

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Manufacturer: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Product Name: 5G NR Sub 6 WiFi 7 Router

Brand Name: Verizon

Model No.: ASK-NCM1100

Model Difference: N/A

Report Number: TERF2308001923E2

FCC ID H8N-ASK-NCM1100

Date of EUT Received: August 4, 2023

Date of Test: August 4, 2023 ~ January 5, 2024

Issue Date: January 12, 2024

Approved By

Vito Pei

Vito Pei

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2308001923E2	00	Original.	November 13, 2023	Susan Lin	
TERF2308001923E2	01	Update beamforming radiated bandedge data	January 12, 2024	Susan Lin	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	5G NR Sub 6 WiFi 7 Router
Brand Name:	Verizon
Model No.:	ASK-NCM1100
Model Difference:	N/A
Hardware Version:	Rev4
Firmware Version:	SDK 2.0.6
EUT Series No.:	ACD33200170
Power Supply:	12V
Test Software (Name/Version)	MT7990 QA 0.0.2.99

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 288.8 Mbps
	802.11 n_40MHz: up to 600 Mbps
	802.11 ac_20MHz: up to 346.8 Mbps
	802.11 ac_40MHz: up to 800 Mbps
	802.11 ac_80MHz: up to 1733.2 Mbps
	802.11 ac_160MHz: up to 3466.8 Mbps
	802.11 ax_20MHz: up to 573.6 Mbps
	802.11 ax_40MHz: up to 1147.2 Mbps
	802.11 ax_80MHz: up to 2402 Mbps
	802.11 ax_160MHz: up to 4804 Mbps
	802.11 be_20MHz: up to 688.2 Mbps
	802.11 be_40MHz: up to 1376.5 Mbps
	802.11 be_80MHz: up to 2882.4 Mbps
	802.11 be_160MHz: up to 5764.8 Mbps

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1.3 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PCB	Antenna 11	5150~5250	3.12	6.00
		5250~5350	4.73	6.42
		5470~5725	2.94	6.99
		5725~5850	1.09	6.30
	Antenna 12	5150~5250	3.69	6.00
		5250~5350	3.33	6.42
		5470~5725	3.35	6.99
		5725~5850	3.51	6.30
	Antenna 13	5150~5250	2.82	6.00
		5250~5350	3.32	6.42
		5470~5725	2.19	6.99
		5725~5850	2.36	6.30
	Antenna 14	5150~5250	4.06	6.00
		5250~5350	3.43	6.42
		5470~5725	2.98	6.99
		5725~5850	2.89	6.30

Note:

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

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1.4 FCC

Mode: CDD

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT be_EHT 20M	5180~5240	4	29.82 dBm	OFDM
	5260~5320	4	23.36 dBm	OFDMA
	5500~5720	12	22.85 dBm	OFDMA
	5745-5825	5	29.97 dBm	OFDMA
n_HT be_EHT 40M	5190~5230	2	29.97 dBm	OFDMA
	5270~5310	2	23.97 dBm	OFDM
	5510~5710	6	23.93 dBm	OFDMA
	5755-5795	2	29.99 dBm	OFDMA
ac_VHT be_EHT 80M	5210	1	26.68 dBm	OFDMA
	5290	1	23.86 dBm	OFDMA
	5530~5690	3	23.92 dBm	OFDM
	5775	1	29.13 dBm	OFDM
ac_VHT be_EHT 160M	5250	1	23.85 dBm	OFDM
	5570	1	23.97 dBm	OFDM

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Mode: Beamforming

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
n_HT be_EHT 20M	5180~5240	4	29.71 dBm	OFDMA
	5260~5320	4	23.01 dBm	OFDMA
	5500~5720	12	22.58 dBm	OFDMA
	5745-5825	5	29.51 dBm	OFDM
n_HT be_EHT 40M	5190~5230	2	29.84 dBm	OFDMA
	5270~5310	2	23.50 dBm	OFDM
	5510~5710	6	22.93 dBm	OFDMA
	5755-5795	2	29.63 dBm	OFDM
ac_VHT be_EHT 80M	5210	1	26.67 dBm	OFDMA
	5290	1	23.20 dBm	OFDM
	5530~5690	3	22.96 dBm	OFDMA
	5775	1	29.01 dBm	OFDM
ac_VHT be_EHT 160M	5250	1	23.50 dBm	OFDMA
	5570	1	22.95 dBm	OFDMA

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 291074 D02 EMC Measurement v01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC 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.

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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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

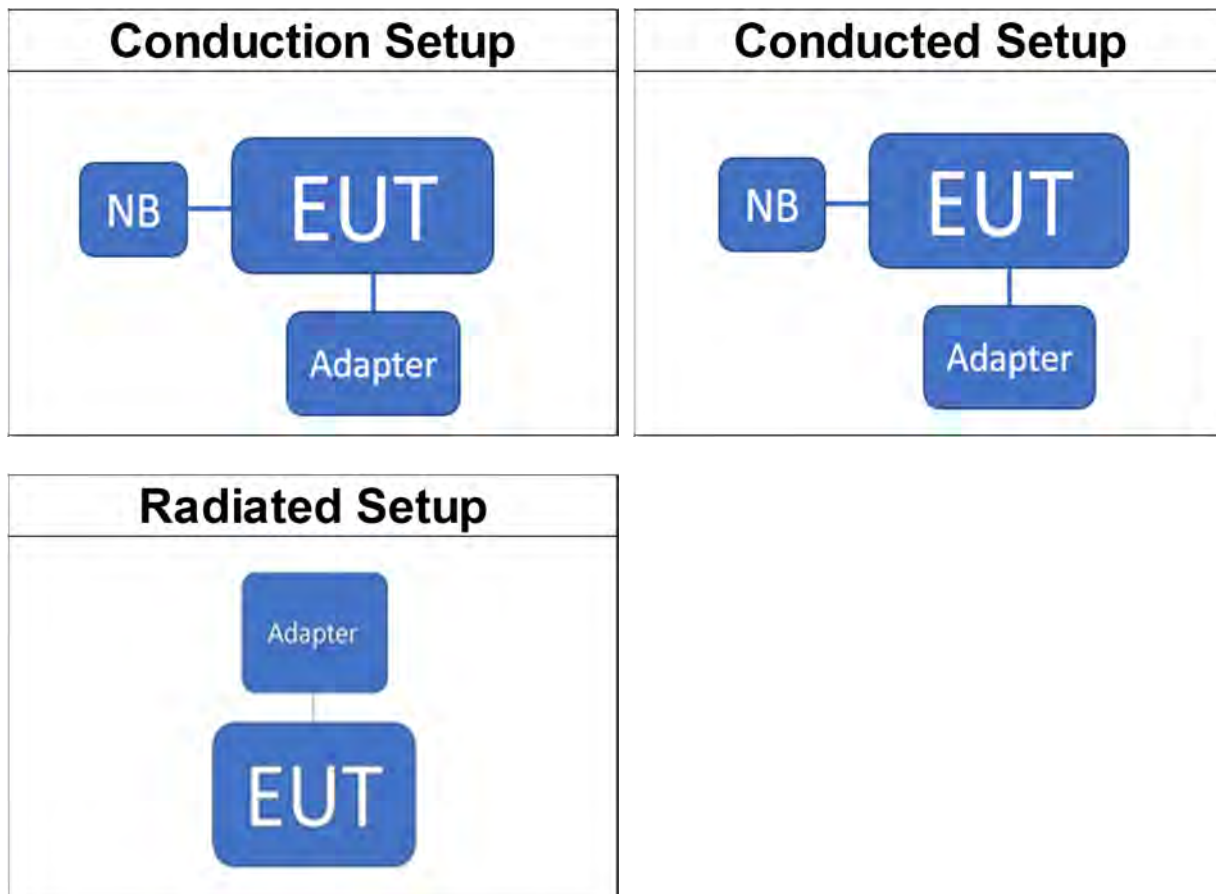
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.

2.5 Test Configuration



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2.6 Control Unit(s)

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	P0002332	N/A	N/A

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	MASS POWER	S065-1B120500VU	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T470	P0001293	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	
CH	Freq. (MHz)
36	5180
40	5200
44	5220
48	5240

40MHz	
CH	Freq. (MHz)
38	5190
46	5230

80MHz	
CH	Freq. (MHz)
42	5210

UNII-2A 5250 MHz ~ 5350MHz

20MHz	
CH	Freq. (MHz)
52	5260
56	5280
60	5300
64	5320

40MHz	
CH	Freq. (MHz)
54	5270
62	5310

80MHz	
CH	Freq. (MHz)
58	5290

160MHz	
CH	Freq. (MHz)
50	5250

UNII-2C 5470 MHz ~ 5725MHz

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

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

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

160MHz	
CH	Freq. (MHz)
114	5570

UNII-3 5725 MHz ~ 5850MHz

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

40MHz	
CH	Freq. (MHz)
151	5755
159	5795

80MHz	
CH	Freq. (MHz)
155	5775

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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.

Mode: CDD

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
v	802.11 a	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 n	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 ac	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 ax	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 be	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX

Mode: Beamforming

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
	802.11 a		Ch0		Ch1		Ch2		Ch3	1TX	4TX
v	802.11 n	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 ac	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 ax	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX
v	802.11 be	v	Ch0	v	Ch1	v	Ch2	v	Ch3	1TX	4TX

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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Mode: CDD

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE		ANTENNA
		CHANNEL	CHANNEL		(Mbps)	PORT	
802.11a	5180-5240	36 to 48	36,44,48	OFDM	6		4TX
	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				
802.11n_HT20	5180-5240	36 to 48	36,44,48	OFDM	MCS0		4TX
	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				
802.11n_HT40	5190-5230	38 to 46	38,46	OFDM	MCS0		4TX
	5270-5310	54 to 62	54,62				
	5510-5710	102 to 142	102,110,134,142				
	5755-5795	151 to 159	151,159				
802.11ac_VHT80	5210	42	42	OFDM	MCS0		4TX
	5290	58	58				
	5530-5690	106 to 138	106,122,138				
	5775	155	155				
802.11ac_VHT160	5250	50	50	OFDM	MCS0		4TX
	5570	114	114				
CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGURATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL			(Mbps)	PORT
802.11be_EHT20	5180-5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	4TX
	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				
802.11be_EHT40	5190-5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	4TX
	5270-5310	54 to 62	54,62				
	5510-5710	102 to 142	102,110,134,142				
	5755-5795	151 to 159	151,159				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU	MCS0	4TX
	5290	58	58				
	5530-5690	106 to 138	106,122,138				
	5775	155	155				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU	MCS0	4TX
	5570	114	114				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180-5240	36 to 48	44	OFDM	6	4TX
	5260-5320	52 to 64	60			
	5500-5720	100 to 144	140			
	5745-5825	149 to 165	157			
802.11be_EHT160	5250	50	50	OFDMA	MCS0	4TX
	5570	144	144			
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	4TX
	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			
802.11n_HT20	5180-5240	36 to 48	36,44,48	OFDM	MCS0	4TX
	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			
802.11n_HT40	5190-5230	38 to 46	38,46	OFDM	MCS0	4TX
	5270-5310	54 to 62	54,62			
	5510-5710	102 to 142	102,110,134,142			
	5755-5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	4TX
	5290	58	58			
	5530-5690	106 to 138	106,122,138			
	5775	155	155			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	4TX
	5570	114	114			

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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	MCS0	4TX
	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				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	4TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU	MCS0	4TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU	MCS0	4TX
	5570	114	114				

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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Mode: Beamforming

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA	
		CHANNEL	CHANNEL		(Mbps)	PORT	
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	4TX	
	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				
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	4TX	
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ac_VHT80	5210	42	42	OFDM	MCS0	4TX	
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11ac_VHT160	5250	50	50	OFDM	MCS0	4TX	
	5570	114	114				
CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	RU CONFIGURATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL			(Mbps)	PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU	MCS0	4TX
	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				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	4TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU	MCS0	4TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU	MCS0	4TX
	5570	114	114				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	4TX
	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			
802.11be_EHT160	5250	50	50	OFDMA	MCS0	4TX
	5570	144	144			
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	4TX
	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			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	4TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	4TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	4TX
	5570	114	114			

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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	MCS0	4TX
	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				
802.11be_EHT40	5190~5230	38 to 46	38,46	OFDMA	FULL RU	MCS0	4TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11be_EHT80	5210	42	42	OFDMA	FULL RU	MCS0	4TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11be_EHT160	5250	50	50	OFDMA	FULL RU	MCS0	4TX
	5570	114	114				

Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/19/2023	06/18/2024
EMI Test Receiver	R&S	ESCI	101342	04/24/2023	04/23/2024
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted F					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/29/2023	06/28/2024
Power Meter	Anritsu	ML2496A	1804001	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726104	03/16/2023	03/15/2024
Power Sensor	Anritsu	MA2411B	1726107	03/16/2023	03/15/2024
Power Meter	Anritsu	ML2496A	1804002	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726105	04/26/2023	04/25/2024
Power Sensor	Anritsu	MA2411B	1726106	04/26/2023	04/25/2024
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF06	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF16	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF22	11/16/2022	11/15/2023
Attenuator	Woken	WATT-218FS-10	RF23	11/16/2022	11/15/2023
DC Block	PASTERNAK	PE8210	RF153	11/16/2022	11/15/2023
Coaxial Cables	Woken	00100A1F2A196C	RF53	11/16/2022	11/15/2023

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6.3 Radiated Measurement

Radiated Emission Test Site:					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/17/2023	01/16/2024
Horn Antenna	Schwarzbeck	BBHA9170	185	08/21/2023	08/20/2024
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024
Loop Antenna	ETS.LINDGREN	6502	14303	05/23/2023	05/22/2024
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/17/2023	07/16/2024
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2023	03/14/2024
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2023	03/14/2024

