

**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: TERF2407002110ER

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
TERF2407002110ER	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.:	S7AIOCN13304NN6
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:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ac_VHT160: up to 1733.4 Mbps
	802.11 ax_HE20: up to 286.8 Mbps
	802.11 ax_HE40: up to 573.6 Mbps
	802.11 ax_HE80: up to 1201 Mbps
	802.11 ax_HE160: up to 2402 Mbps
	802.11 be_EHT20: up to 344.1 Mbps
	802.11 be_EHT40: up to 688.2 Mbps
802.11 be_EHT80: up to 1441.2 Mbps	
802.11 be_EHT160: up to 2882.4 Mbps	

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1.4 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ANT4	5150~5250	-5.37
		5250~5350	-4.51
		5470~5725	-4.69
		5725~5850	-4.8
		5850~5895	-4.89
	ANT5	5150~5250	-2.91
		5250~5350	-2.59
		5470~5725	-2.41
		5725~5850	-2.7
		5850~5895	-3.62

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 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20/ 802.11be_EHT20	5180~5240	4	22.05 dBm	OFDMA
	5260~5320	4	23.08 dBm	OFDM
	5500~5720	12	21.55 dBm	OFDMA
	5745-5825	5	24.69 dBm	OFDM
	5845~5885	3	20.55 dBm	OFDMA
802.11n_HT40 802.11ac_VHT40/ 802.11ax_HE40/ 802.11be_EHT40	5190~5230	2	23.94 dBm	OFDMA
	5270~5310	2	23.77 dBm	OFDMA
	5510~5710	6	23.96 dBm	OFDMA
	5755-5795	2	23.48 dBm	OFDMA
	5835~5875	2	20.45 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80/ 802.11be_EHT80	5210	1	18.69 dBm	OFDMA
	5290	1	19.57 dBm	OFDMA
	5530~5690	3	21.61 dBm	OFDMA
	5775	1	21.42 dBm	OFDMA
	5855	1	16.97 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160/ 802.11be_EHT160	5250	1	19.31 dBm	OFDMA
	5570	1	18.54 dBm	OFDMA
	5815	1	18.59 dBm	OFDMA

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01
 FCC KDB 291074 D02 EMC Measurement v01
 ANSI C63.10:2013

1.7 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.

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2.4 Measurement Results Explanation Example

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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

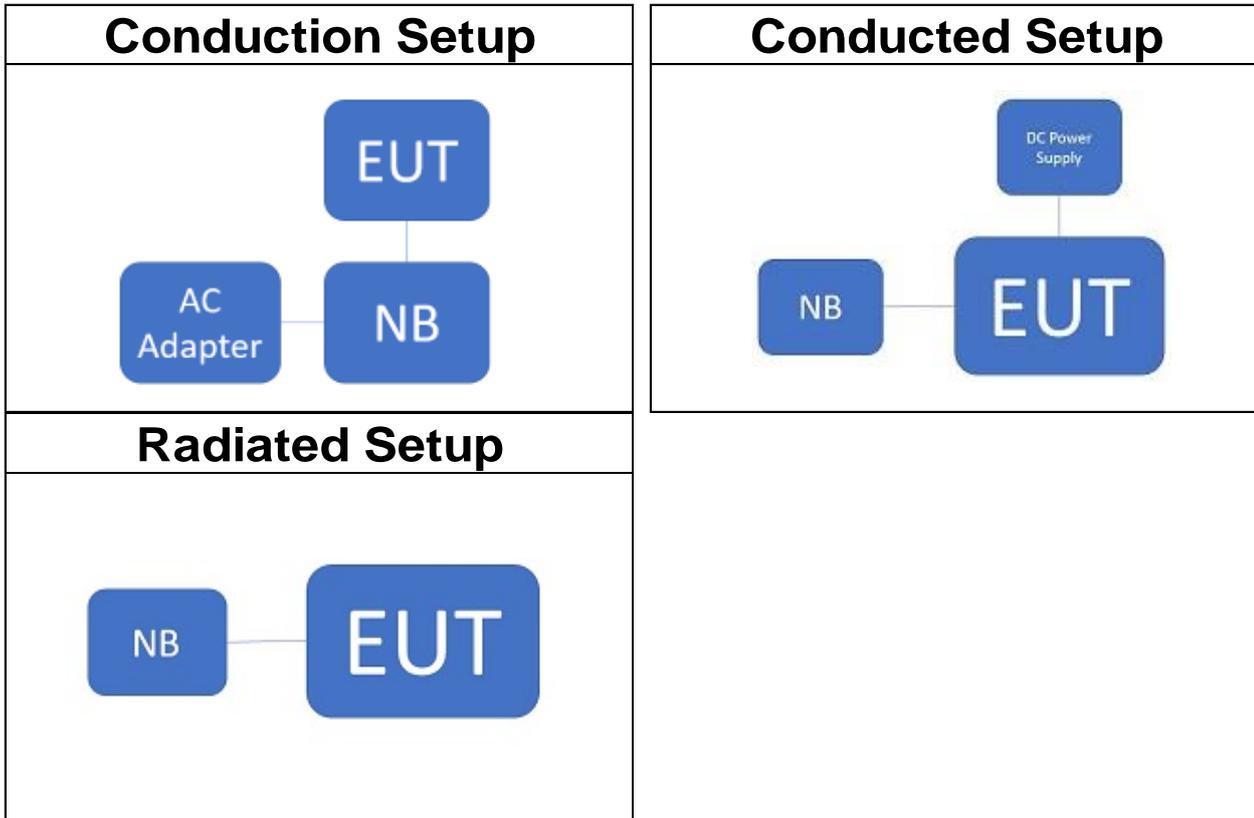
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
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
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

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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(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

160MHz	
CH	Freq. (MHz)
50	5250

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

160MHz	
CH	Freq. (MHz)
114	5570

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

160MHz	
CH	Freq. (MHz)
163	5815

UNII-4 5850 MHz ~ 5925MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
169	5845	167	5835	171	5885
173	5865	175	5875		
177	5885				

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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	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			
	5815	163	163			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5250	50	50	OFDMA	FULL RU	MCS0	2TX
	5570	114	114				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU SU_Punct20_Mid2 RU484+242_Punc20	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11be_EHT160	5250	50	50	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
	5570	114	114				
	5815	163	163				
TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5180~5240	36 to 48	44	OFDM	6	2TX	
	5260~5320	52 to 64	60				
	5500~5720	100 to 144	116				
	5745~5825	149 to 165	157				
	5845~5885	169 to 177	173				
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX	
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				

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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	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU SU_Punct20_Mid2, RU484+242_Punc20	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU 996/67, SU_Punct20_Mid3, SU_Punct40_Mid2, RU996+484_Punc40, 996+484 MRU4, SU_Punct20_High, SU_Punct40_High	MCS0	2TX
	5570	114	114				
	5815	163	163				

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

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
7G High Pass Filter	WI	WHKX7.0	45	12/12/2023	12/11/2024
Attenuator	Mini-Circuits	BW-S10W2+	16	12/12/2023	12/11/2024
Band Reject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/12/2023	12/11/2024
Band Reject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/12/2023	12/11/2024
Band Reject Filter 5725-5895	Titan	T04N5725589550S0 1	23040703-20	12/12/2023	12/11/2024
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000+EMC107-SM- SM-1500+EMC107- SM-SM- 8000+SUCOFLEX 104PEA	RX Cable 9K-18G (221110+221106+22 1212+MY4251/4PEA)	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/31/2023	08/30/2024
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
EMI Test Receiver	R&S	ESR 7	102525	02/17/2024	02/16/2025
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
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

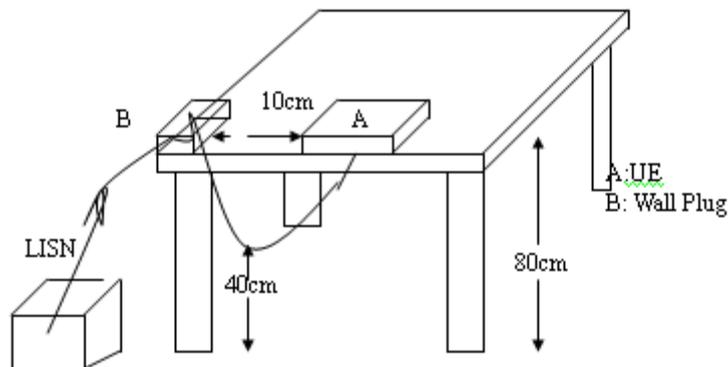
Note

- 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 SET-UP



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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.

