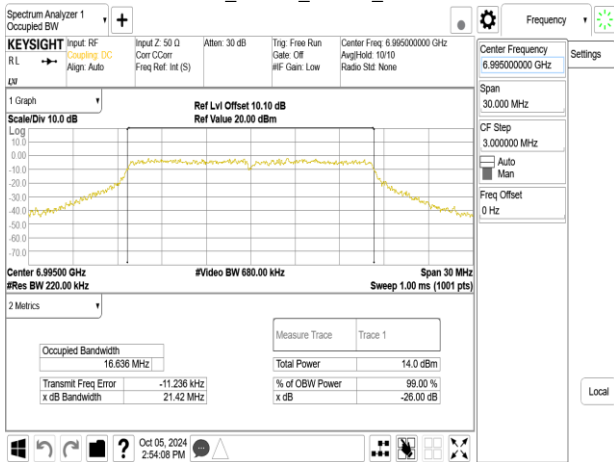


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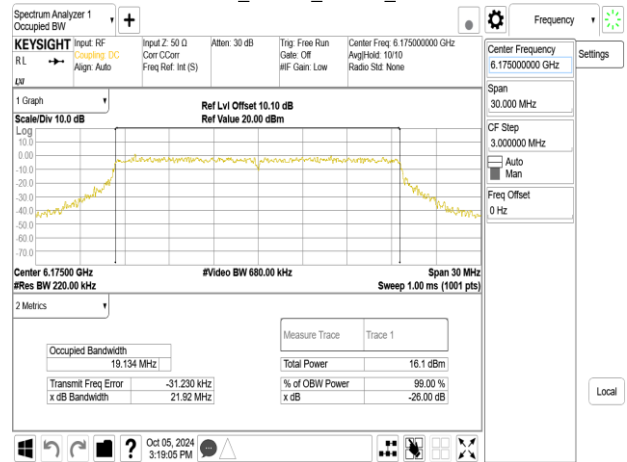
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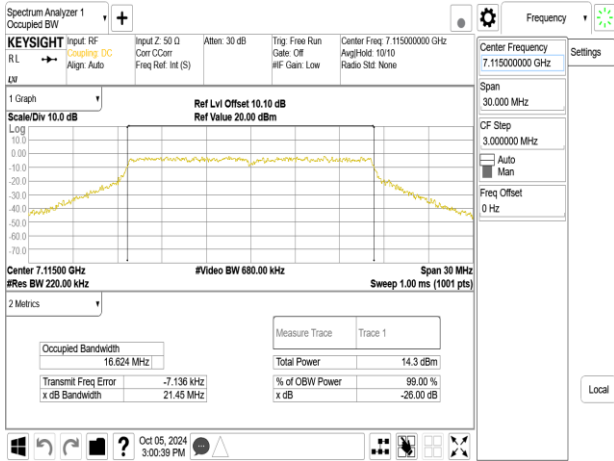
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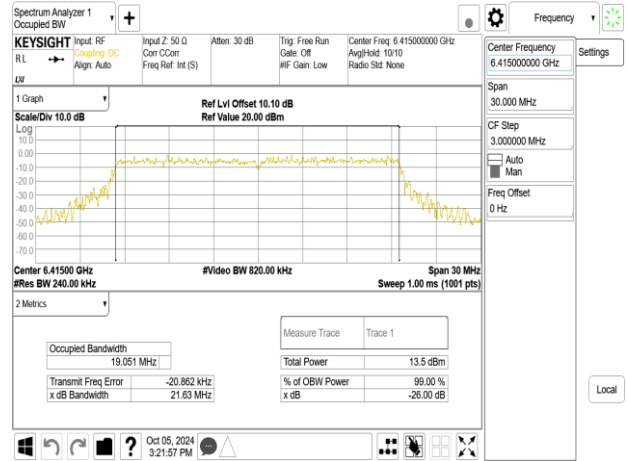
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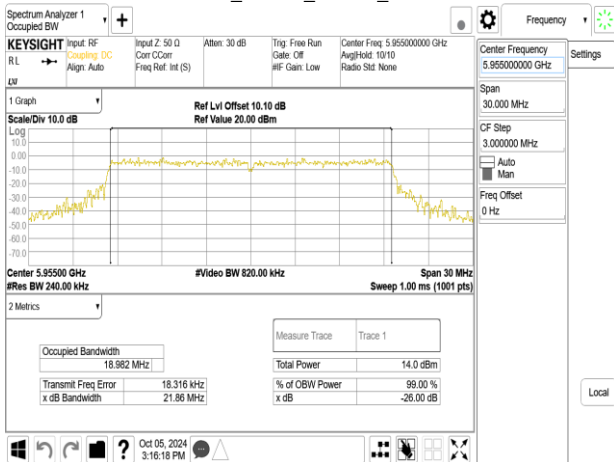
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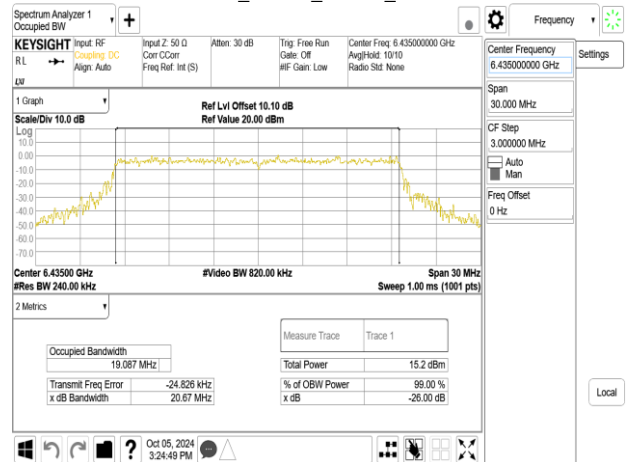
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802.11be_20MHz_Chain0_5955MHz