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

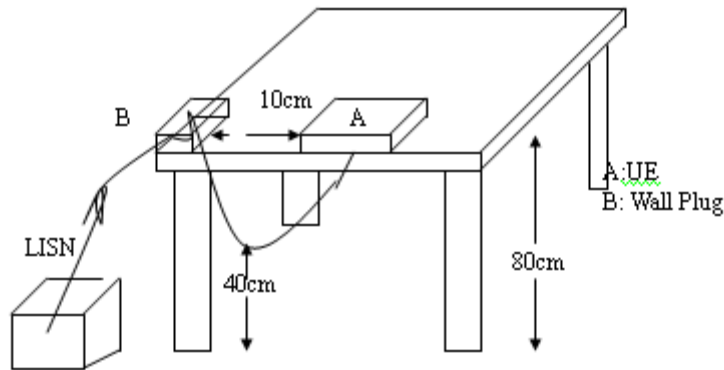
Note

- 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



7.4 Measurement Procedure

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

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7.5 Measurement Result

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

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

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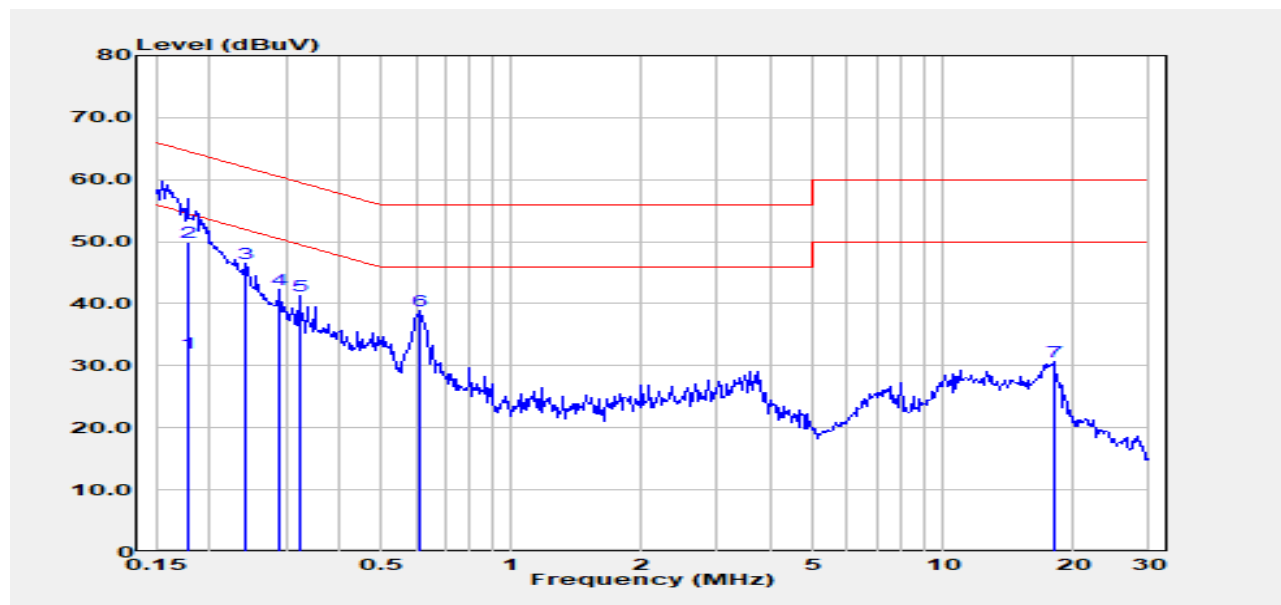
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2308001923E2	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2023-10-11
Power	:120V60Hz	Temp./Humi.	:22.5°C/54%
Probe	:L1	Engineer	:Temo Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.178	Average	21.80	10.28	32.08	54.59	-22.51
0.178	QP	39.60	10.28	49.88	64.59	-14.71
0.241	Peak	36.13	10.29	46.42	62.05	-15.63
0.291	Peak	32.11	10.29	42.40	60.50	-18.10
0.322	Peak	30.91	10.30	41.20	59.65	-18.45
0.609	Peak	28.49	10.33	38.82	56.00	-17.18
18.025	Peak	19.87	10.77	30.64	60.00	-29.36

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Report Number :TERF2308001923E2

Test Site :Conduction C

Test Mode :5G

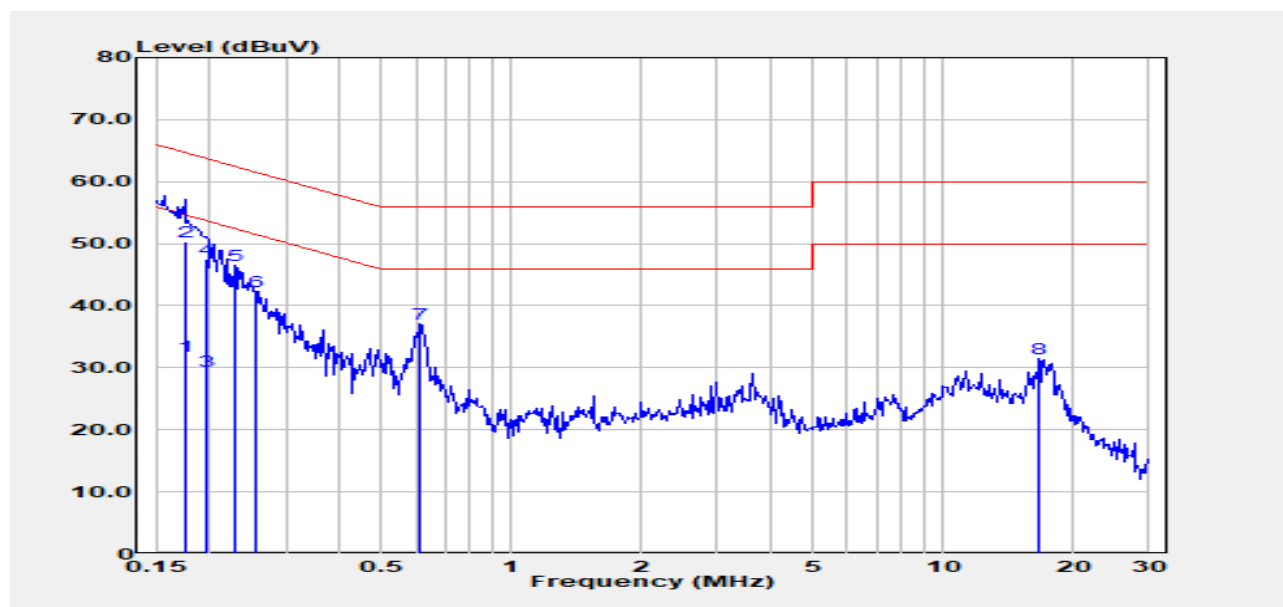
Test Date :2023-10-11

Power :120V60Hz

Temp./Humi. :22.5℃/54%

Probe :N

Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.175	Average	21.30	10.65	31.95	54.73	-22.78
0.175	QP	39.70	10.65	50.35	64.73	-14.38
0.197	Average	18.90	10.65	29.55	53.74	-24.19
0.197	QP	36.80	10.65	47.45	63.74	-16.29
0.227	Peak	35.81	10.64	46.45	62.54	-16.09
0.256	Peak	31.75	10.64	42.39	61.56	-19.17
0.614	Peak	26.49	10.62	37.11	56.00	-18.89
16.699	Peak	20.39	11.11	31.49	60.00	-28.51

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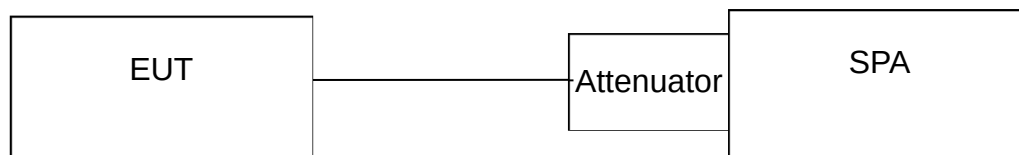
8 EMISSION BANDWIDTH MEASUREMENT

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.

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.
 - 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

Mode: CDD

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.97	13.220
5220	18.37	12.640
5240	18.49	12.670
5260	18.41	12.650
5300	20.11	13.030
5320	18.14	12.590
5500	21.57	13.340
5580	18.26	12.620
5700	19.33	12.860
5720(U-NII 2C)	14.56	11.630
5720(U-NII 3)	4.56	6.590

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.29	11.840
5785	16.42	12.150
5825	15.70	11.960

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.123199	< 5250
5745	5736.766176	> 5725

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802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.23	13.270
5220	18.18	12.600
5240	18.34	12.630
5260	18.32	12.630
5300	18.20	12.600
5320	18.95	12.780
5500	19.73	12.950
5580	20.42	13.100
5700	18.25	12.610
5720(U-NII 2C)	19.86	12.980
5720(U-NII 3)	9.86	9.940

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.34	12.130
5785	16.38	12.140
5825	16.33	12.130

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.135845	< 5250
5745	5736.659702	> 5725

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802.11a_Ch2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.66	12.940
5220	18.53	12.680
5240	18.14	12.590
5260	18.24	12.610
5300	22.00	13.420
5320	19.66	12.940
5500	18.47	12.660
5580	18.31	12.630
5700	21.36	13.300
5720(U-NII 2C)	16.48	12.170
5720(U-NII 3)	6.48	8.120

802.11a_Ch2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.30	12.120
5785	16.37	12.140
5825	15.63	11.940

802.11a_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.124470	< 5250
5745	5736.363215	> 5725

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802.11a_Ch3

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.83	13.390
5220	18.20	12.600
5240	18.26	12.620
5260	18.11	12.580
5300	18.41	12.650
5320	18.39	12.650
5500	18.20	12.600
5580	18.22	12.610
5700	20.01	13.010
5720(U-NII 2C)	14.90	11.730
5720(U-NII 3)	4.90	6.900

802.11a_Ch3

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.92	12.020
5785	16.36	12.140
5825	15.51	11.910

802.11a_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.116342	< 5250
5745	5736.735301	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.58	12.920
5220	18.93	12.770
5240	18.96	12.780
5260	18.91	12.770
5300	20.56	13.130
5320	21.01	13.220
5500	21.64	13.350
5580	18.83	12.750
5700	19.11	12.810
5720(U-NII 2C)	16.48	12.170
5720(U-NII 3)	6.48	8.120

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.91	12.280
5785	17.63	12.460
5825	17.62	12.460

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.706573	< 5250
5745	5736.169240	> 5725

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802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.87	12.760
5220	18.82	12.750
5240	18.91	12.770
5260	18.87	12.760
5300	18.83	12.750
5320	18.81	12.740
5500	20.33	13.080
5580	19.03	12.790
5700	18.90	12.760
5720(U-NII 2C)	19.93	13.000
5720(U-NII 3)	9.93	9.970

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.57	12.450
5785	17.63	12.460
5825	17.58	12.450

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.714156	< 5250
5745	5735.977337	> 5725

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802.11n_HT20_Ch2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.90	12.760
5220	18.98	12.780
5240	18.83	12.750
5260	18.88	12.760
5300	20.14	13.040
5320	19.06	12.800
5500	18.97	12.780
5580	18.94	12.770
5700	21.22	13.270
5720(U-NII 2C)	18.27	12.620
5720(U-NII 3)	8.27	9.170

802.11n_HT20_Ch2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.18	12.350
5785	17.68	12.470
5825	17.63	12.460

802.11n_HT20_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.718049	< 5250
5745	5736.095331	> 5725

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802.11n_HT20_Ch3

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.13	12.820
5220	18.88	12.760
5240	18.90	12.760
5260	18.83	12.750
5300	20.64	13.150
5320	19.26	12.850
5500	18.96	12.780
5580	18.97	12.780
5700	22.58	13.540
5720(U-NII 2C)	14.48	11.610
5720(U-NII 3)	4.48	6.510

802.11n_HT20_Ch3

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.19	12.350
5785	17.61	12.460
5825	17.61	12.460

802.11n_HT20_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.700817	< 5250
5745	5736.185905	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.30	15.830
5230	38.24	15.830
5270	38.47	15.850
5310	38.20	15.820
5510	41.81	16.210
5550	38.17	15.820
5670	38.29	15.830
5710(U-NII 2C)	34.83	15.420
5710(U-NII 3)	4.83	6.840

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.11	15.450
5795	36.33	15.600

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.850882	< 5250
5755	5736.987902	> 5725

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802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	37.99	15.800
5230	37.99	15.800
5270	38.07	15.810
5310	37.91	15.790
5510	38.16	15.820
5550	44.13	16.450
5670	41.94	16.230
5710(U-NII 2C)	43.73	16.410
5710(U-NII 3)	13.73	11.380

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.46	15.370
5795	36.40	15.610

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.882401	< 5250
5755	5736.935738	> 5725

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802.11n_HT40_Ch2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.29	15.830
5230	37.89	15.790
5270	37.94	15.790
5310	38.19	15.820
5510	38.25	15.830
5550	38.07	15.810
5670	39.07	15.920
5710(U-NII 2C)	34.19	15.340
5710(U-NII 3)	4.19	6.220

802.11n_HT40_Ch2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.85	15.300
5795	36.00	15.560

802.11n_HT40_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.874075	< 5250
5755	5737.051710	> 5725

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802.11n_HT40_Ch3

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.08	15.810
5230	38.02	15.800
5270	38.04	15.800
5310	38.20	15.820
5510	38.61	15.870
5550	37.97	15.790
5670	38.33	15.840
5710(U-NII 2C)	34.06	15.320
5710(U-NII 3)	4.06	6.080

802.11n_HT40_Ch3

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.67	15.400
5795	36.38	15.610

802.11n_HT40_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.864961	< 5250
5755	5737.113175	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	85.55	19.320
5290	93.00	19.680
5530	93.53	19.710
5610	78.68	18.960
5690(U-NII 2C)	74.46	18.720
5690(U-NII 3)	4.46	6.490

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.13	18.760

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.695451	< 5250
5775	5737.376791	> 5725

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802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	86.77	19.380
5290	93.75	19.720
5530	94.23	19.740
5610	78.57	18.950
5690(U-NII 2C)	74.26	18.710
5690(U-NII 3)	4.26	6.290

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.18	18.760

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.608433	< 5250
5775	5737.252745	> 5725

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802.11ac_VHT80_Ch2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.68	19.070
5290	94.24	19.740
5530	84.31	19.260
5610	78.68	18.960
5690(U-NII 2C)	74.27	18.710
5690(U-NII 3)	4.27	6.310

802.11ac_VHT80_Ch2

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	70.03	18.450

802.11ac_VHT80_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.682539	< 5250
5775	5737.318081	> 5725

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802.11ac_VHT80_Ch3

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	87.50	19.420
5290	94.23	19.740
5530	84.93	19.290
5610	78.59	18.950
5690(U-NII 2C)	74.35	18.710
5690(U-NII 3)	4.35	6.390

802.11ac_VHT80_Ch3

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.87	18.680

802.11ac_VHT80_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.828747	< 5250
5775	5737.301461	> 5725

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802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	165.30	22.180
5570	165.30	22.180

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.70	22.170
5570	164.00	22.150

802.11ac_VHT160_Ch2

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.60	22.160
5570	168.50	22.270

802.11ac_VHT160_Ch3

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	164.50	22.160
5570	166.50	22.210