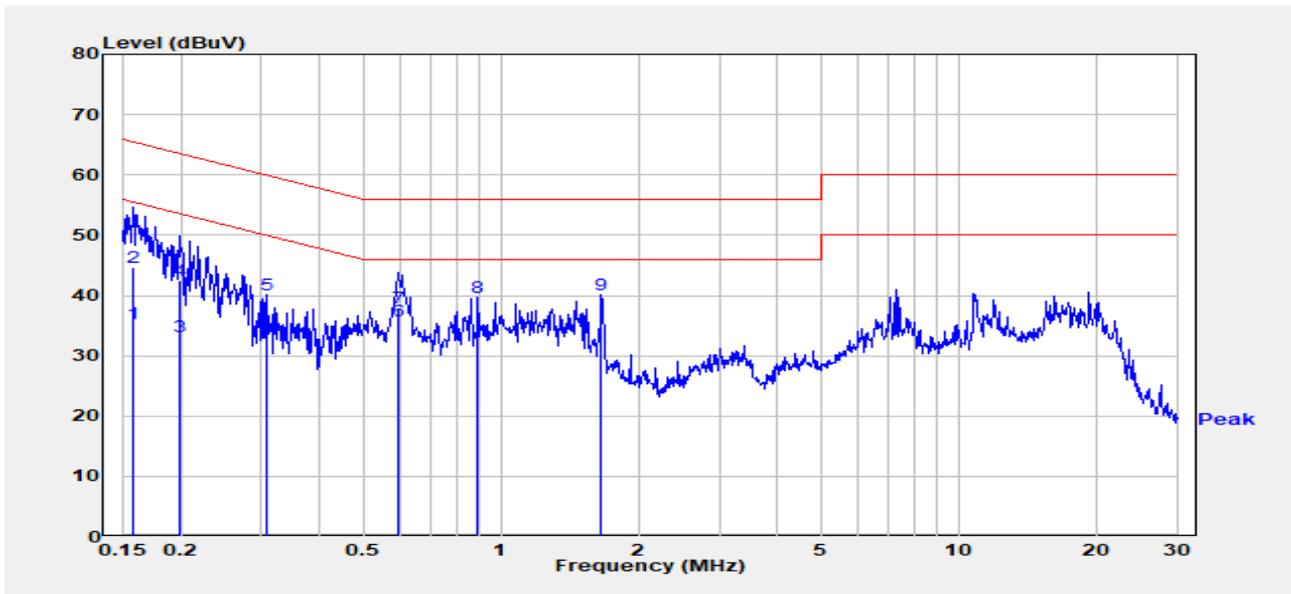
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2407002110ER	Test Site	:Conduction 1
Operation Mode	:WLAN 5G	Test Date	:2024-09-04
Power	:120V/60Hz	Temp./Humi.	:23.7°C/64%
Probe	:L	Engineer	:Nick Lin
Note:	:		



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
0.156	Average	25.20	10.13	35.33	55.65	-20.32
0.156	QP	34.50	10.13	44.63	65.65	-21.02
0.199	Average	23.10	10.13	33.23	53.67	-20.44
0.199	QP	32.40	10.13	42.53	63.67	-21.14
0.308	Peak	29.92	10.14	40.06	60.02	-19.96
0.598	Average	25.60	10.17	35.77	46.00	-10.23
0.598	QP	27.70	10.17	37.87	56.00	-18.13
0.890	Peak	29.42	10.19	39.62	56.00	-16.38
1.654	Peak	29.94	10.19	40.14	56.00	-15.86

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Report Number :TERF2407002110ER

Test Site :Conduction 1

Operation Mode :WLAN 5G

Test Date :2024-09-04

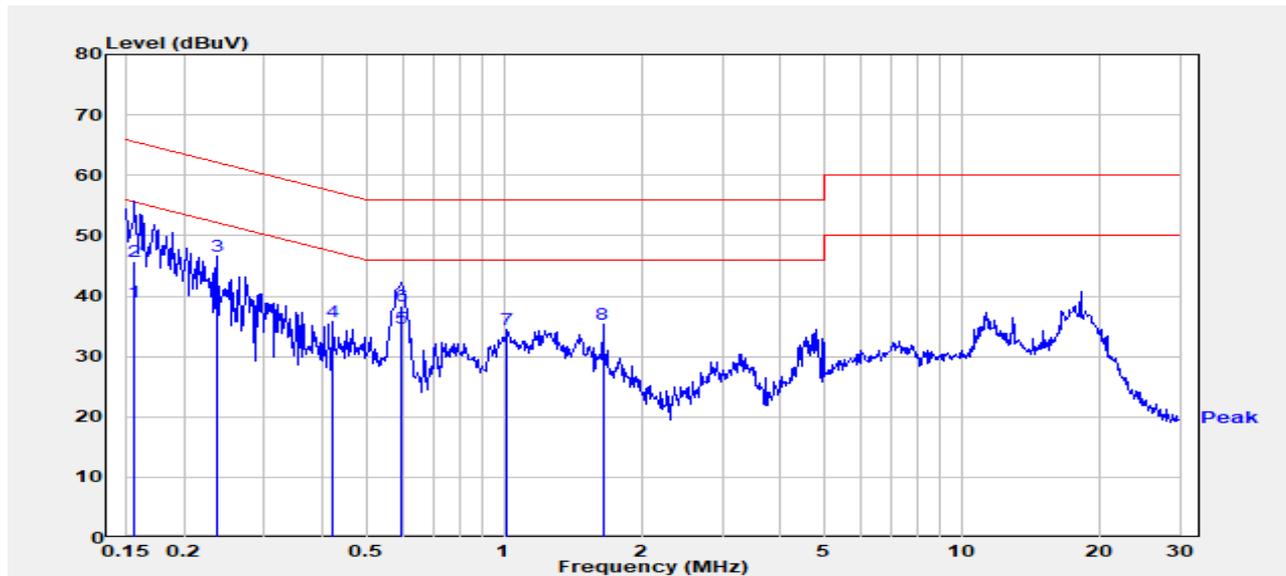
Power :120V/60Hz

Temp./Humi. :23.7°C/64%

Probe :N

Engineer :Nick Lin

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Average	28.80	10.12	38.92	55.69	-16.77
0.156	QP	35.70	10.12	45.82	65.69	-19.87
0.237	Peak	36.44	10.13	46.57	62.22	-15.64
0.424	Peak	25.65	10.15	35.80	57.37	-21.57
0.598	Average	24.50	10.17	34.67	46.00	-11.33
0.598	QP	28.10	10.17	38.27	56.00	-17.73
1.016	Peak	24.25	10.19	34.44	56.00	-21.56
1.645	Peak	25.17	10.19	35.36	56.00	-20.64

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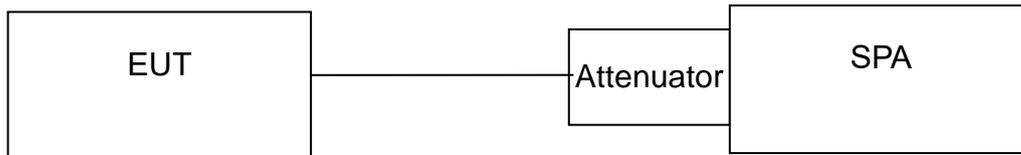
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3 & UNII-4.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.& 5.850~5.895GHz
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.09	13.240
5220	30.00	14.770
5240	29.17	14.650
5260	22.99	13.620
5300	22.10	13.440
5320	21.49	13.320
5500	21.68	13.360
5580	30.00	14.770
5700	21.65	13.350
5720(U-NII 2C)	20.00	13.010
5720(U-NII 3)	10.00	10.000

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.34	12.130
5785	16.39	12.150
5825	16.37	12.140
5845(U-NII 3)	13.19	11.200
5845(U-NII 4)	3.19	5.040
5865	16.38	12.140
5885	16.41	12.150