802.11be_20MHz_Chain0_6435MHz

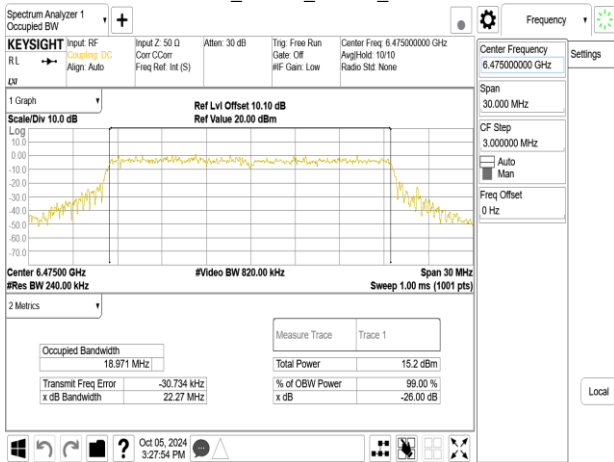


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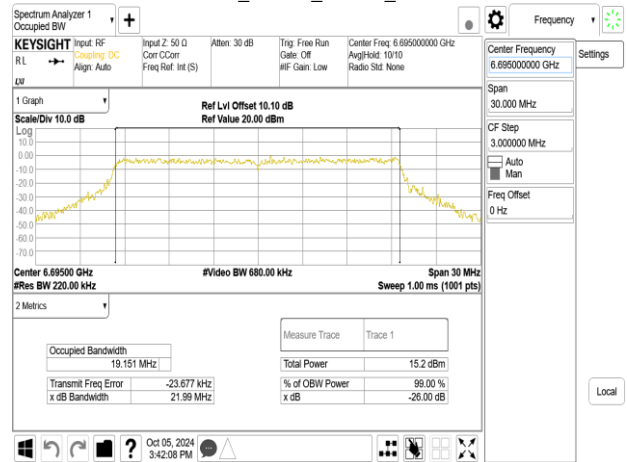
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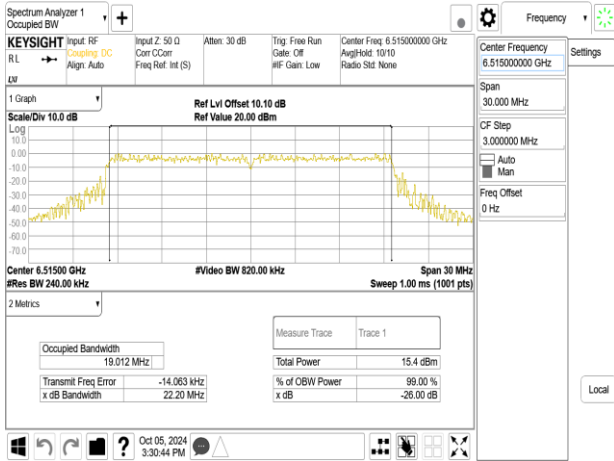
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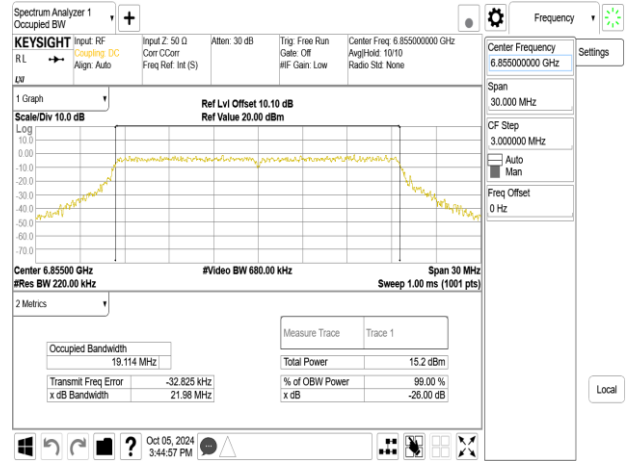
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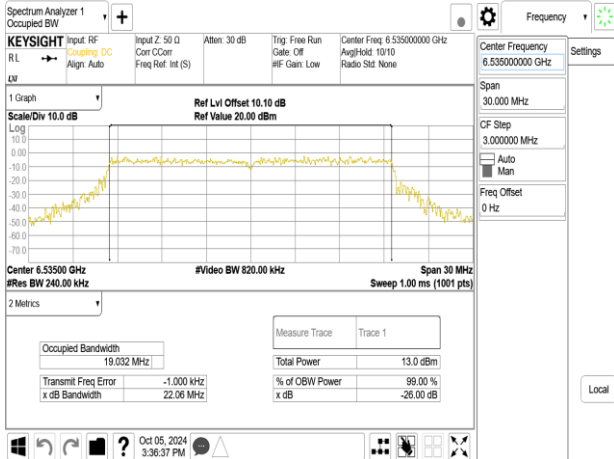
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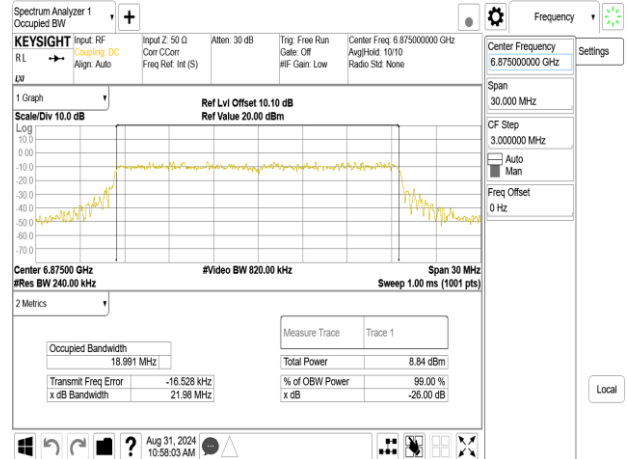
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802.11be_20MHz_Chain0_6535MHz