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802.11be_EHT20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	19.73	12.950
5220	full	19.73	12.950
5240	full	19.72	12.950
5260	full	19.82	12.970
5300	full	19.74	12.950
5320	full	19.86	12.980
5500	full	19.74	12.950
5580	full	19.75	12.960
5700	full	19.80	12.970
5720 (U-NII 2C)	full	15.68	11.950
5720 (U-NII 3)	full	5.68	7.540

802.11be_EHT20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.07	12.570
5785	full	18.57	12.690
5825	full	18.78	12.740

802.11be_EHT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.347672	< 5250
5745	5735.490886	> 5725

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802.11be_EHT20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	19.63	12.930
5220	full	19.76	12.960
5240	full	19.80	12.970
5260	full	19.86	12.980
5300	full	19.88	12.980
5320	full	19.80	12.970
5500	full	20.17	13.050
5580	full	19.70	12.940
5700	full	19.71	12.950
5720 (U-NII 2C)	full	18.84	12.750
5720 (U-NII 3)	full	8.84	9.460

802.11be_EHT20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	16.18	12.090
5785	full	16.69	12.220
5825	full	19.08	12.810

802.11be_EHT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.378057	< 5250
5745	5735.316649	> 5725

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802.11be_EHT20_Ch2

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	19.80	12.970
5220	full	19.76	12.960
5240	full	19.78	12.960
5260	full	19.75	12.960
5300	full	19.83	12.970
5320	full	19.84	12.980
5500	full	19.75	12.960
5580	full	19.80	12.970
5700	full	19.75	12.960
5720 (U-NII 2C)	full	15.82	11.990
5720 (U-NII 3)	full	5.82	7.650

802.11be_EHT20_Ch2

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	16.83	12.260
5785	full	17.88	12.520
5825	full	19.05	12.800

802.11be_EHT20_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.363032	< 5250
5745	5735.477853	> 5725

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802.11be_EHT20_Ch3

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	19.77	12.960
5220	full	19.76	12.960
5240	full	19.72	12.950
5260	full	19.70	12.940
5300	full	20.00	13.010
5320	full	19.83	12.970
5500	full	19.97	13.000
5580	full	19.73	12.950
5700	full	19.75	12.960
5720 (U-NII 2C)	full	14.86	11.720
5720 (U-NII 3)	full	4.86	6.870

802.11be_EHT20_Ch3

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	17.53	12.440
5785	full	18.15	12.590
5825	full	17.83	12.510

802.11be_EHT20_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.359259	< 5250
5745	5735.530775	> 5725

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802.11be_EHT40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	42.70	16.300
5230	full	39.50	15.970
5270	full	39.24	15.940
5310	full	42.61	16.300
5510	full	43.84	16.420
5550	full	39.33	15.950
5670	full	39.31	15.950
5710 (U-NII 2C)	full	36.97	15.680
5710 (U-NII 3)	full	6.97	8.430

802.11be_EHT40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	34.01	15.320
5795	full	38.07	15.810

802.11be_EHT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.786088	< 5250
5755	5736.151462	> 5725

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802.11be_EHT40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	40.43	16.070
5230	full	39.22	15.940
5270	full	39.14	15.930
5310	full	44.67	16.500
5510	full	39.19	15.930
5550	full	39.27	15.940
5670	full	42.81	16.320
5710 (U-NII 2C)	full	39.63	15.980
5710 (U-NII 3)	full	9.63	9.840

802.11be_EHT40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	35.32	15.480
5795	full	37.94	15.790

802.11be_EHT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.702261	< 5250
5755	5736.172355	> 5725

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802.11be_EHT40_Ch2

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	40.75	16.100
5230	full	39.26	15.940
5270	full	39.34	15.950
5310	full	42.96	16.330
5510	full	40.74	16.100
5550	full	39.30	15.940
5670	full	40.67	16.090
5710 (U-NII 2C)	full	35.88	15.550
5710 (U-NII 3)	full	5.88	7.690

802.11be_EHT40_Ch2

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	35.83	15.540
5795	full	37.92	15.790

802.11be_EHT40_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.748914	< 5250
5755	5736.200654	> 5725

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802.11be_EHT40_Ch3

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	41.34	16.160
5230	full	39.29	15.940
5270	full	39.14	15.930
5310	full	41.51	16.180
5510	full	39.93	16.010
5550	full	39.22	15.940
5670	full	39.22	15.940
5710 (U-NII 2C)	full	34.65	15.400
5710 (U-NII 3)	full	4.65	6.670

802.11be_EHT40_Ch3

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	35.05	15.450
5795	full	37.94	15.790

802.11be_EHT40_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.727527	< 5250
5755	5736.212345	> 5725

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802.11be_EHT80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	79.71	19.020
5290	full	80.80	19.070
5530	full	91.99	19.640
5610	full	79.54	19.010
5690 (U-NII 2C)	full	74.85	18.740
5690 (U-NII 3)	full	4.85	6.860

802.11be_EHT80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	75.18	18.760

802.11be_EHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.473866	< 5250
5775	5736.606423	> 5725

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802.11be_EHT80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.46	19.060
5290	full	81.67	19.120
5530	full	87.38	19.410
5610	full	79.56	19.010
5690 (U-NII 2C)	full	77.72	18.910
5690 (U-NII 3)	full	7.72	8.870

802.11be_EHT80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	74.48	18.720

802.11be_EHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.446145	< 5250
5775	5736.405766	> 5725

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802.11be_EHT80_Ch2

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.50	19.060
5290	full	80.76	19.070
5530	full	80.81	19.070
5610	full	79.64	19.010
5690 (U-NII 2C)	full	74.92	18.750
5690 (U-NII 3)	full	4.92	6.920

802.11be_EHT80_Ch2

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	70.06	18.450

802.11be_EHT80_Ch2

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.506511	< 5250
5775	5736.521944	> 5725

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802.11be_EHT80_Ch3

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.96	19.080
5290	full	80.01	19.030
5530	full	85.32	19.310
5610	full	80.13	19.040
5690 (U-NII 2C)	full	74.86	18.740
5690 (U-NII 3)	full	4.86	6.870

802.11be_EHT80_Ch3

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	75.11	18.760

802.11be_EHT80_Ch3

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.507899	< 5250
5775	5736.528816	> 5725

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802.11be_EHT160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.30	22.130
5570	full	162.51	22.110

802.11be_EHT160_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	166.41	22.210
5570	full	164.46	22.160

802.11be_EHT160_Ch2

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	162.28	22.100
5570	full	163.33	22.130

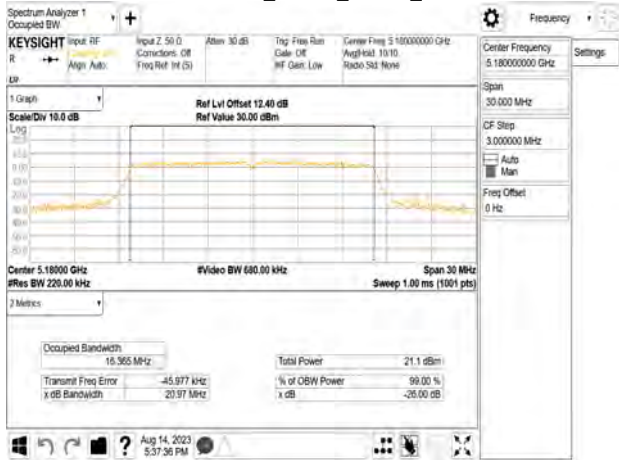
802.11be_EHT160_Ch3

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.55	22.140
5570	full	163.45	22.130

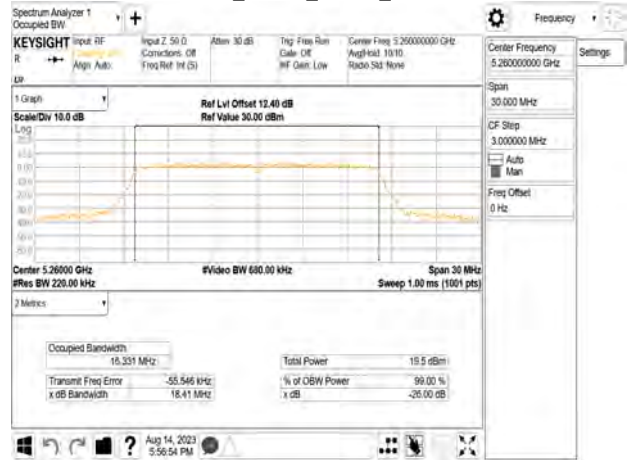
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CDD_802.11a_20MHz_Chain0_5180MHz



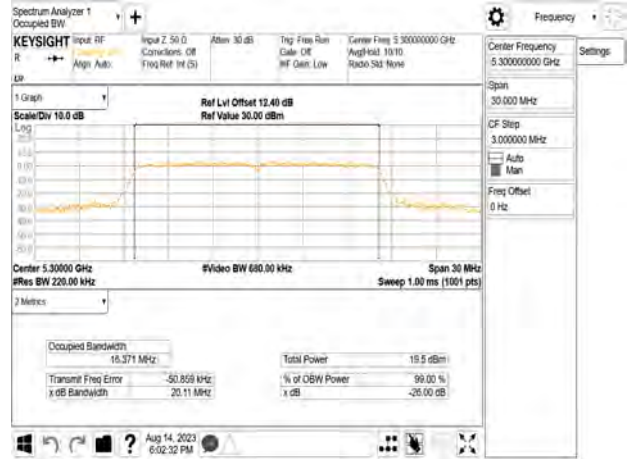
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

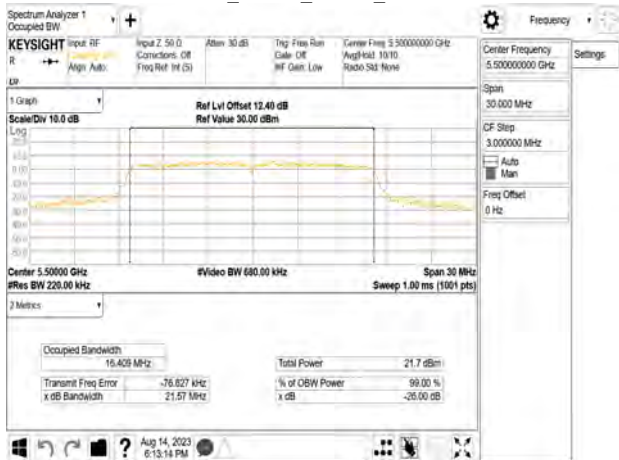


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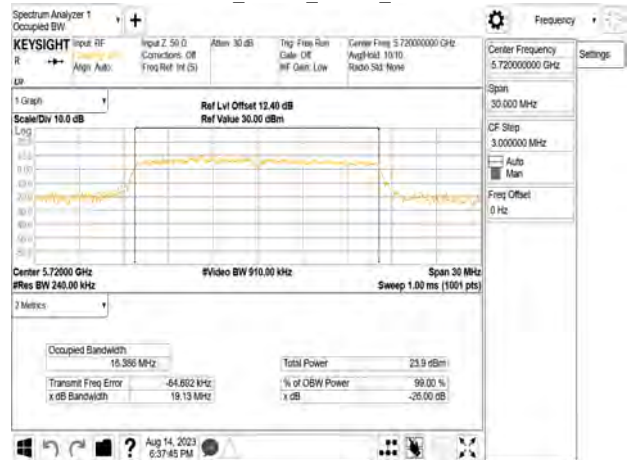
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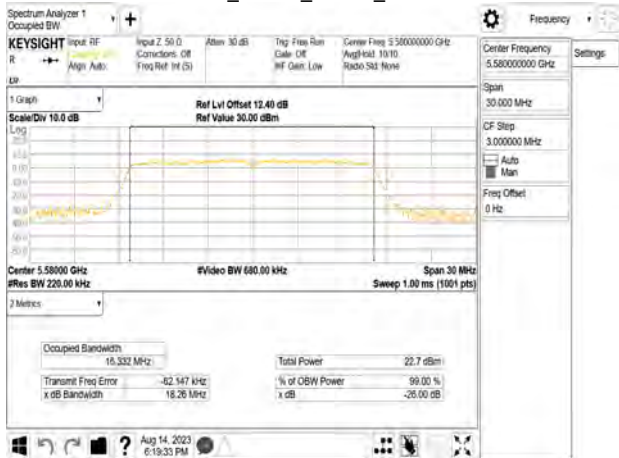
802.11a_20MHz_Chain0_5500MHz



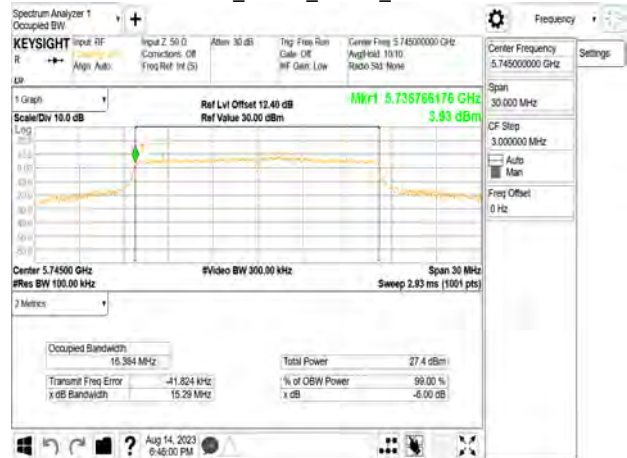
802.11a_20MHz_Chain0_5720MHz



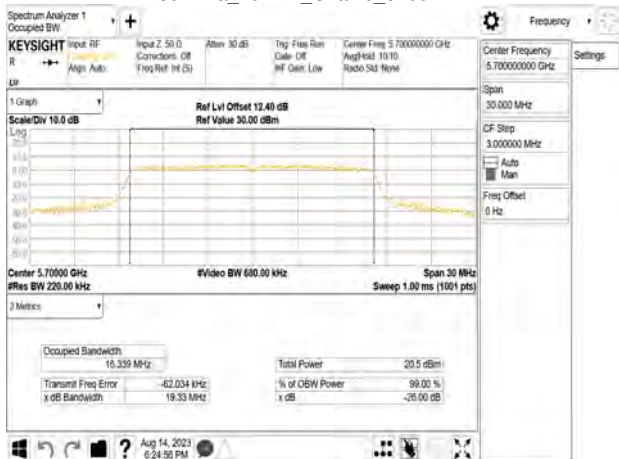
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