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.34	< 5250
5745	5735.75	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.90	13.200
5220	29.98	14.770
5240	30.00	14.770
5260	29.62	14.720
5300	29.79	14.740
5320	20.89	13.200
5500	21.27	13.280
5580	29.53	14.700
5700	21.33	13.290
5720(U-NII 2C)	16.65	12.210
5720(U-NII 3)	6.65	8.230

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.36	12.140
5785	16.41	12.150
5825	16.38	12.140
5845(U-NII 3)	13.23	11.210
5845(U-NII 4)	3.23	5.090
5865	16.39	12.150
5885	16.39	12.150

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.02	< 5250
5745	5736.55	> 5725

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802.11be_EHT20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	21.85	13.390
5220	full	29.99	14.770
5240	full	29.44	14.690
5260	full	23.35	13.680
5300	full	22.72	13.560
5320	full	21.69	13.360
5500	full	21.83	13.390
5580	full	29.50	14.700
5700	full	22.88	13.590
5720 (U-NII 2C)	full	20.00	13.010
5720 (U-NII 3)	full	10.00	10.000

802.11be_EHT20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.92	12.770
5785	full	19.16	12.820
5825	full	19.00	12.790
5845 (U-NII 3)	full	14.55	11.630
5845 (U-NII 4)	full	4.55	6.580
5865	full	18.90	12.760
5885	full	19.01	12.790

802.11be_EHT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.53	< 5250
5745	5732.79	> 5725

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802.11be_EHT20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.47	13.520
5220	full	29.98	14.770
5240	full	30.00	14.770
5260	full	28.45	14.540
5300	full	29.94	14.760
5320	full	22.14	13.450
5500	full	22.24	13.470
5580	full	25.89	14.130
5700	full	21.78	13.380
5720 (U-NII 2C)	full	16.05	12.050
5720 (U-NII 3)	full	6.05	7.810

802.11be_EHT20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	19.12	12.810
5785	full	19.10	12.810
5825	full	19.00	12.790
5845 (U-NII 3)	full	14.56	11.630
5845 (U-NII 4)	full	4.56	6.590
5865	full	18.95	12.780
5885	full	19.10	12.810

802.11be_EHT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.60	< 5250
5745	5735.38	> 5725

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802.11be_EHT40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.35	16.270
5230	full	60.00	17.780
5270	full	57.17	17.570
5310	full	42.20	16.250
5510	full	42.77	16.310
5550	full	60.00	17.780
5670	full	42.77	16.310
5710 (U-NII 2C)	full	36.30	15.600
5710 (U-NII 3)	full	6.30	7.990

802.11be_EHT40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.06	15.800
5795	full	38.03	15.800
5835 (U-NII 3)	full	34.05	15.320
5835 (U-NII 4)	full	4.05	6.070
5875	full	38.15	15.810

802.11be_EHT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.16	< 5250
5755	5735.99	> 5725

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802.11be_EHT40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.35	16.270
5230	full	60.00	17.780
5270	full	60.00	17.780
5310	full	42.61	16.300
5510	full	41.99	16.230
5550	full	59.89	17.770
5670	full	42.14	16.250
5710 (U-NII 2C)	full	36.27	15.600
5710 (U-NII 3)	full	6.27	7.980

802.11be_EHT40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.15	15.810
5795	full	38.04	15.800
5835 (U-NII 3)	full	34.06	15.320
5835 (U-NII 4)	full	4.06	6.090
5875	full	38.31	15.830

802.11be_EHT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.38	< 5250
5755	5736.03	> 5725

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802.11be_EHT80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	86.98	19.390
5290	full	86.18	19.350
5530	full	85.08	19.300
5610	full	85.09	19.300
5690 (U-NII 2C)	full	77.46	18.890
5690 (U-NII 3)	full	7.46	8.730

802.11be_EHT80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.17	18.930
5855 (U-NII 3)	full	34.05	15.320
5855 (U-NII 4)	full	44.05	16.440

802.11be_EHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.59	< 5250
5775	5736.23	> 5725

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802.11be_EHT80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	85.34	19.310
5290	full	86.04	19.350
5530	full	86.56	19.370
5610	full	85.32	19.310
5690 (U-NII 2C)	full	78.45	18.950
5690 (U-NII 3)	full	8.45	9.270

802.11be_EHT80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.13	18.930
5855 (U-NII 3)	full	34.15	15.330
5855 (U-NII 4)	full	44.15	16.450

802.11be_EHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.77	< 5250
5775	5736.20	> 5725

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802.11be_EHT160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	174.7	22.420
5570	full	173.6	22.390

802.11be_EHT160_Ch0

Freq. (MHz)		6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	114.1	20.570
5815 (U-NII 4)	full	44.1	16.440

802.11be_EHT160_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	173.2	22.380
5570	full	173.3	22.390

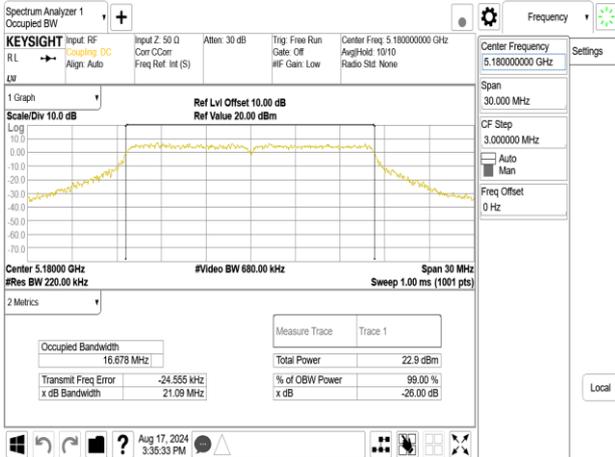
802.11be_EHT160_Ch1

Freq. (MHz)		6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	113.9	20.560
5815 (U-NII 4)	full	43.9	16.420

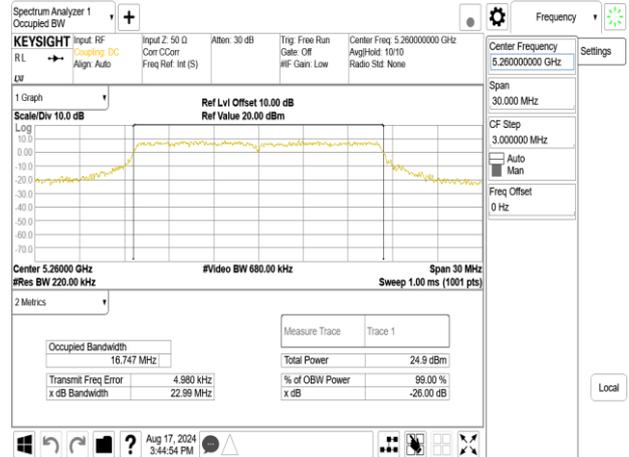
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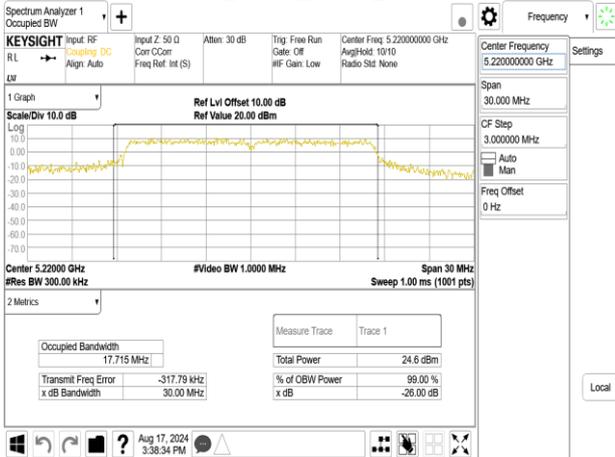
802.11a_20MHz_Chain0_5180MHz



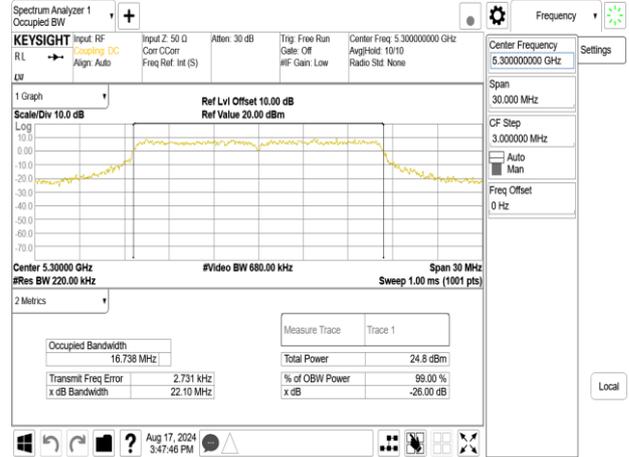
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