802.11be_20MHz_Chain0_6875MHz

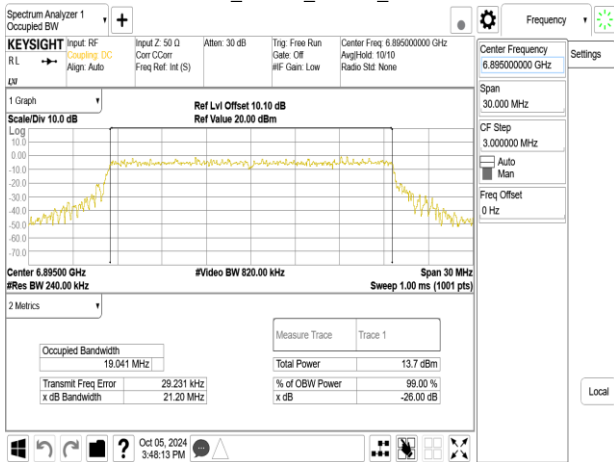


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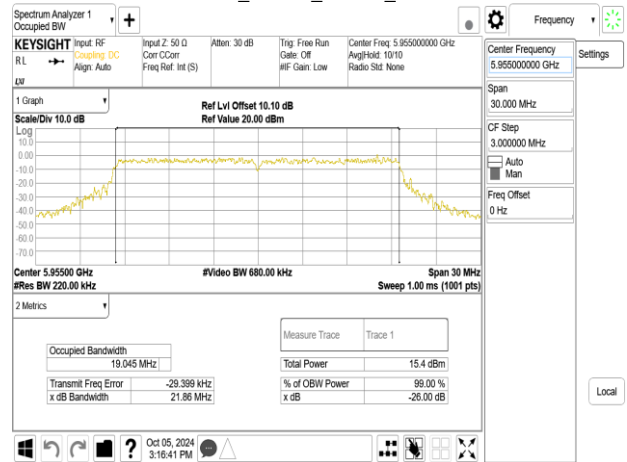
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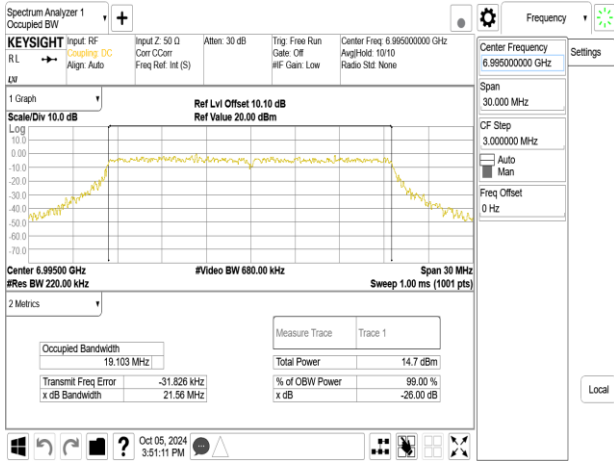
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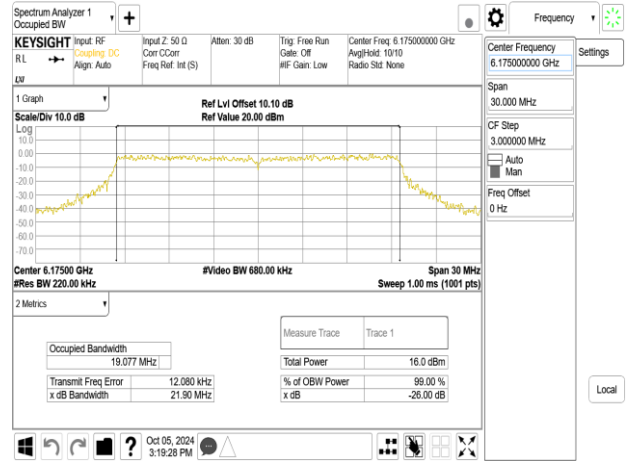
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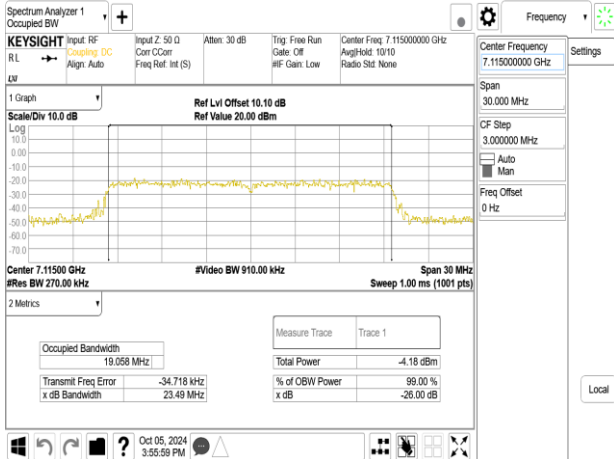
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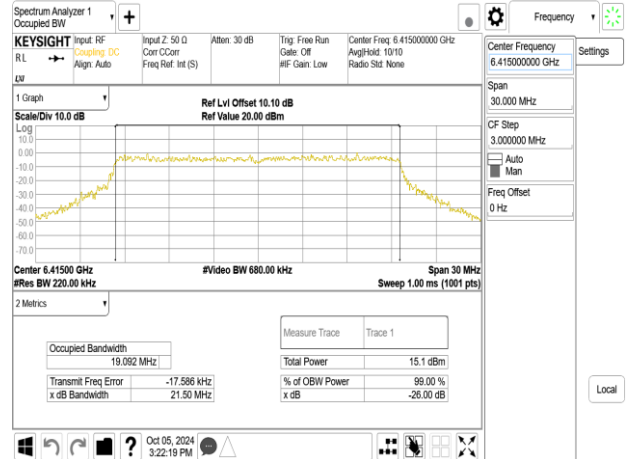
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802.11be_20MHz_Chain0_7115MHz