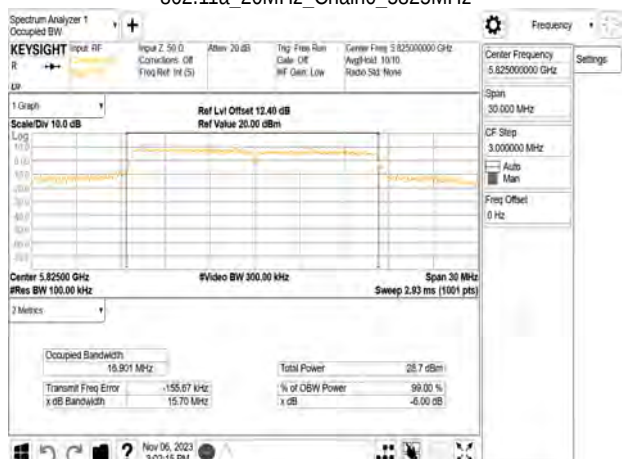


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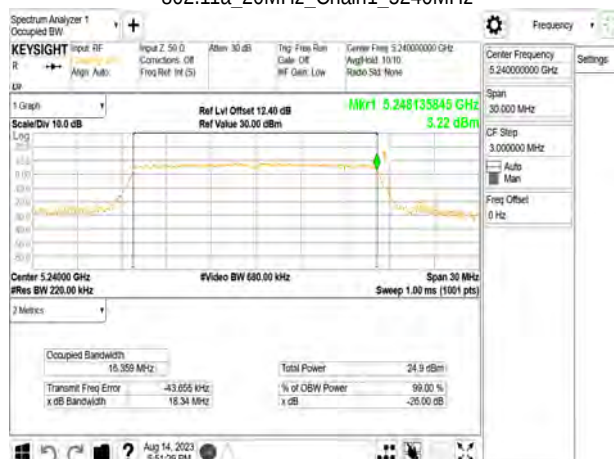
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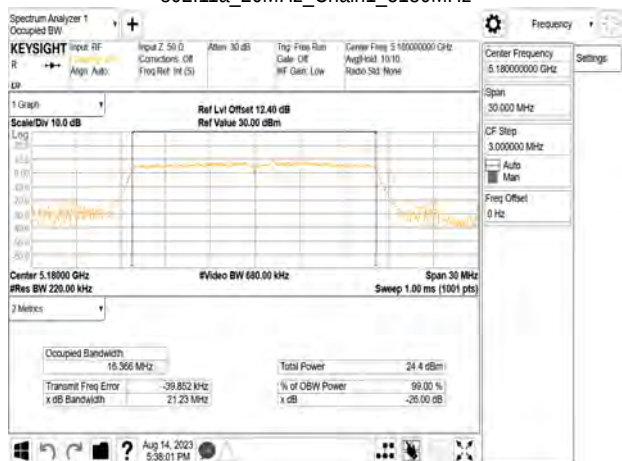
802.11a_20MHz_Chain0_5825MHz



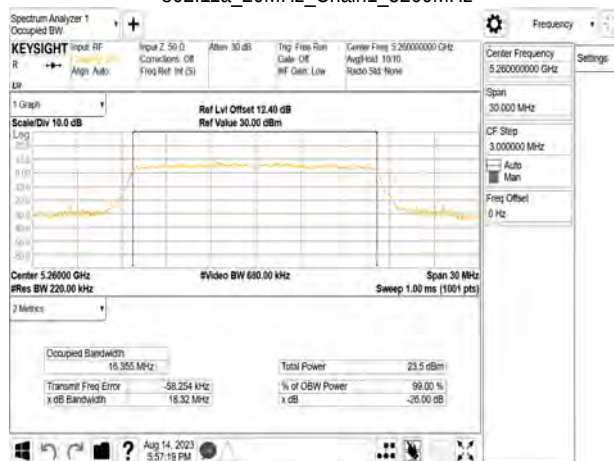
802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



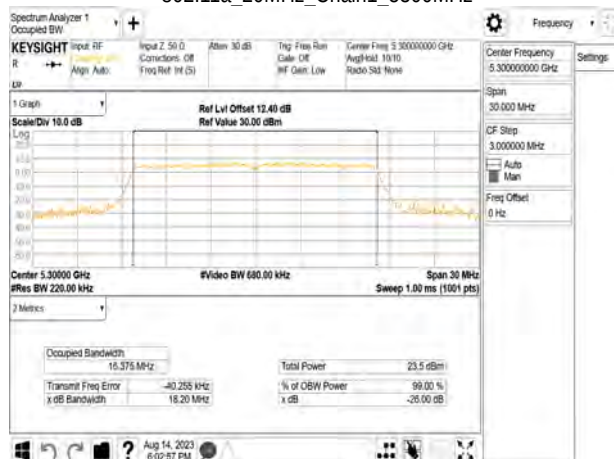
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz

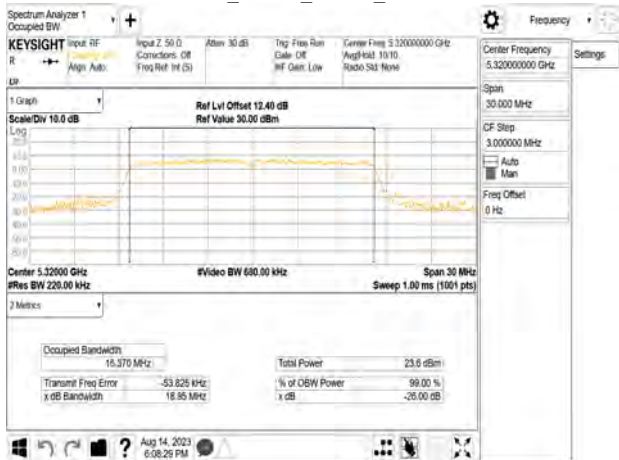


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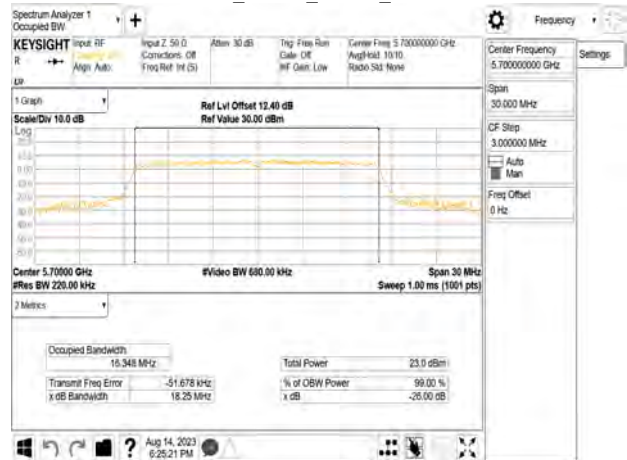
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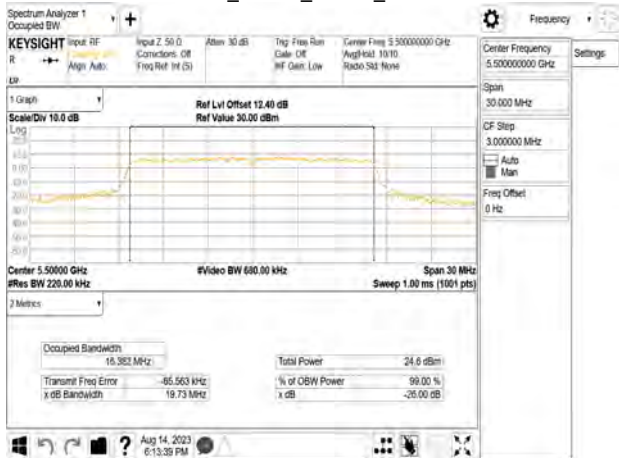
802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



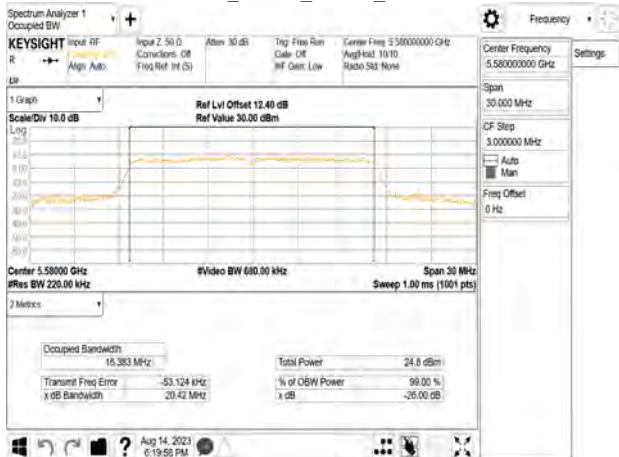
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

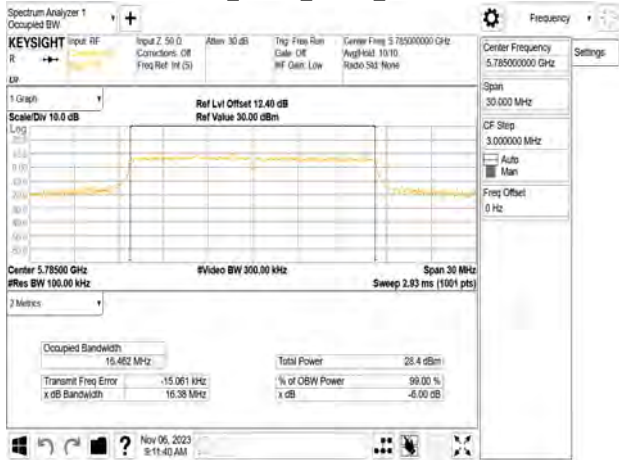


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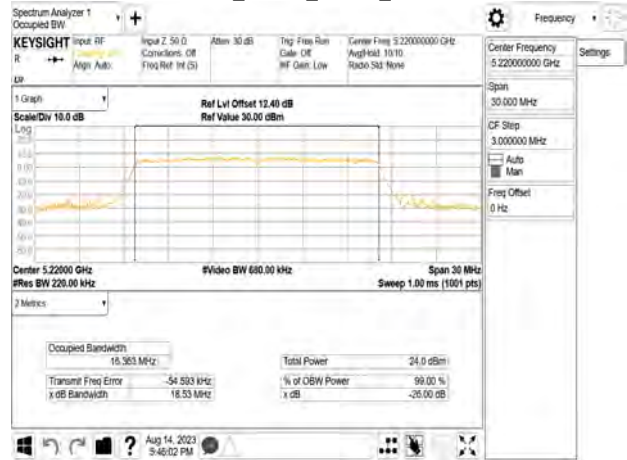
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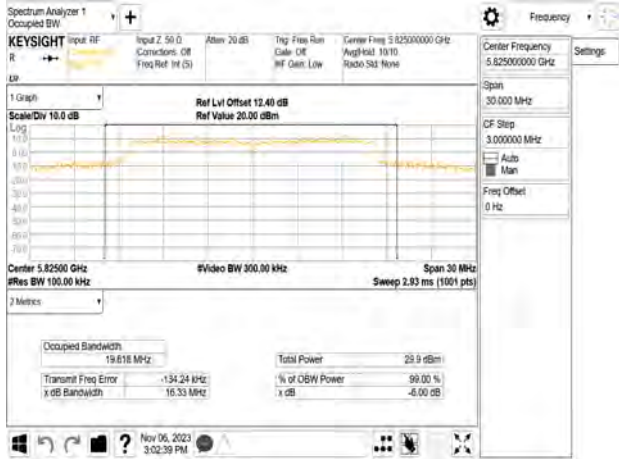
802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain2_5220MHz



802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain2_5240MHz



802.11a_20MHz_Chain2_5180MHz



802.11a_20MHz_Chain2_5260MHz

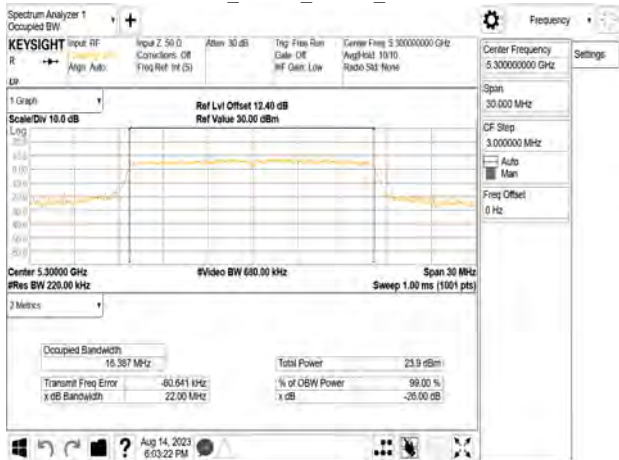


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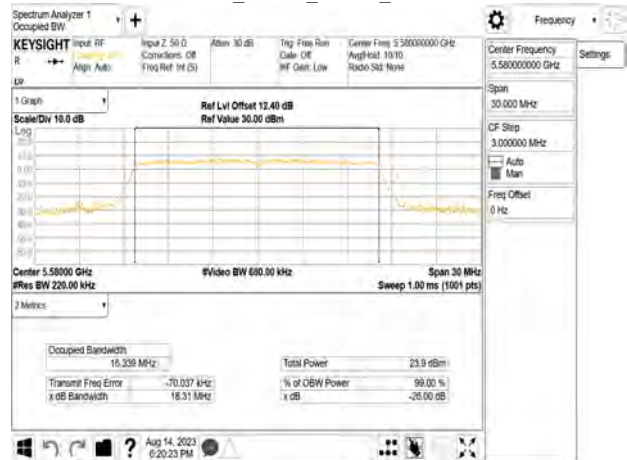
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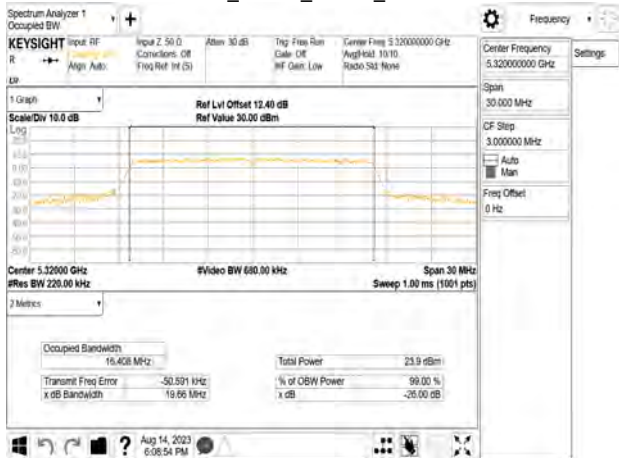
802.11a_20MHz_Chain2_5300MHz