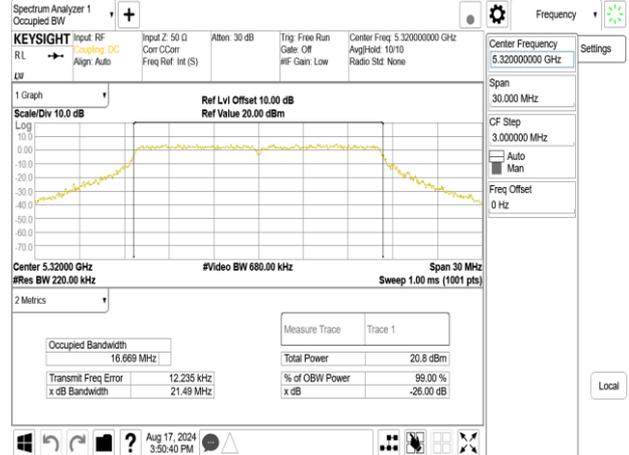
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

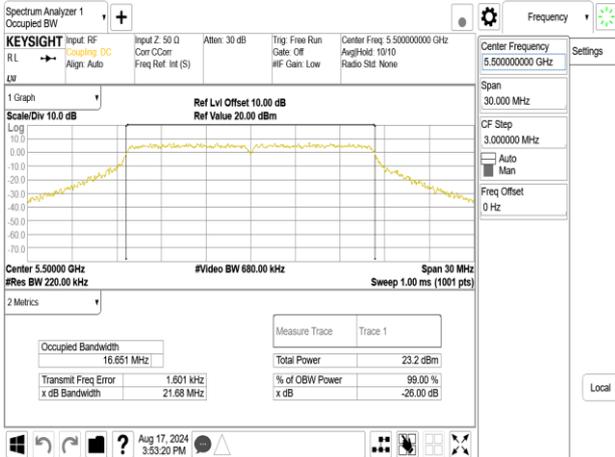


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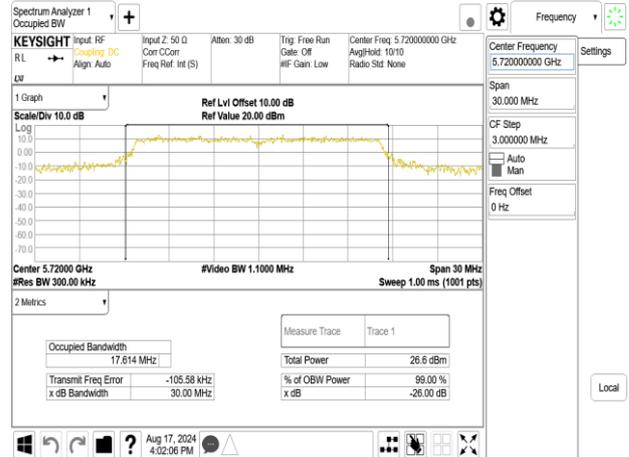
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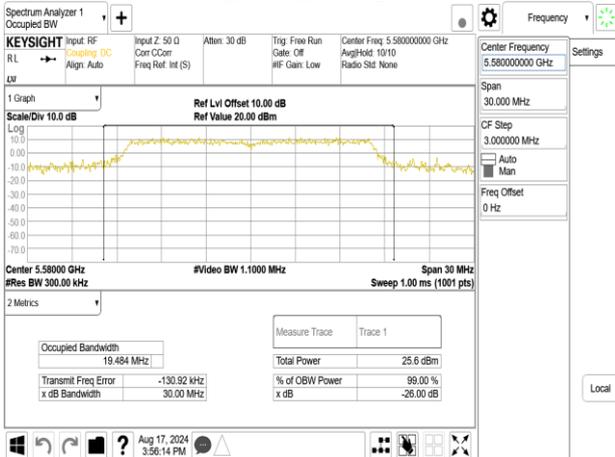
802.11a_20MHz_Chain0_5500MHz



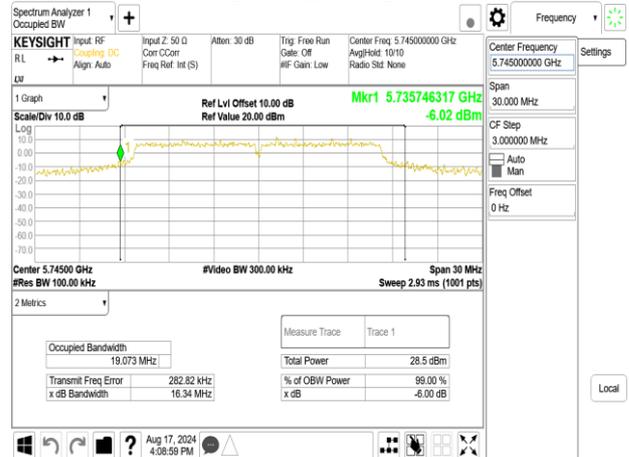
802.11a_20MHz_Chain0_5720MHz



802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

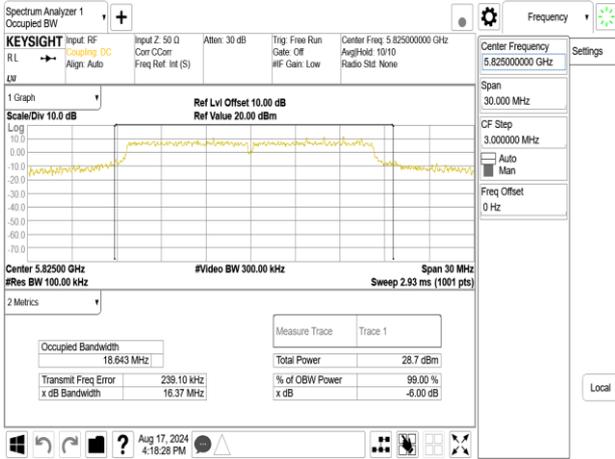


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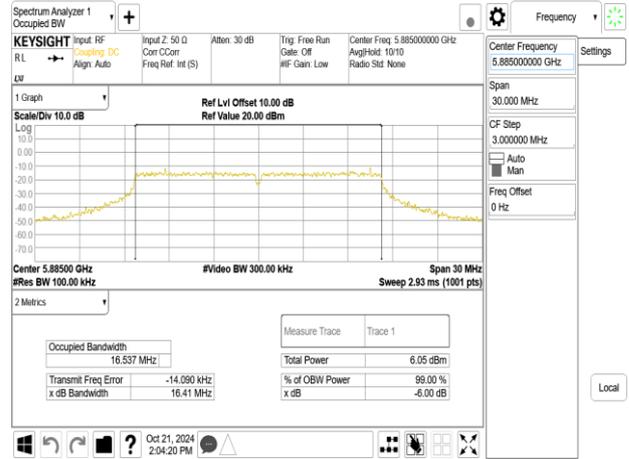
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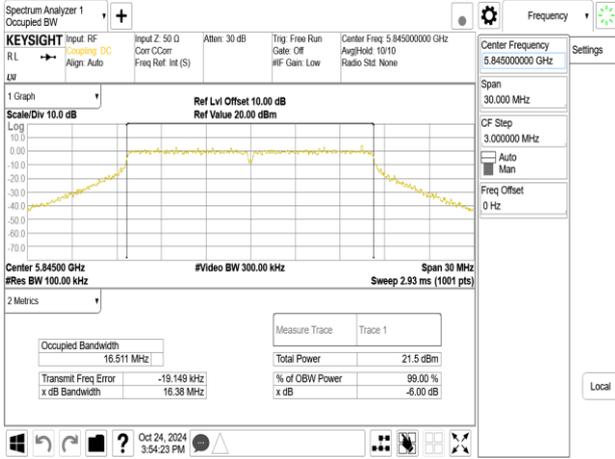
802.11a_20MHz_Chain0_5825MHz