802.11be_20MHz_Chain1_6415MHz

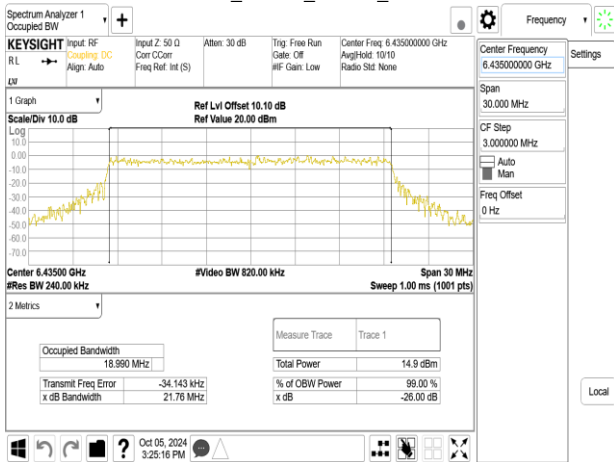


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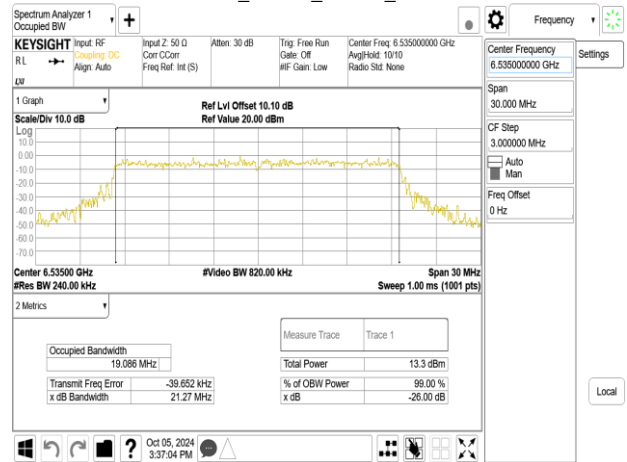
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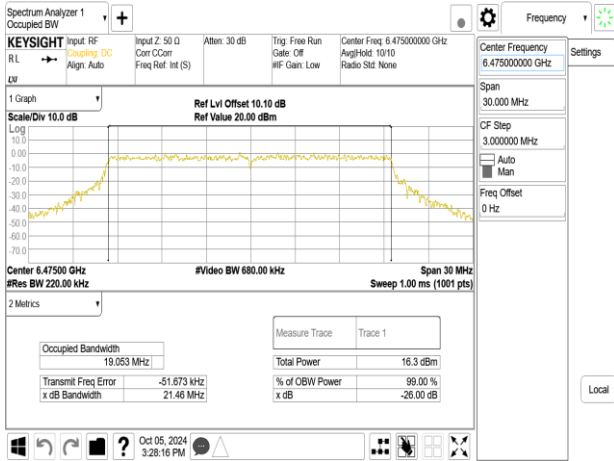
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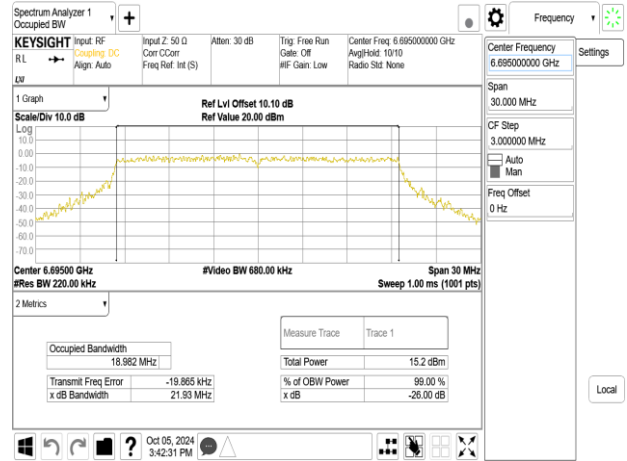