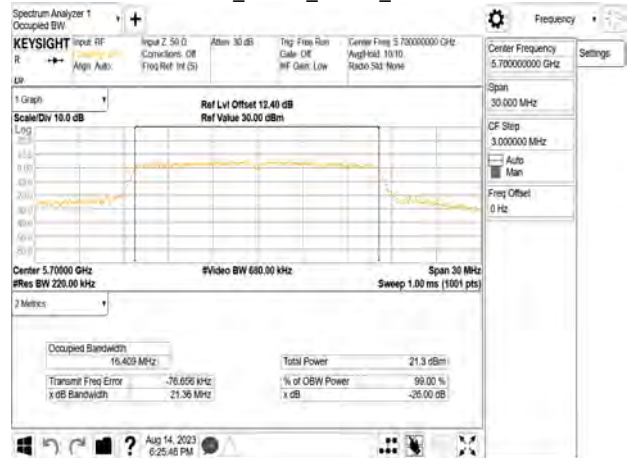
802.11a_20MHz_Chain2_5580MHz



802.11a_20MHz_Chain2_5320MHz



802.11a_20MHz_Chain2_5700MHz



802.11a_20MHz_Chain2_5500MHz



802.11a_20MHz_Chain2_5720MHz



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802.11a_20MHz_Chain2_5745MHz



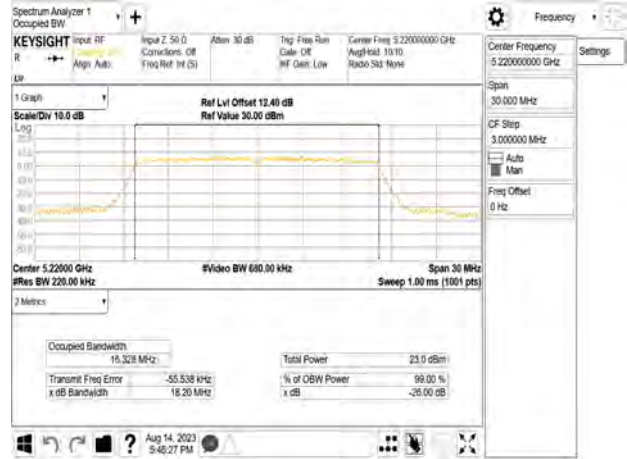
802.11a_20MHz_Chain3_5180MHz



802.11a_20MHz_Chain2_5785MHz



802.11a_20MHz_Chain3_5220MHz



802.11a_20MHz_Chain2_5825MHz



802.11a_20MHz_Chain3_5240MHz

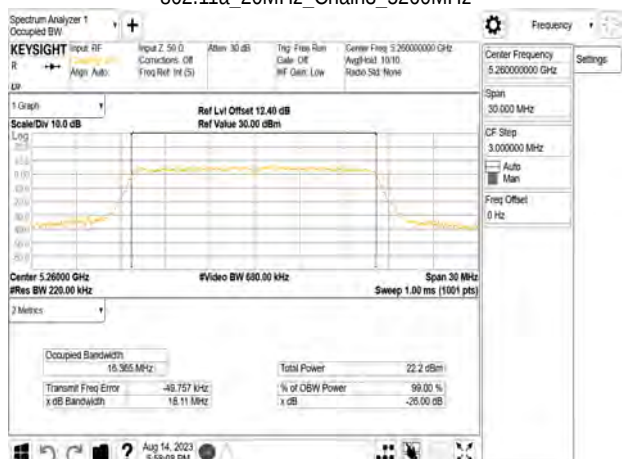


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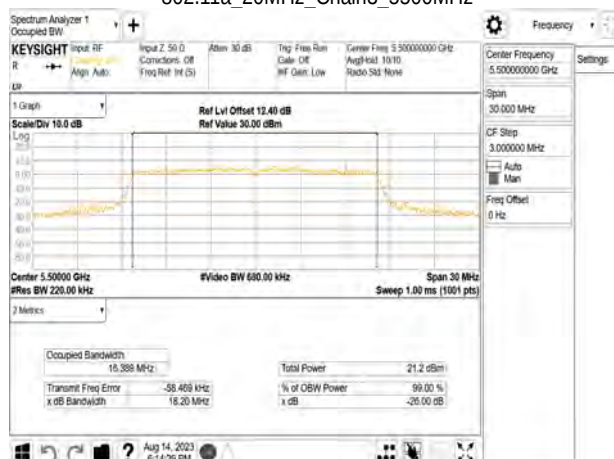
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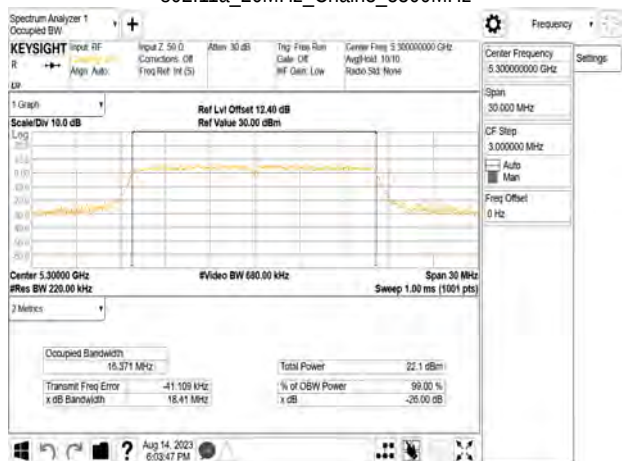
802.11a_20MHz_Chain3_5260MHz



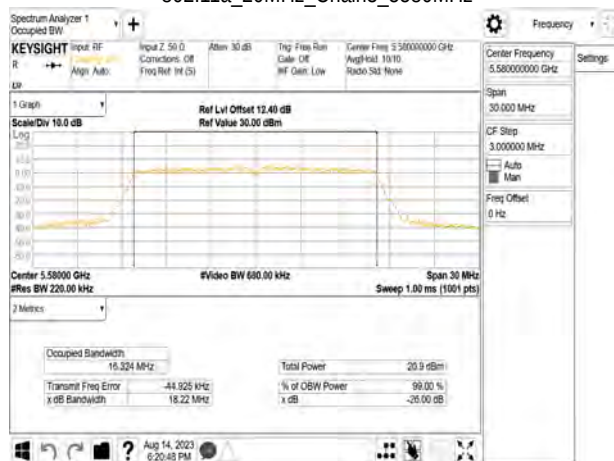
802.11a_20MHz_Chain3_5500MHz



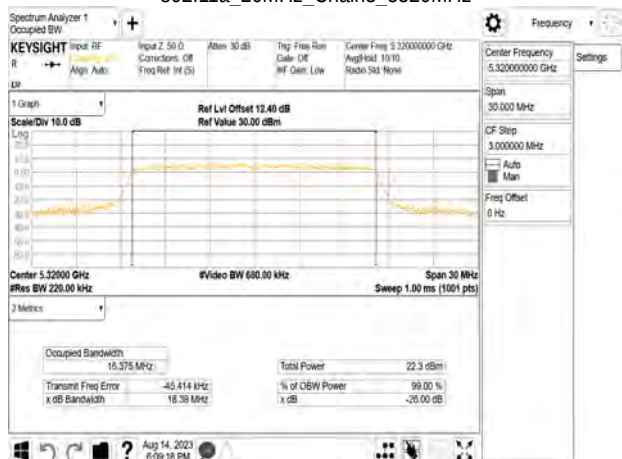
802.11a_20MHz_Chain3_5300MHz



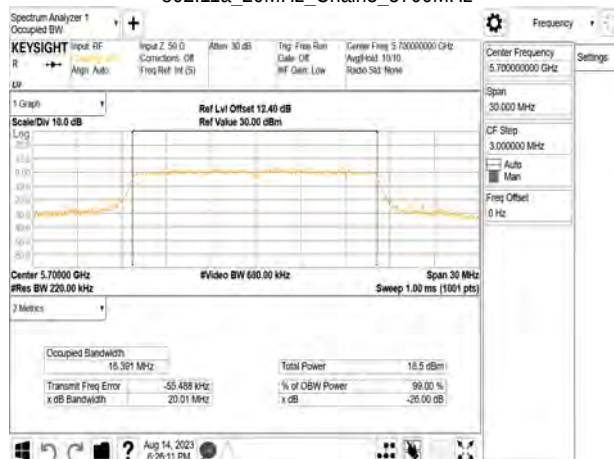
802.11a_20MHz_Chain3_5580MHz



802.11a_20MHz_Chain3_5320MHz



802.11a_20MHz_Chain3_5700MHz

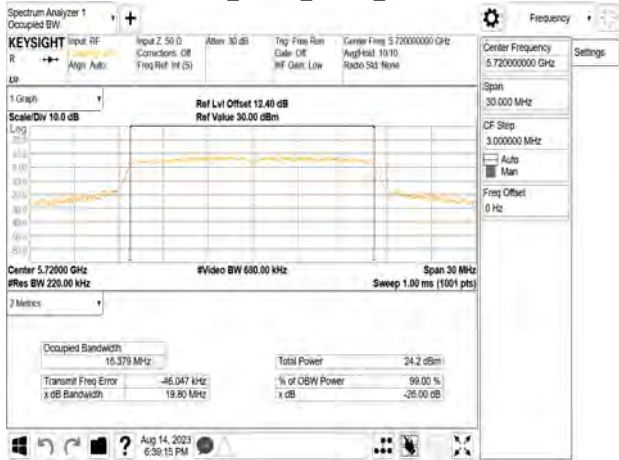


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802.11a_20MHz_Chain3_5720MHz



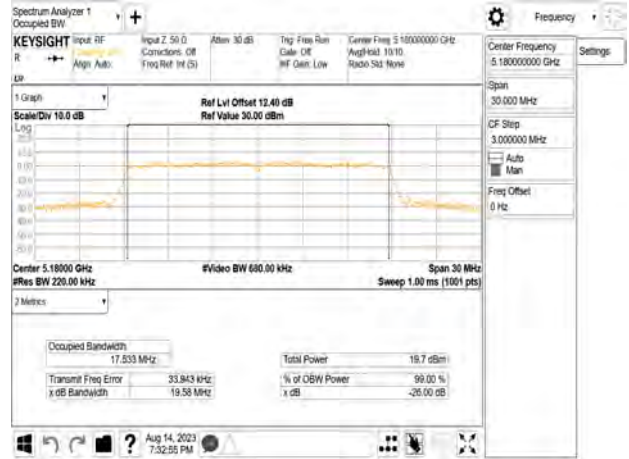
802.11a_20MHz_Chain3_5825MHz



802.11a_20MHz_Chain3_5745MHz



802.11n_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain3_5785MHz



802.11n_20MHz_Chain0_5220MHz



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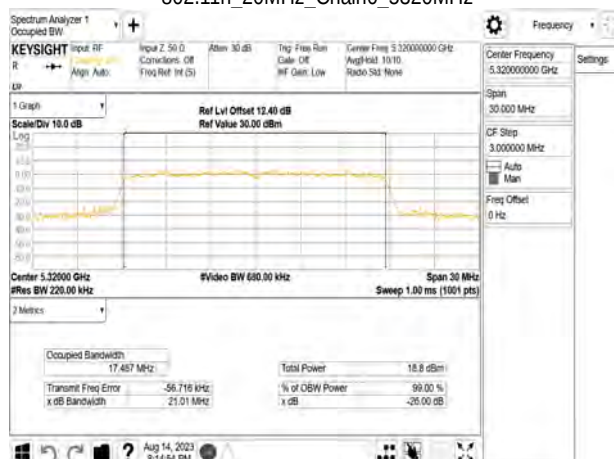
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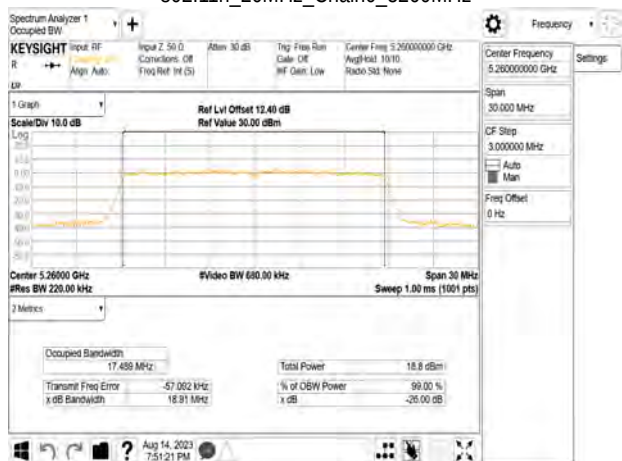
802.11n_20MHz_Chain0_5240MHz



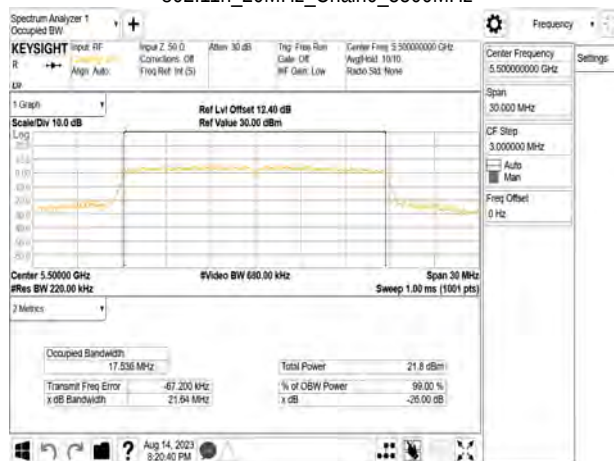
802.11n_20MHz_Chain0_5320MHz



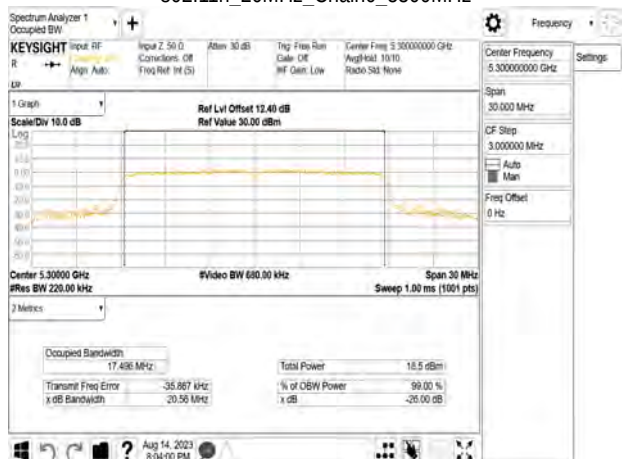
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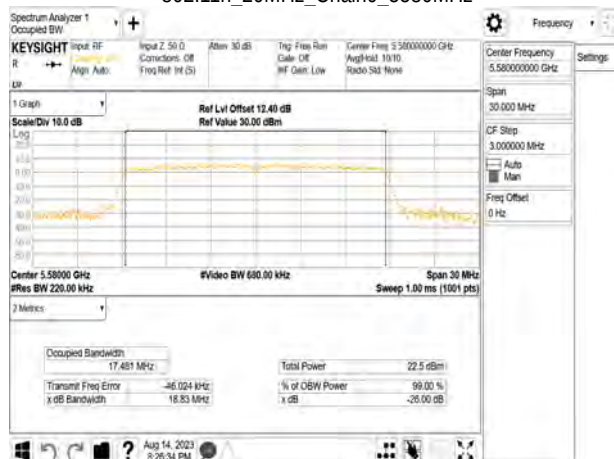
802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz