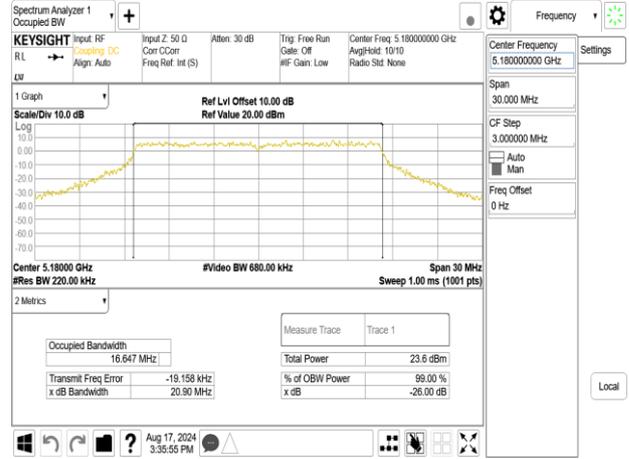
802.11a_20MHz_Chain0_5885MHz



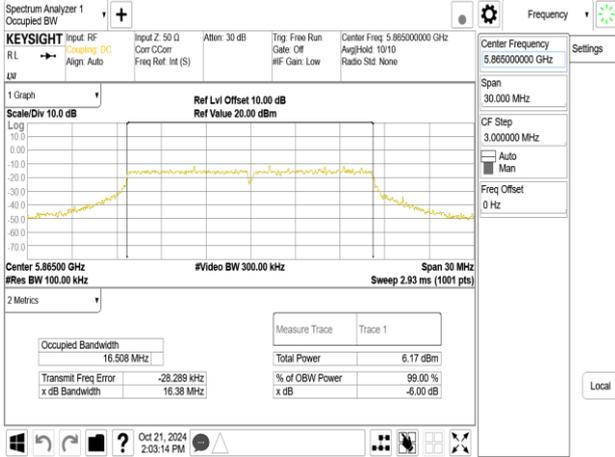
802.11a_20MHz_Chain0_5845MHz



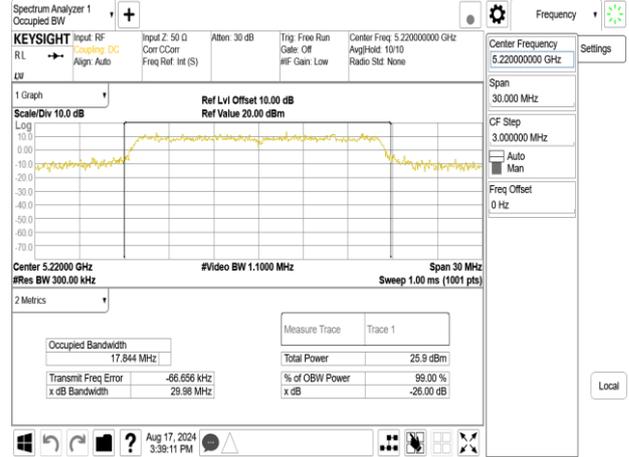
802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain0_5865MHz



802.11a_20MHz_Chain1_5220MHz

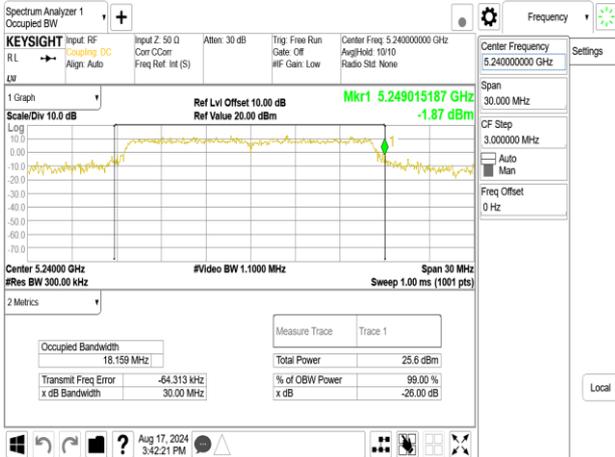


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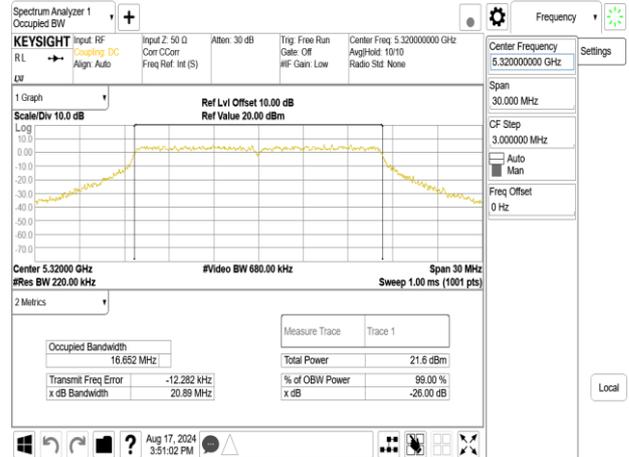
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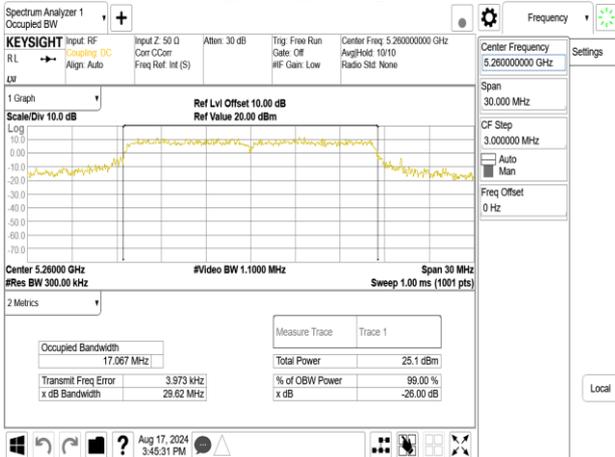
802.11a_20MHz_Chain1_5240MHz



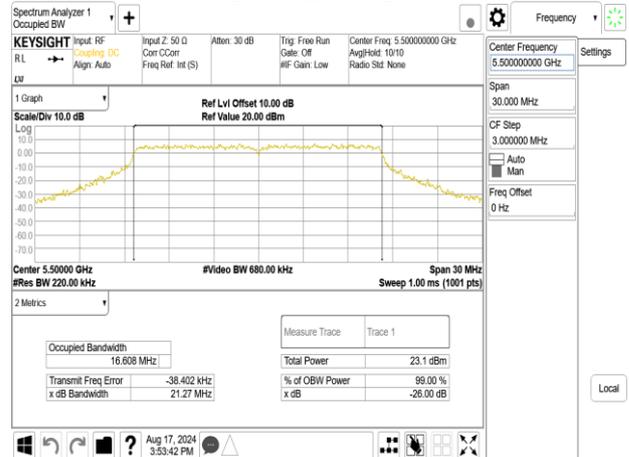
802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5580MHz