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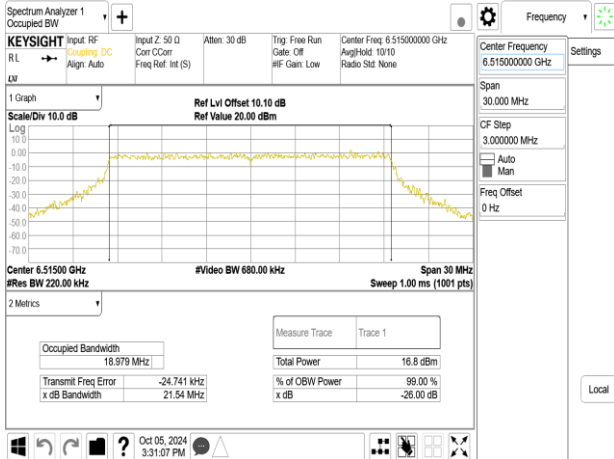
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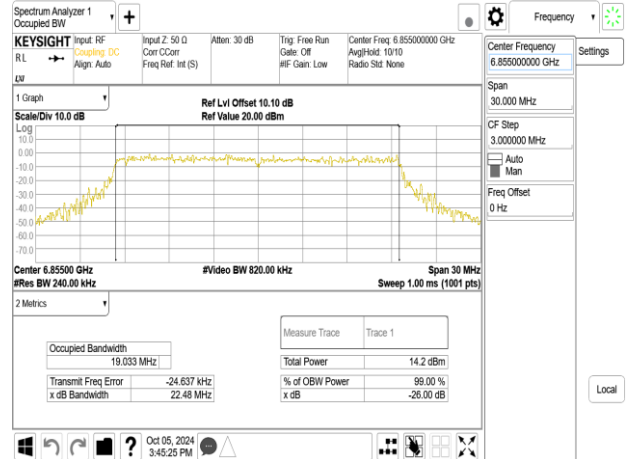
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802.11be_20MHz_Chain1_6515MHz



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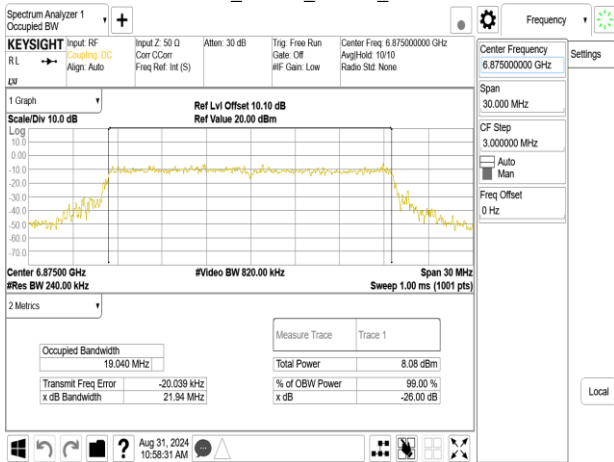