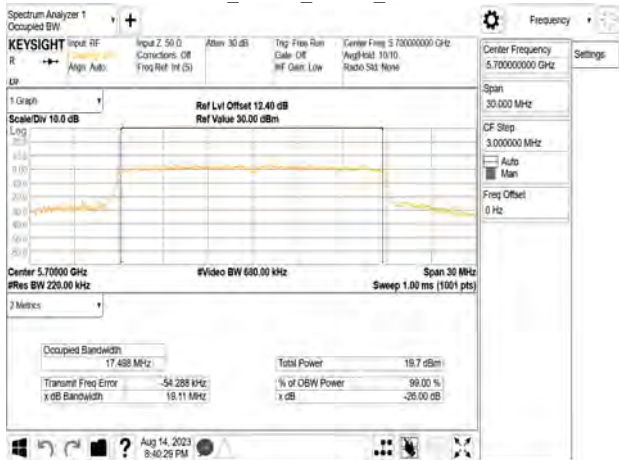


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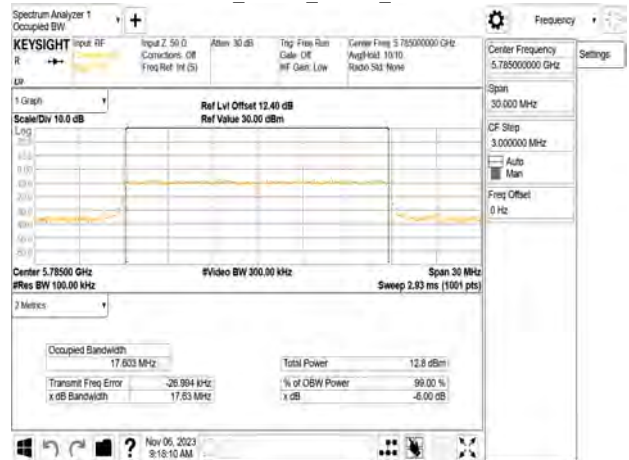
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802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5720MHz



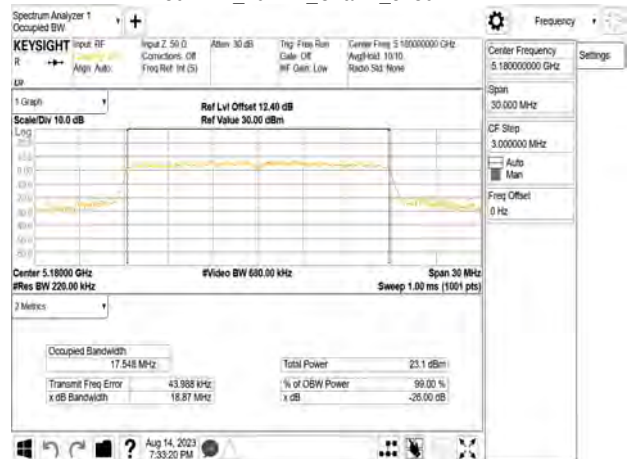
802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain1_5180MHz

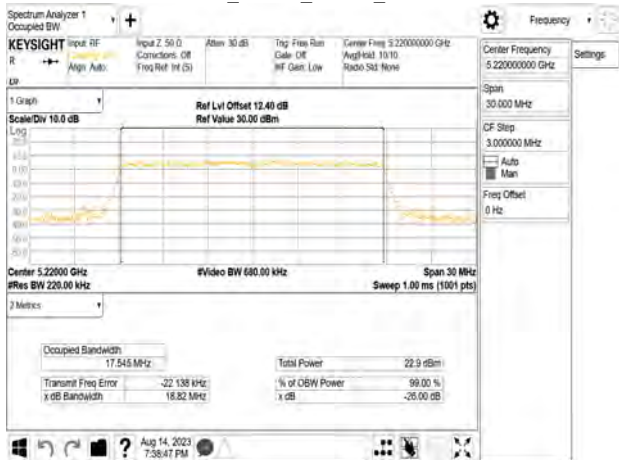


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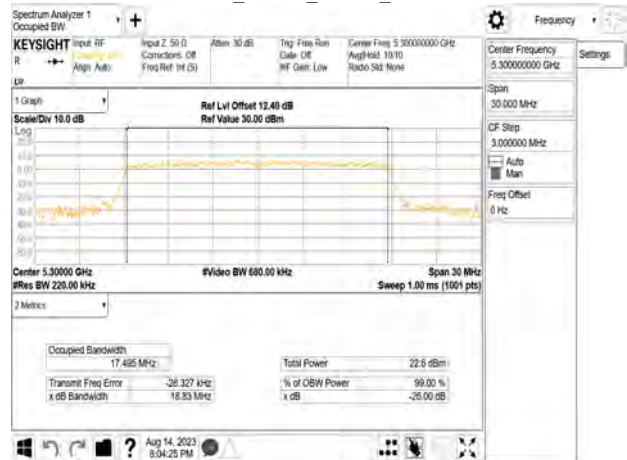
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802.11n_20MHz_Chain1_5220MHz



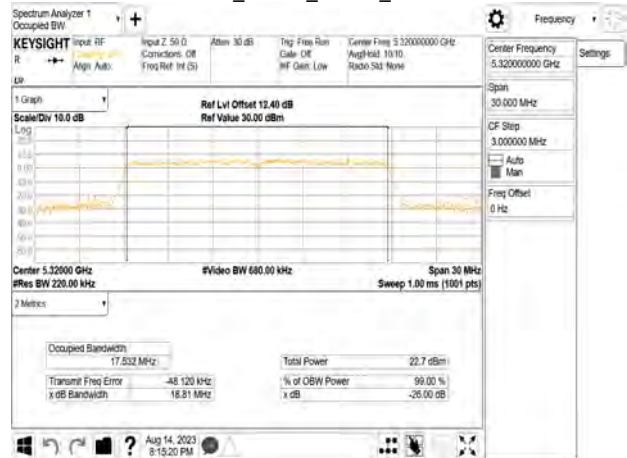
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



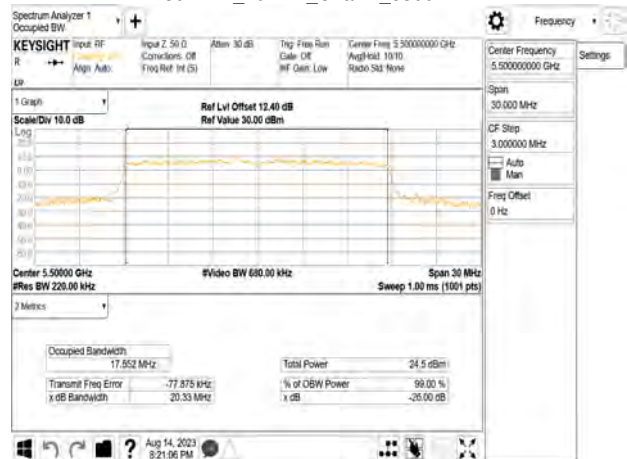
802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5500MHz

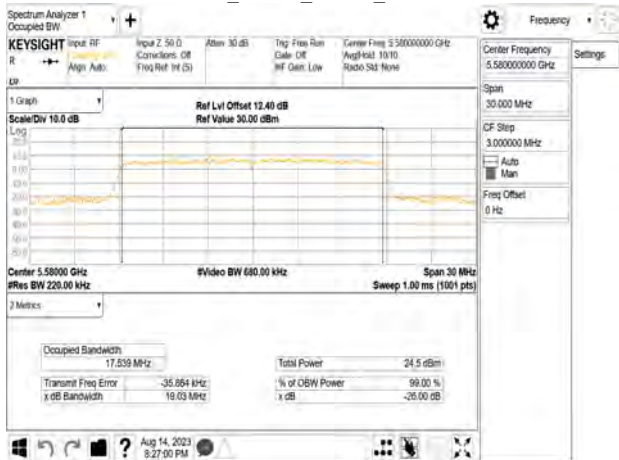


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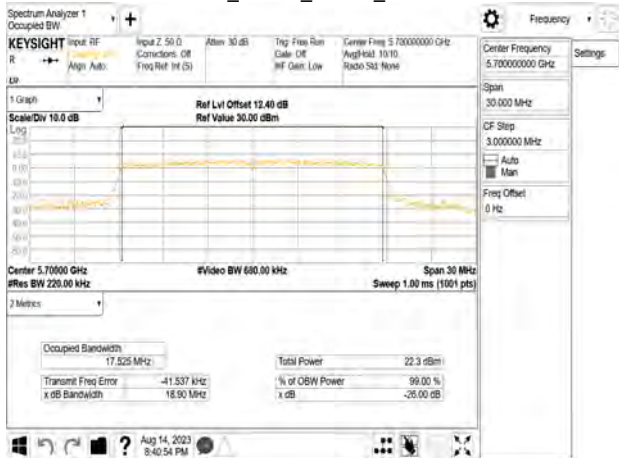
802.11n_20MHz_Chain1_5580MHz



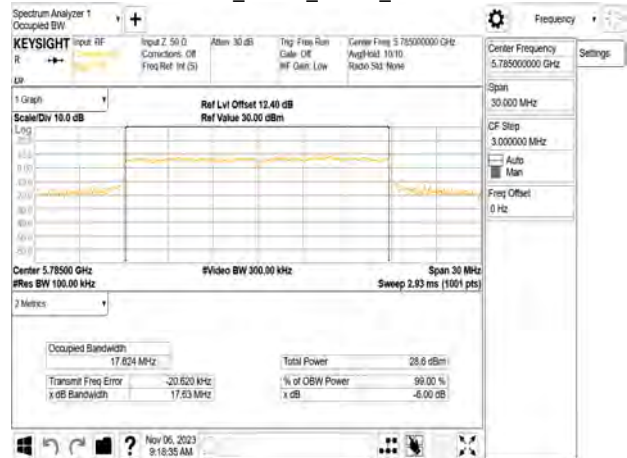
802.11n_20MHz_Chain1_5745MHz



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



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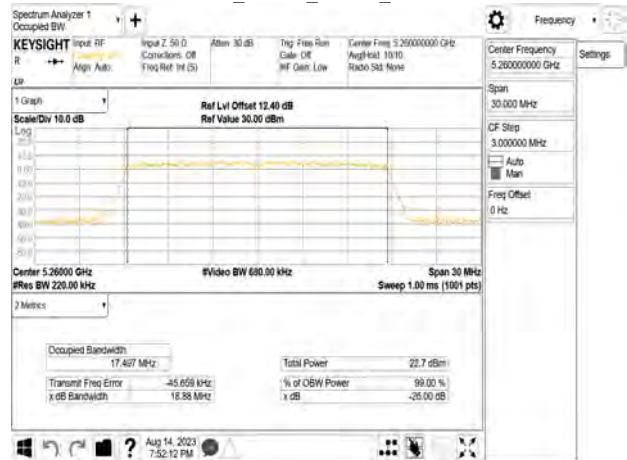
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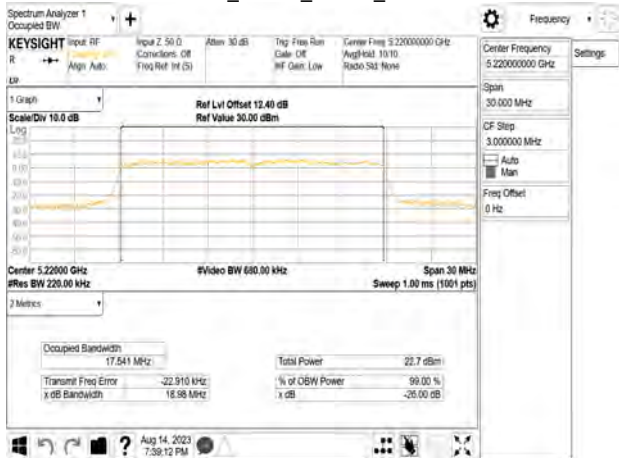
802.11n_20MHz_Chain2_5180MHz