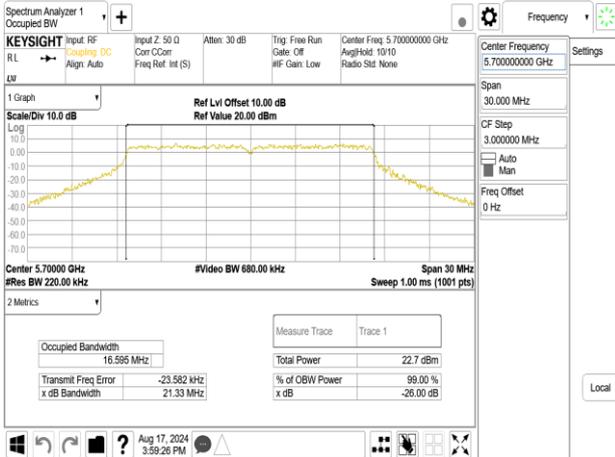


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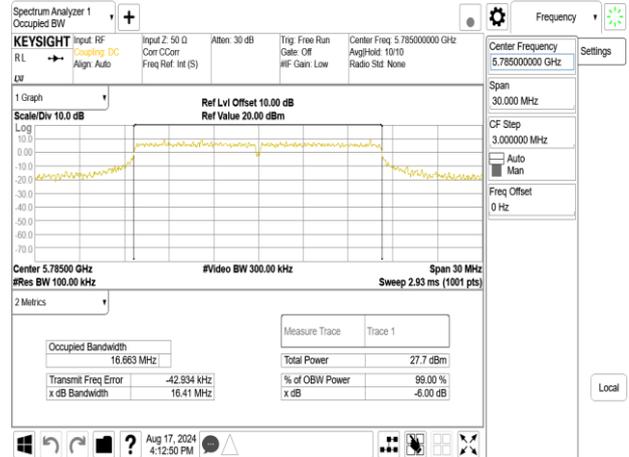
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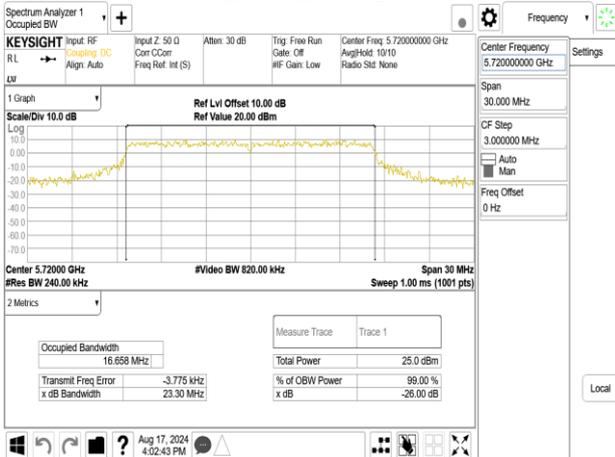
802.11a_20MHz_Chain1_5700MHz



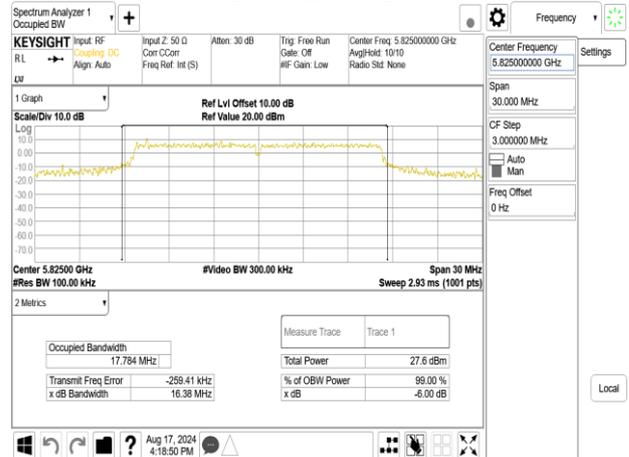
802.11a_20MHz_Chain1_5785MHz



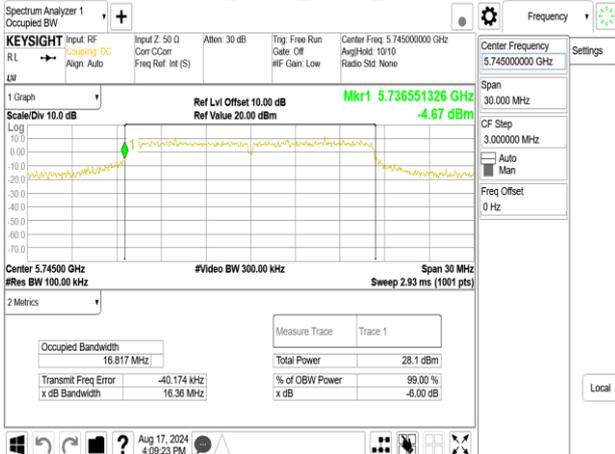
802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain1_5745MHz



802.11a_20MHz_Chain1_5845MHz

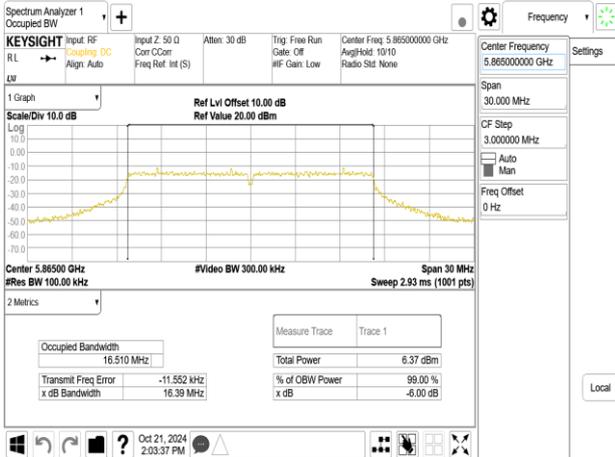


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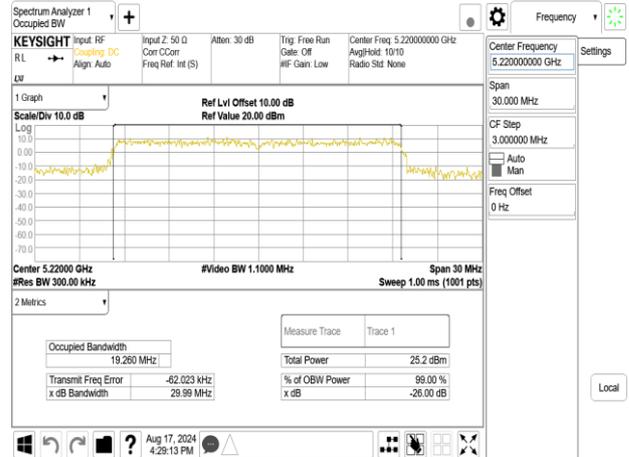
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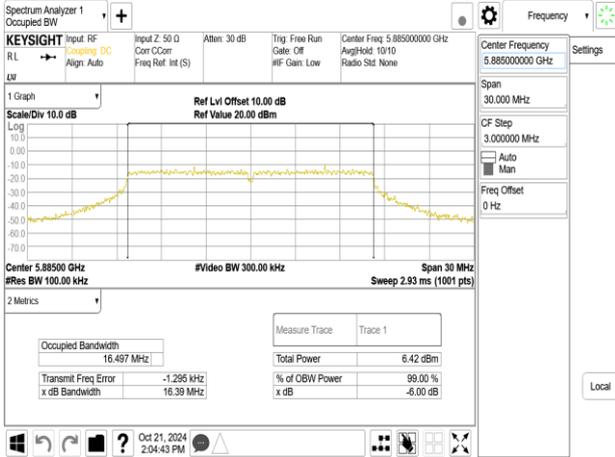
802.11a_20MHz_Chain1_5865MHz