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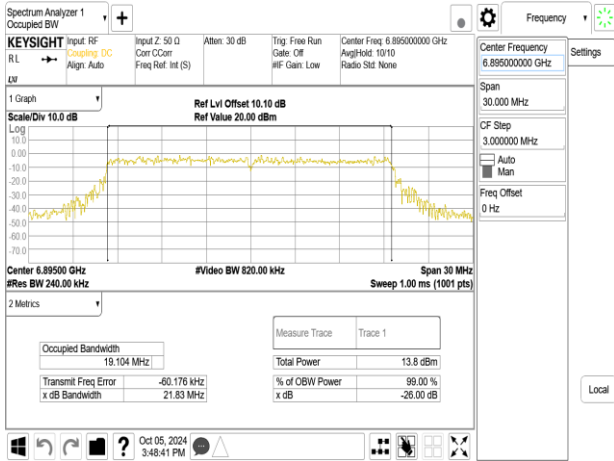
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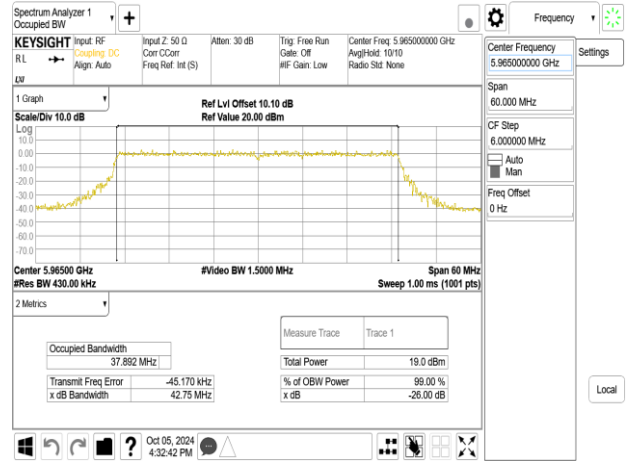
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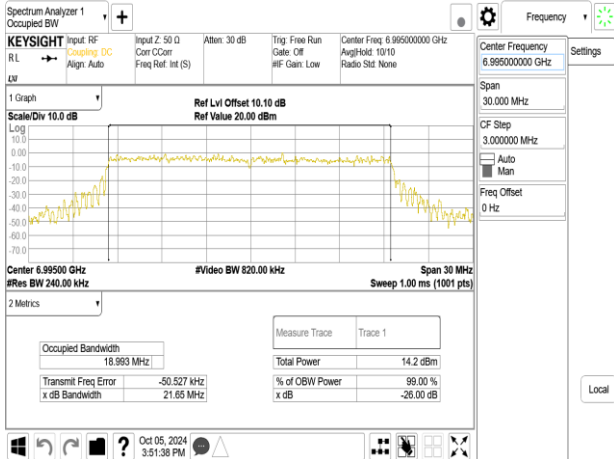
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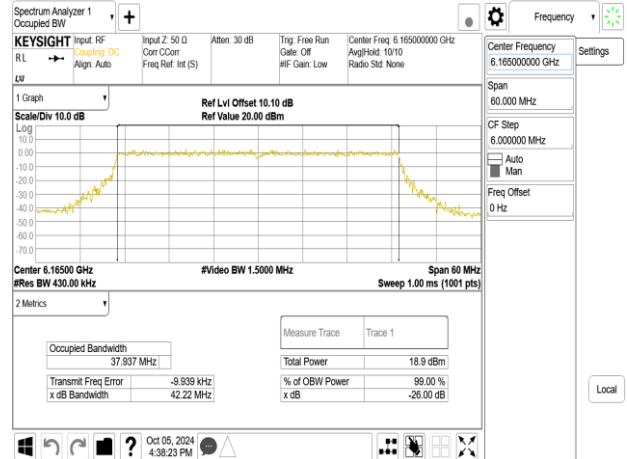
802.11be_40MHz_Chain0_5965MHz



802.11be_20MHz_Chain1_6995MHz



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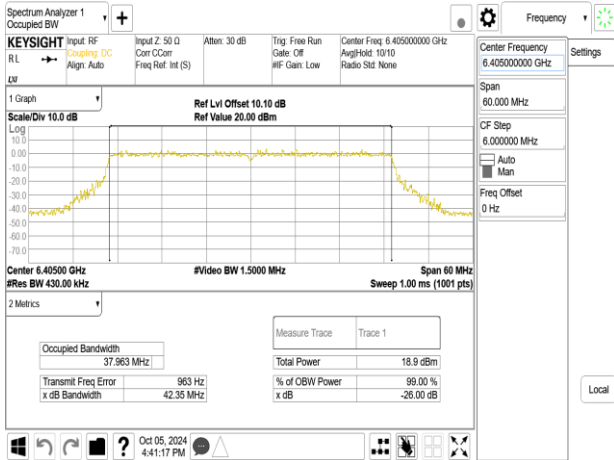