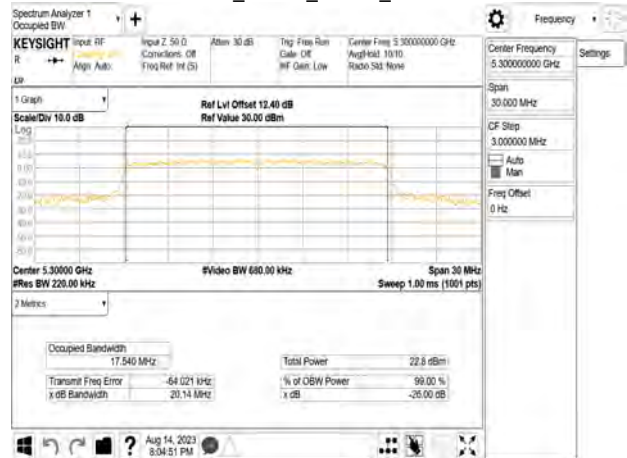
802.11n_20MHz_Chain2_5260MHz



802.11n_20MHz_Chain2_5220MHz



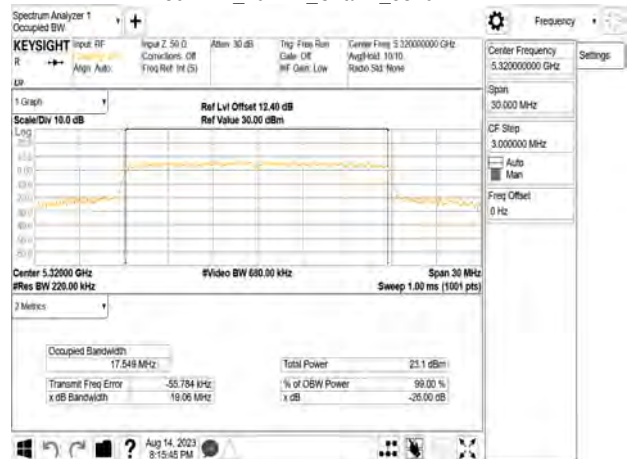
802.11n_20MHz_Chain2_5300MHz



802.11n_20MHz_Chain2_5240MHz



802.11n_20MHz_Chain2_5320MHz



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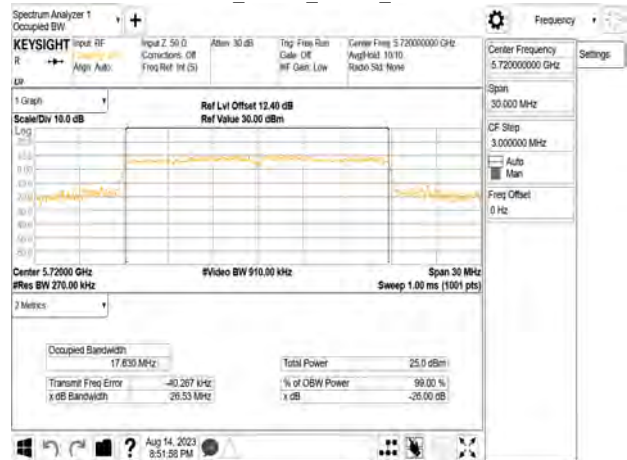
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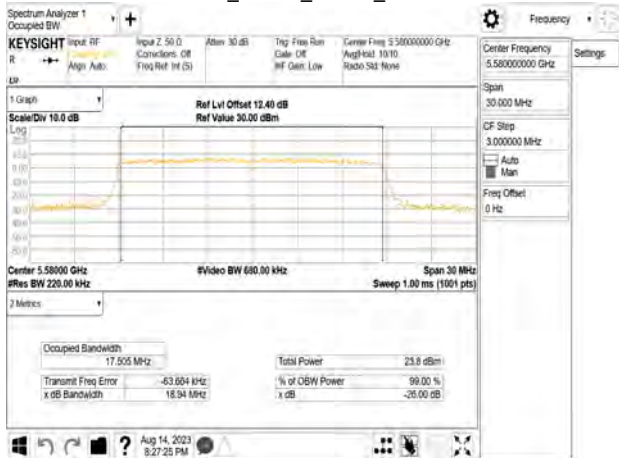
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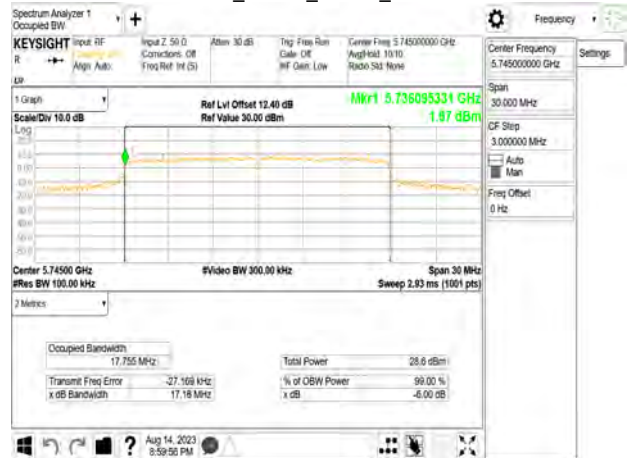
802.11n_20MHz_Chain2_5720MHz



802.11n_20MHz_Chain2_5580MHz



802.11n_20MHz_Chain2_5745MHz



802.11n_20MHz_Chain2_5700MHz



802.11n_20MHz_Chain2_5785MHz

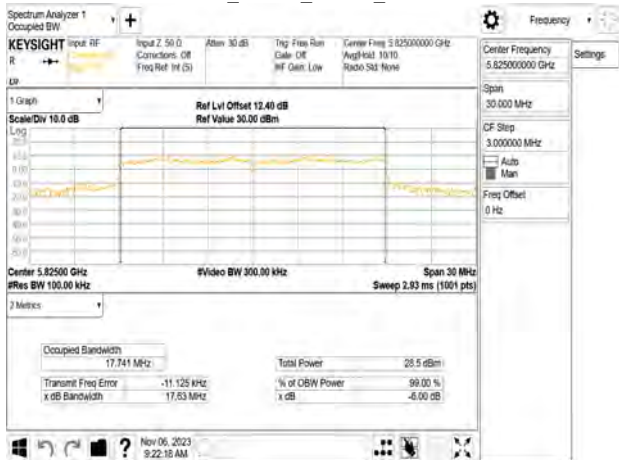


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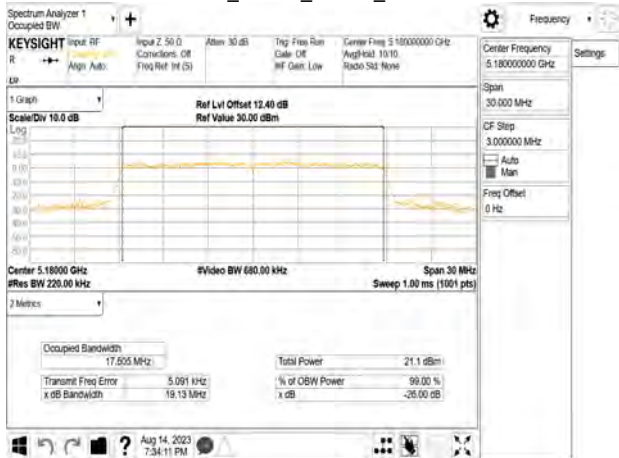
802.11n_20MHz_Chain2_5825MHz



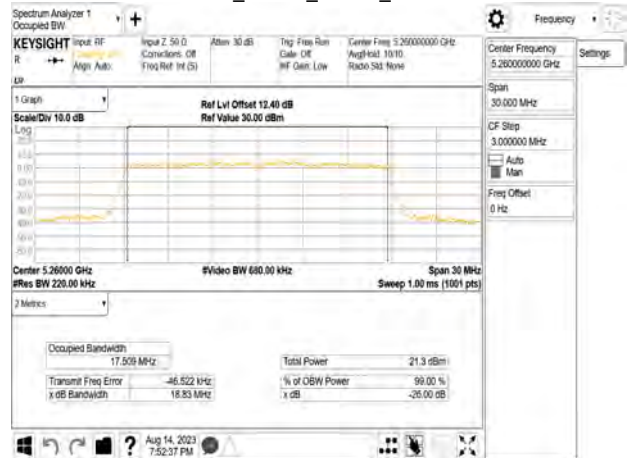
802.11n_20MHz_Chain3_5240MHz



802.11n_20MHz_Chain3_5180MHz



802.11n_20MHz_Chain3_5260MHz



802.11n_20MHz_Chain3_5220MHz



802.11n_20MHz_Chain3_5300MHz

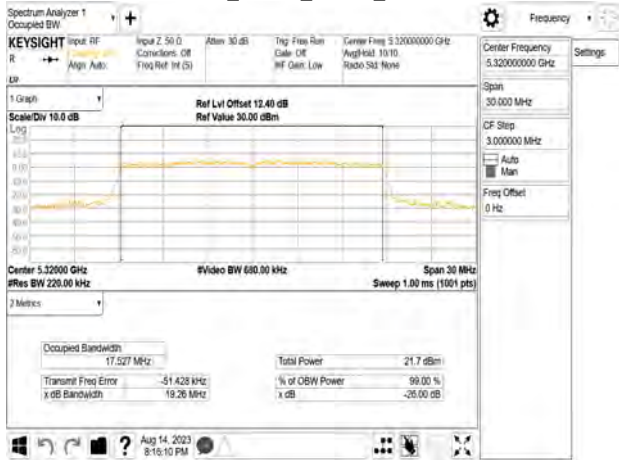


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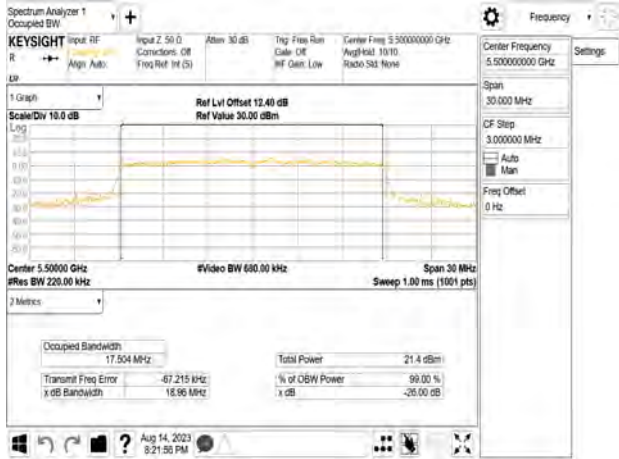
802.11n_20MHz_Chain3_5320MHz



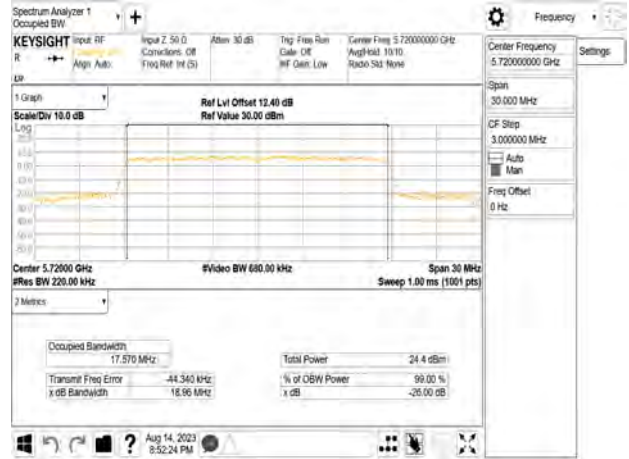
802.11n_20MHz_Chain3_5700MHz



802.11n_20MHz_Chain3_5500MHz



802.11n_20MHz_Chain3_5720MHz



802.11n_20MHz_Chain3_5580MHz



802.11n_20MHz_Chain3_5745MHz



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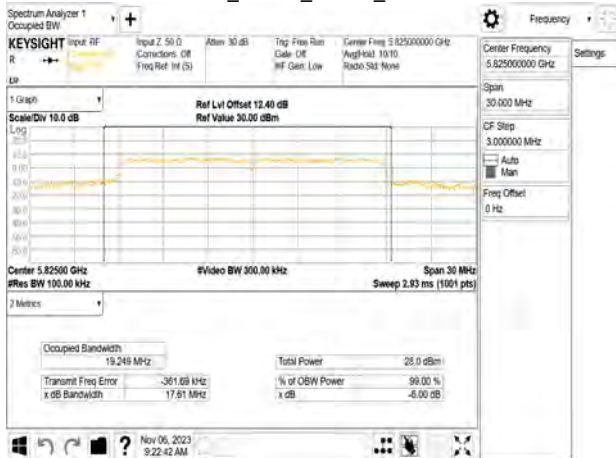
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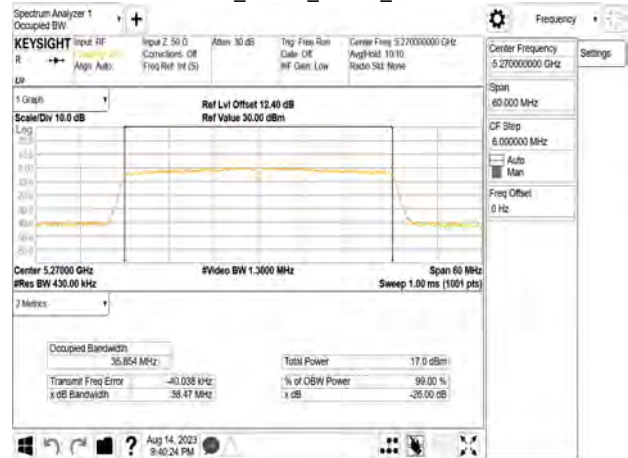
802.11n_40MHz_Chain0_5230MHz



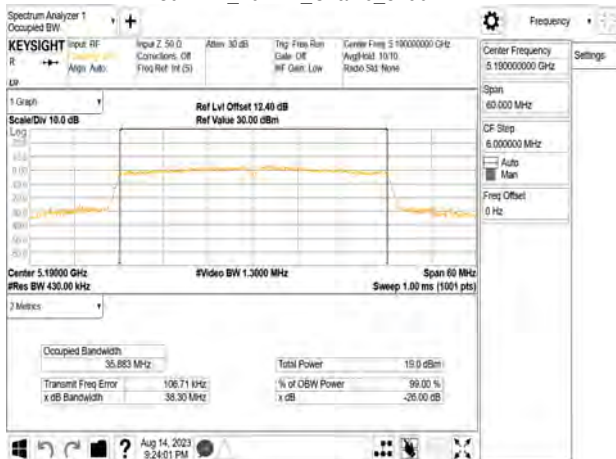
802.11n_20MHz_Chain3_5825MHz



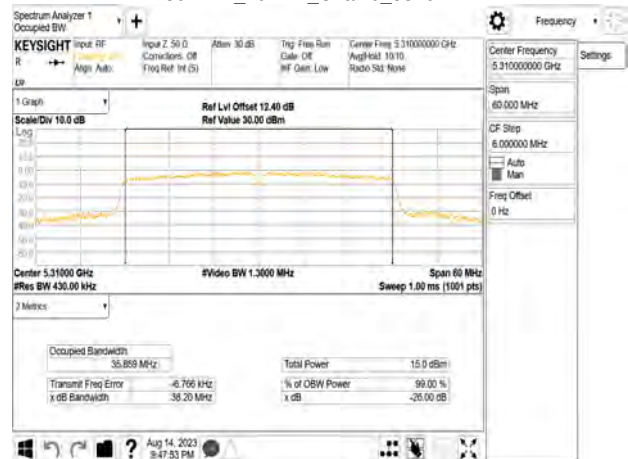
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz

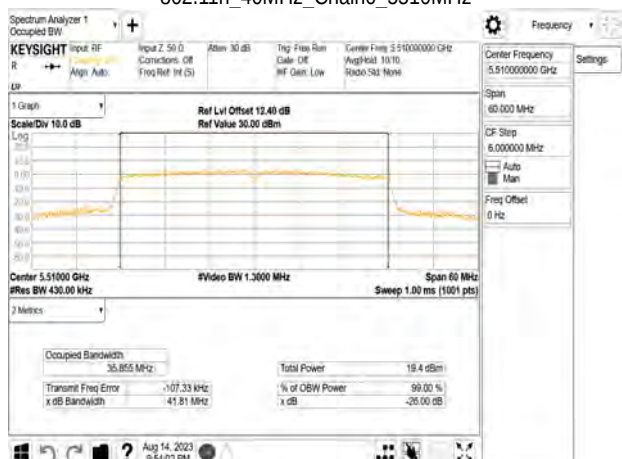


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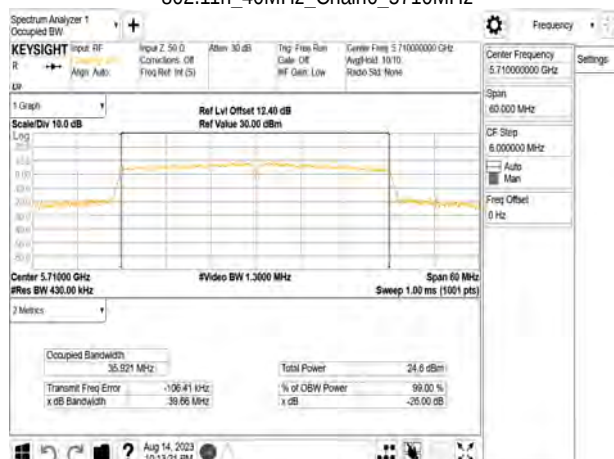
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802.11n_40MHz_Chain0_5510MHz