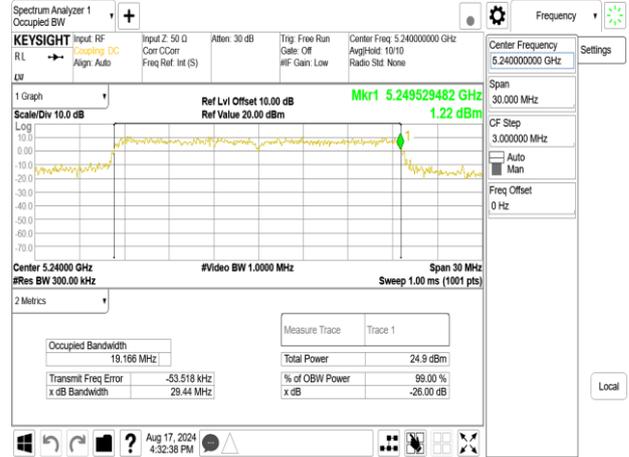
802.11be_20MHz_Chain0_5220MHz



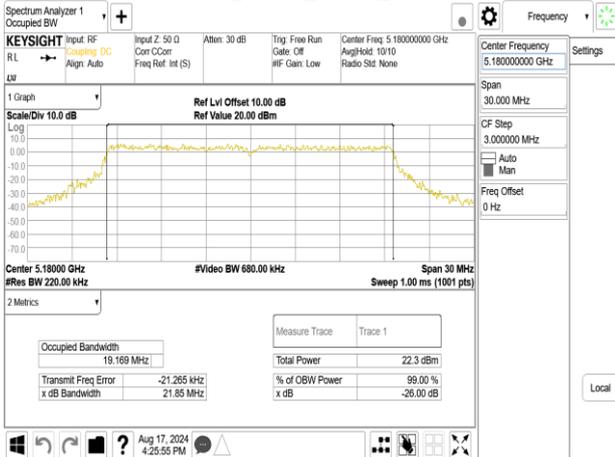
802.11a_20MHz_Chain1_5885MHz



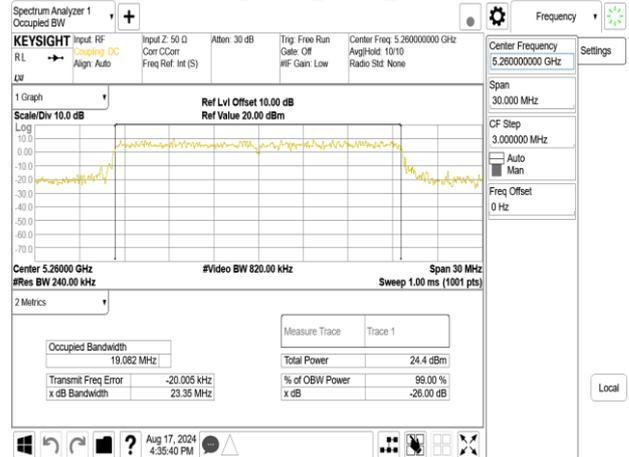
802.11be_20MHz_Chain0_5240MHz



802.11be_20MHz_Chain0_5180MHz



802.11be_20MHz_Chain0_5260MHz

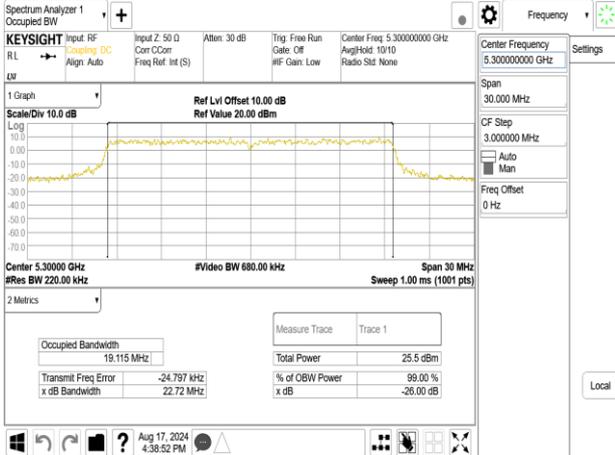


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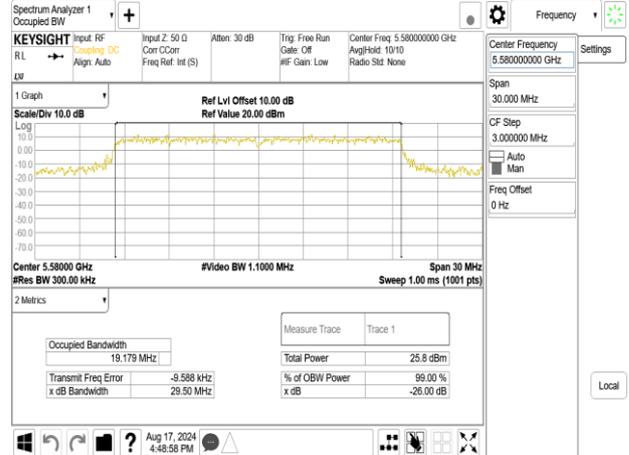
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802.11be_20MHz_Chain0_5300MHz



802.11be_20MHz_Chain0_5580MHz



802.11be_20MHz_Chain0_5320MHz



802.11be_20MHz_Chain0_5700MHz



802.11be_20MHz_Chain0_5500MHz



802.11be_20MHz_Chain0_5720MHz



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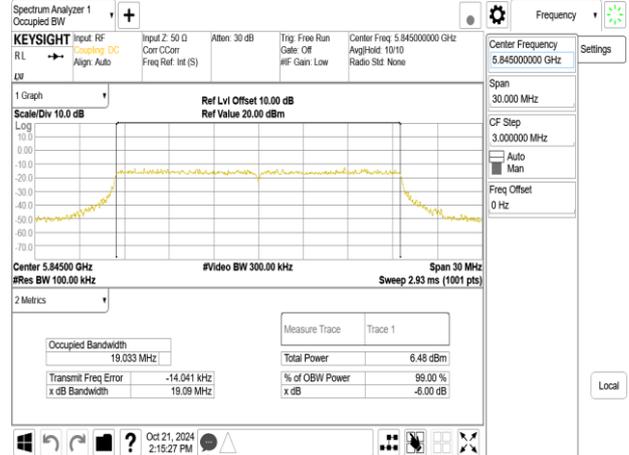
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802.11be_20MHz_Chain0_5745MHz



802.11be_20MHz_Chain0_5845MHz



802.11be_20MHz_Chain0_5785MHz



802.11be_20MHz_Chain0_5865MHz



802.11be_20MHz_Chain0_5825MHz



802.11be_20MHz_Chain0_5885MHz

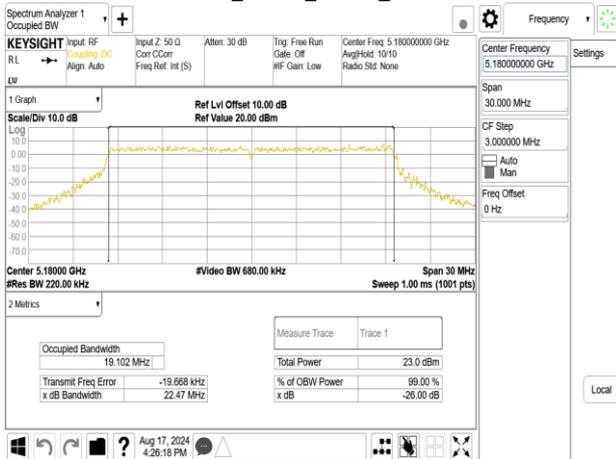


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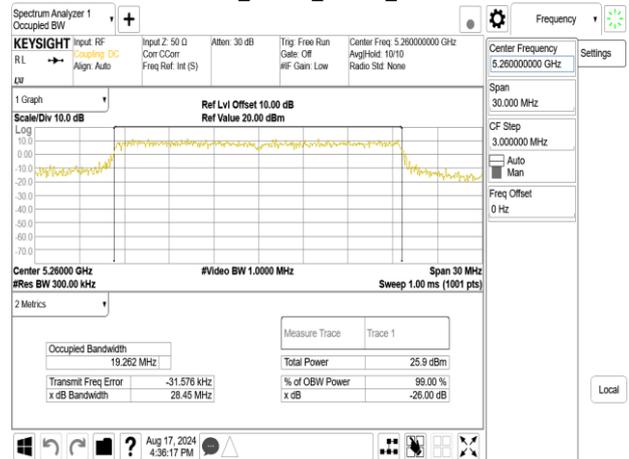
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802.11be_20MHz_Chain1_5180MHz