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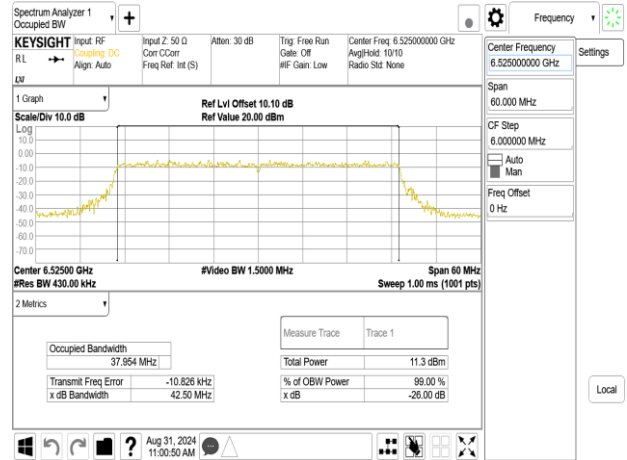
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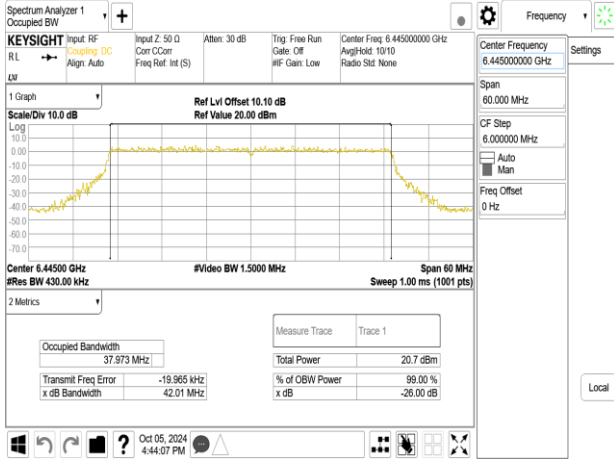
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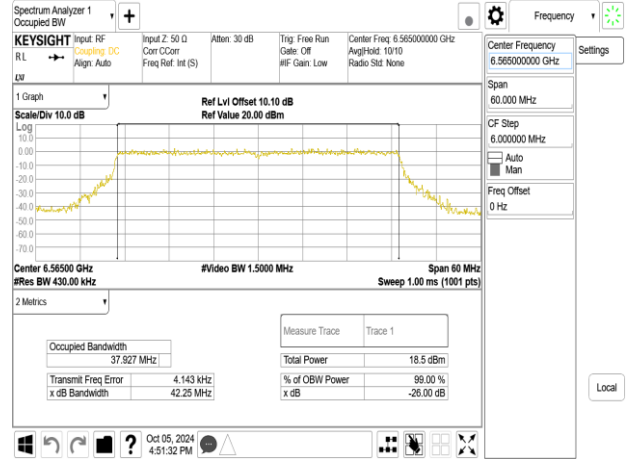
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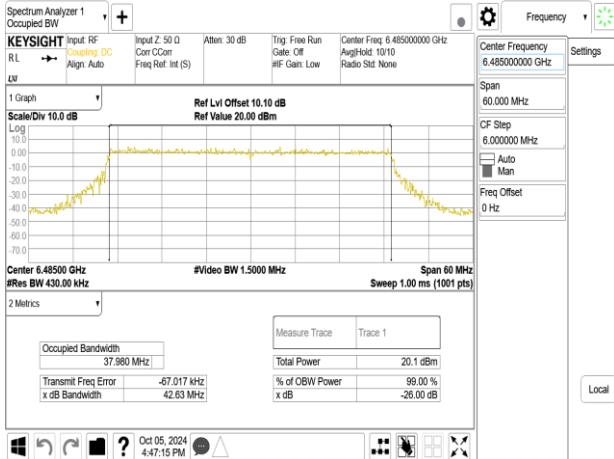
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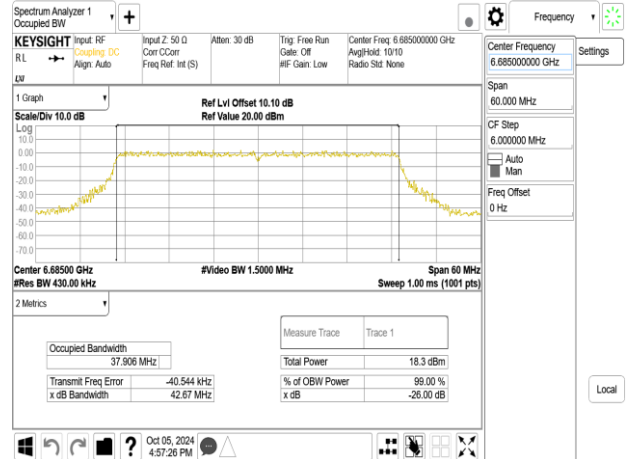
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802.11be_40MHz_Chain0_6485MHz



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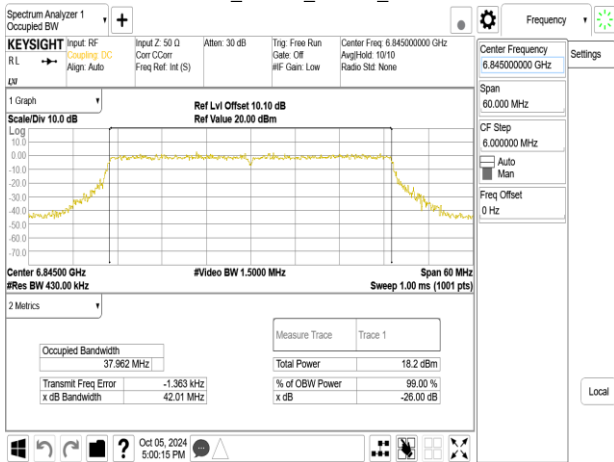


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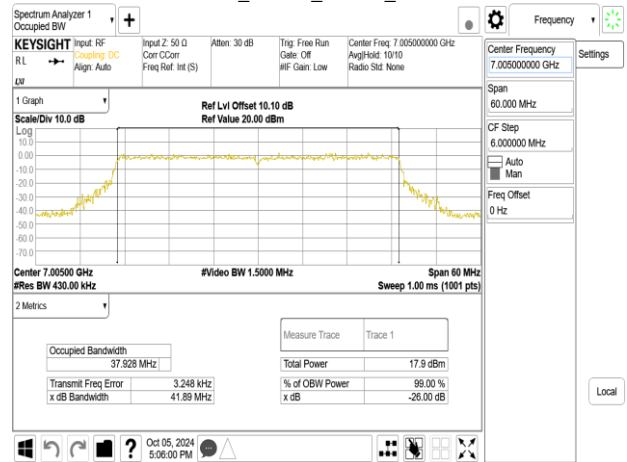
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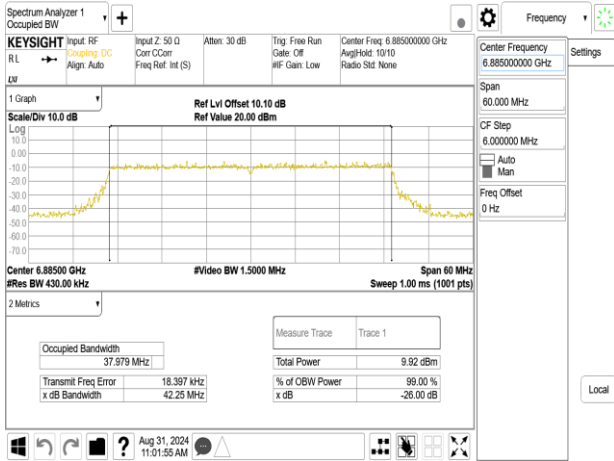
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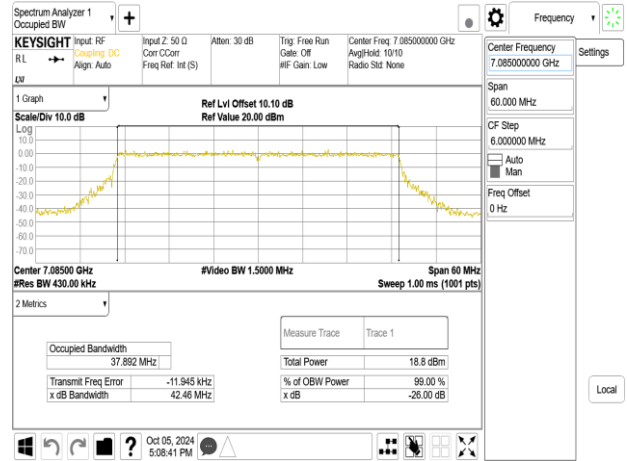
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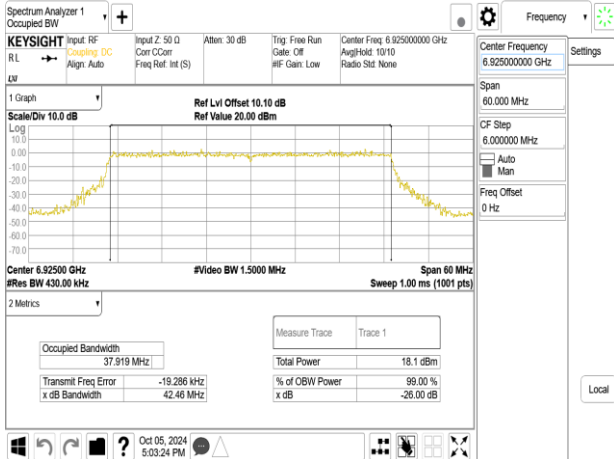
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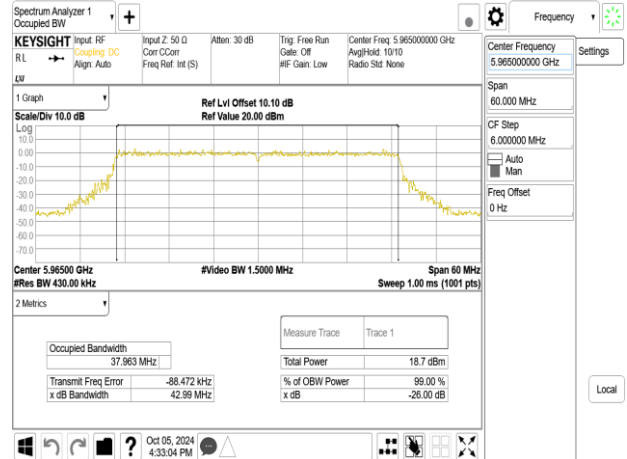
802.11be_40MHz_Chain0_7085MHz



802.11be_40MHz_Chain0_6925MHz



802.11be_40MHz_Chain1_5965MHz



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