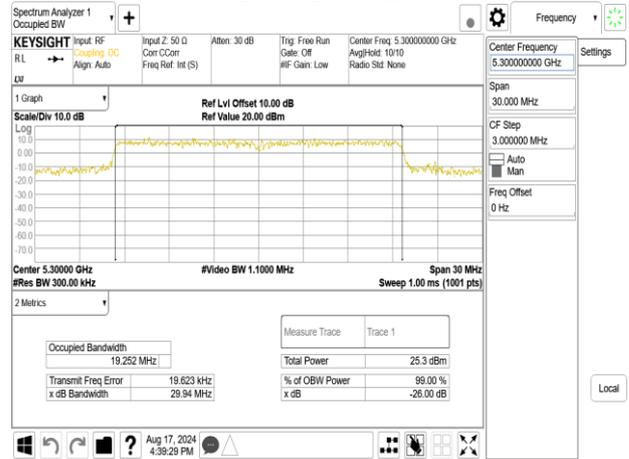
802.11be_20MHz_Chain1_5260MHz



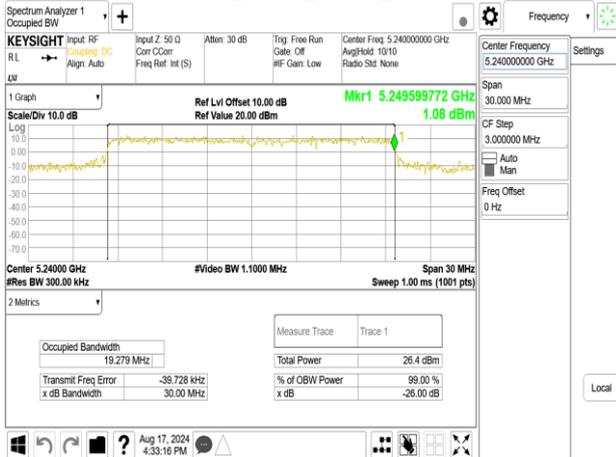
802.11be_20MHz_Chain1_5220MHz



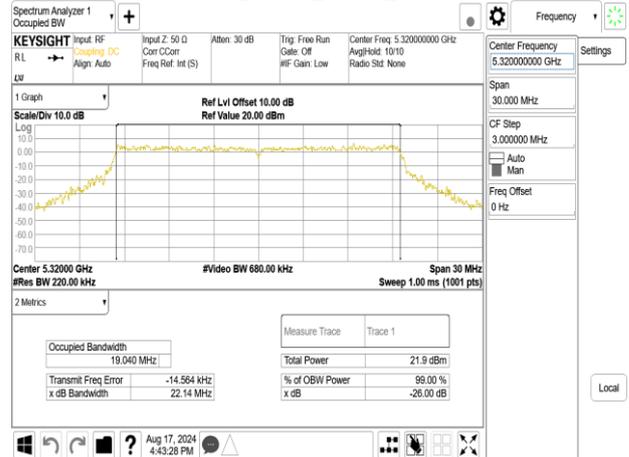
802.11be_20MHz_Chain1_5300MHz



802.11be_20MHz_Chain1_5240MHz



802.11be_20MHz_Chain1_5320MHz

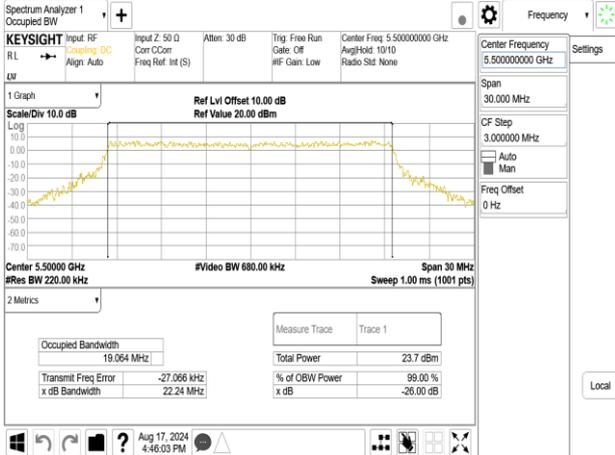


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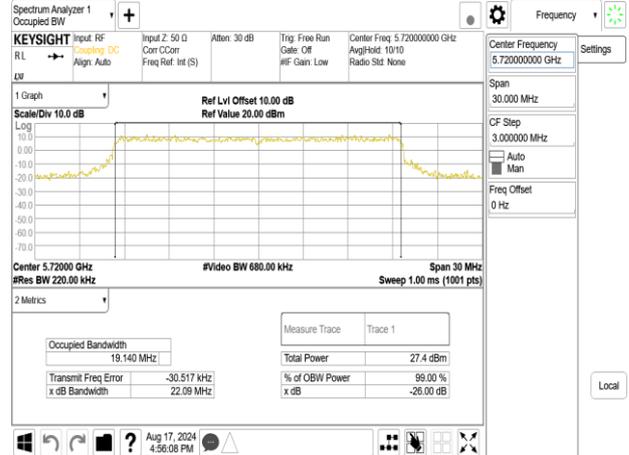
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802.11be_20MHz_Chain1_5500MHz



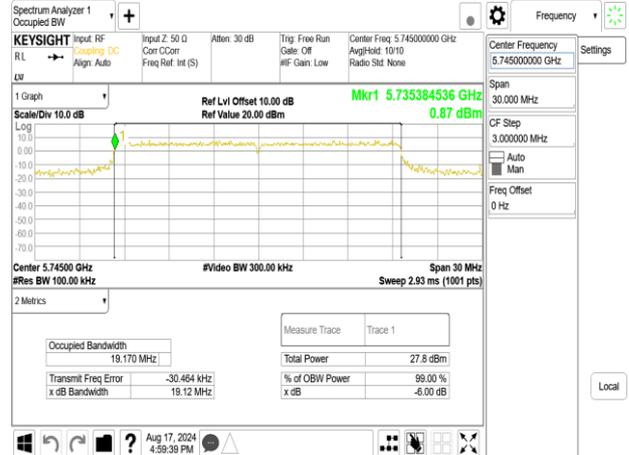
802.11be_20MHz_Chain1_5720MHz



802.11be_20MHz_Chain1_5580MHz



802.11be_20MHz_Chain1_5745MHz



802.11be_20MHz_Chain1_5700MHz



802.11be_20MHz_Chain1_5785MHz



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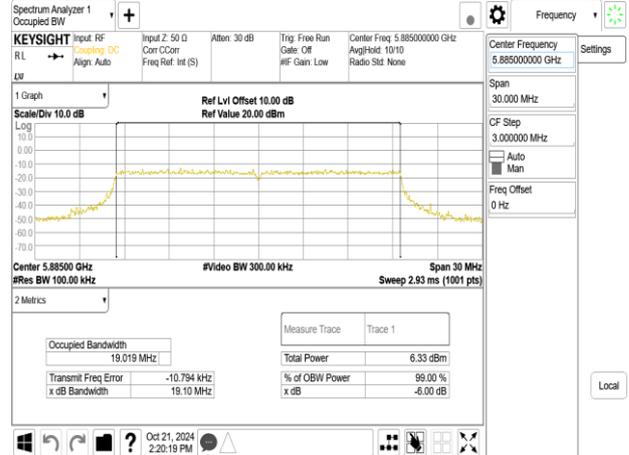
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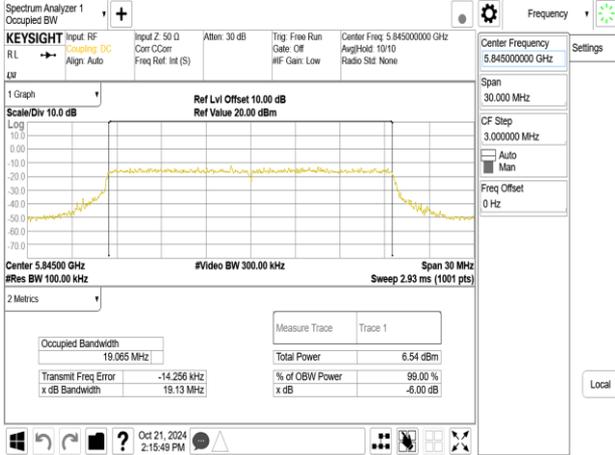
802.11be_20MHz_Chain1_5825MHz



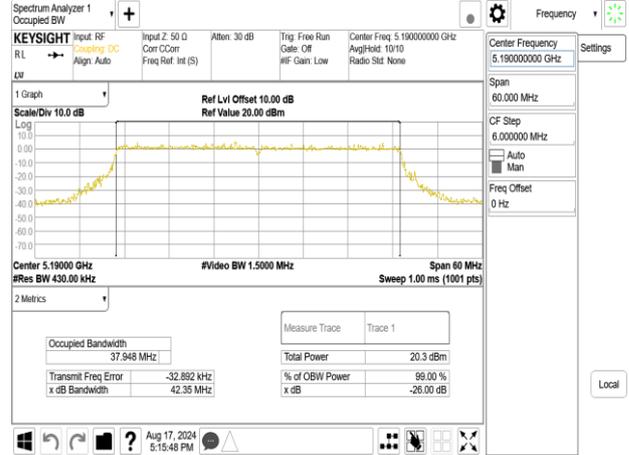
802.11be_20MHz_Chain1_5885MHz



802.11be_20MHz_Chain1_5845MHz



802.11be_40MHz_Chain0_5190MHz



802.11be_20MHz_Chain1_5865MHz



802.11be_40MHz_Chain0_5230MHz



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