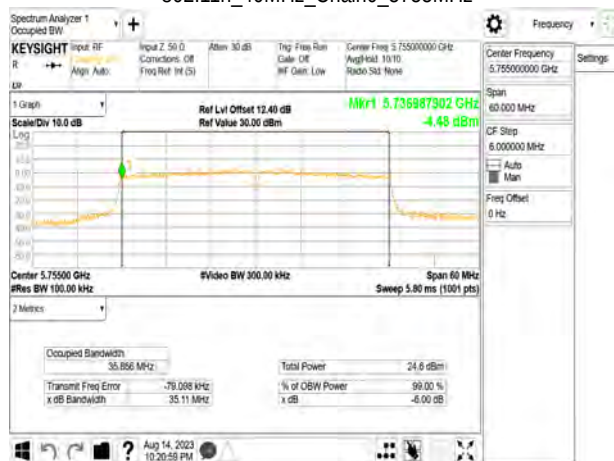
802.11n_40MHz_Chain0_5710MHz



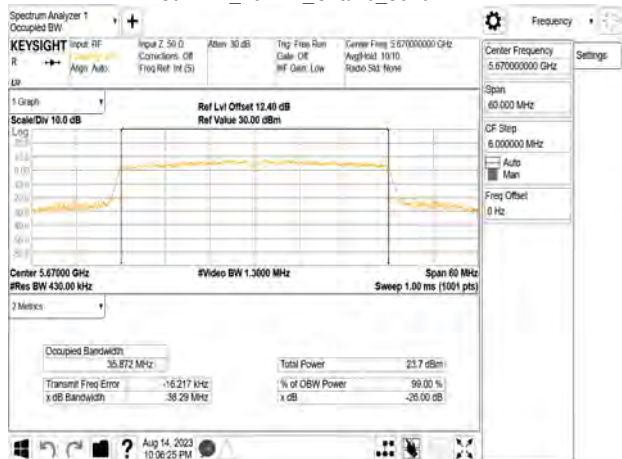
802.11n_40MHz_Chain0_5550MHz



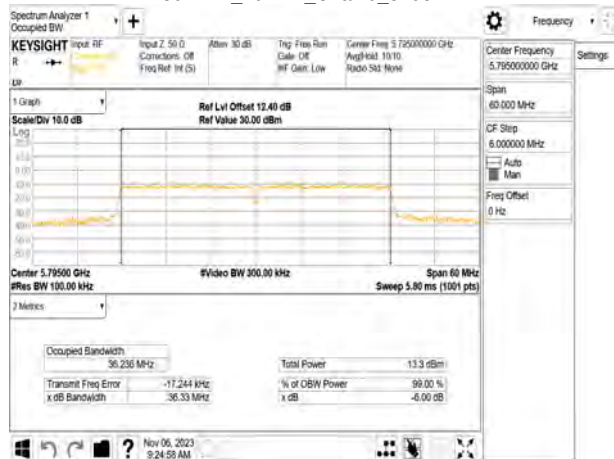
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5795MHz

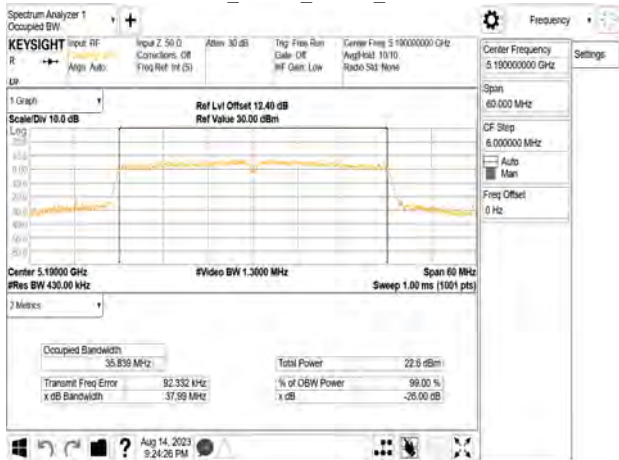


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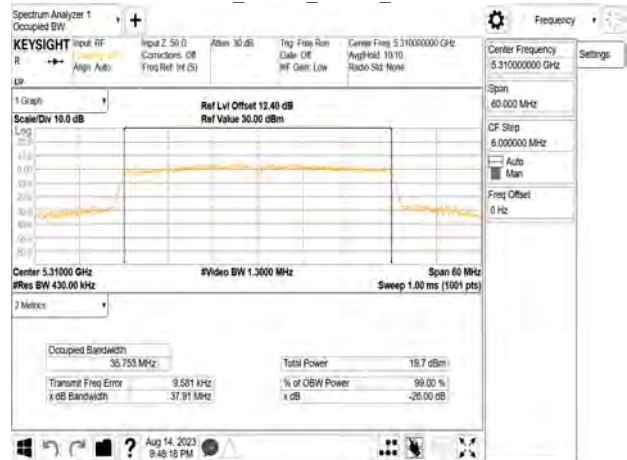
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802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5230MHz



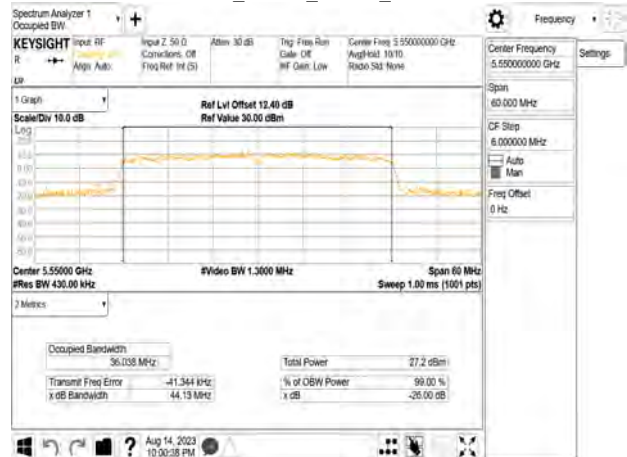
802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5550MHz



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802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



802.11n_40MHz_Chain1_5710MHz



802.11n_40MHz_Chain2_5190MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain2_5230MHz

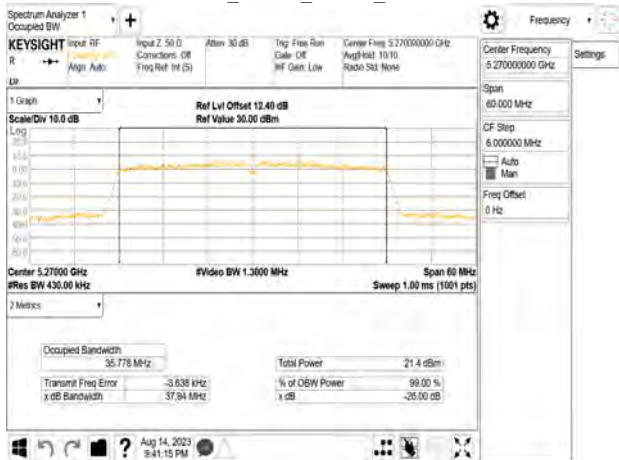


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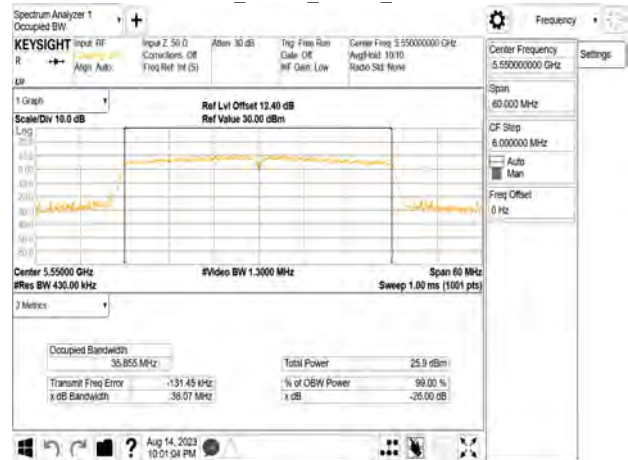
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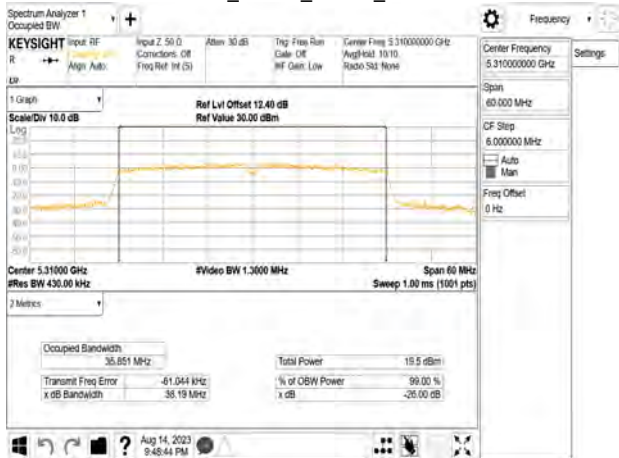
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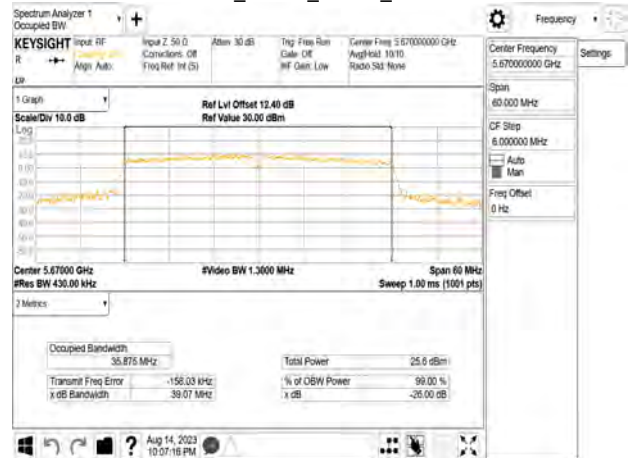
802.11n_40MHz_Chain2_5550MHz



802.11n_40MHz_Chain2_5310MHz



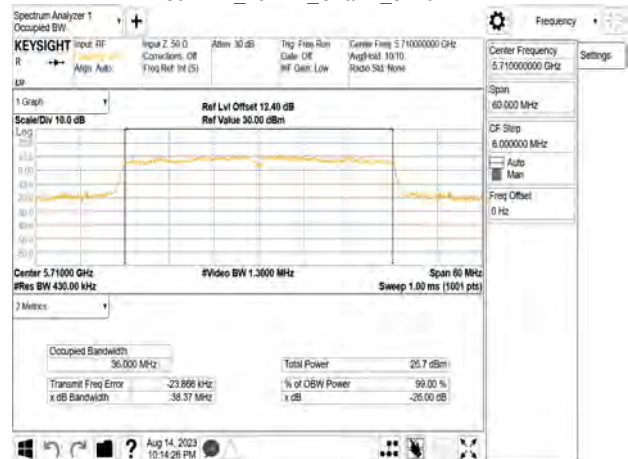
802.11n_40MHz_Chain2_5670MHz



802.11n_40MHz_Chain2_5510MHz



802.11n_40MHz_Chain2_5710MHz



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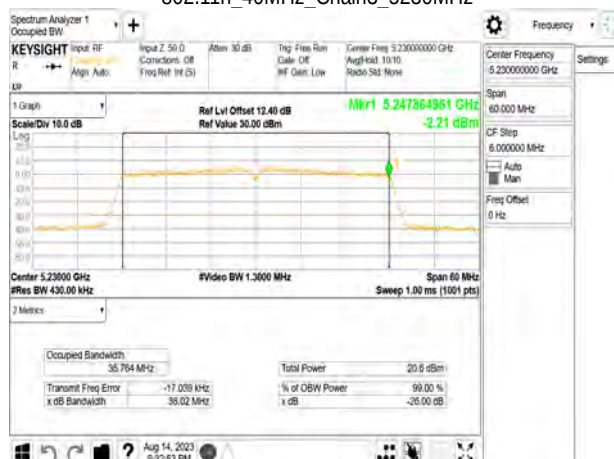
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802.11n_40MHz_Chain2_5755MHz



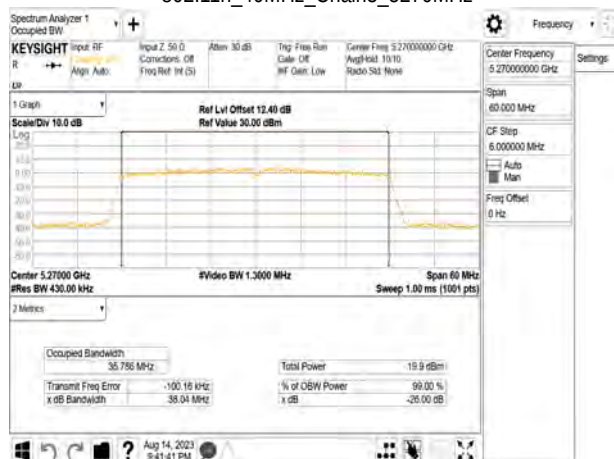
802.11n_40MHz_Chain3_5230MHz



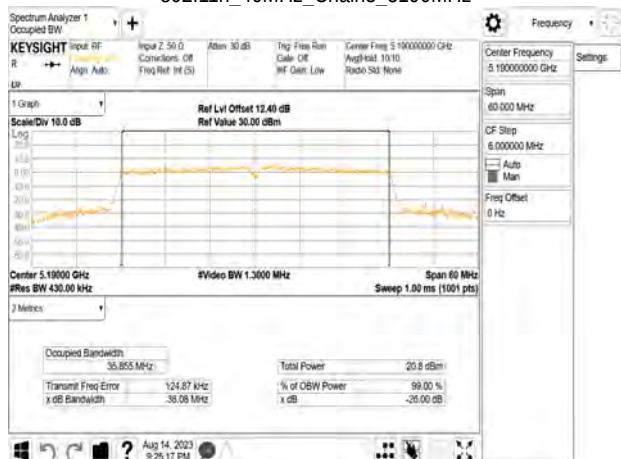
802.11n_40MHz_Chain2_5795MHz



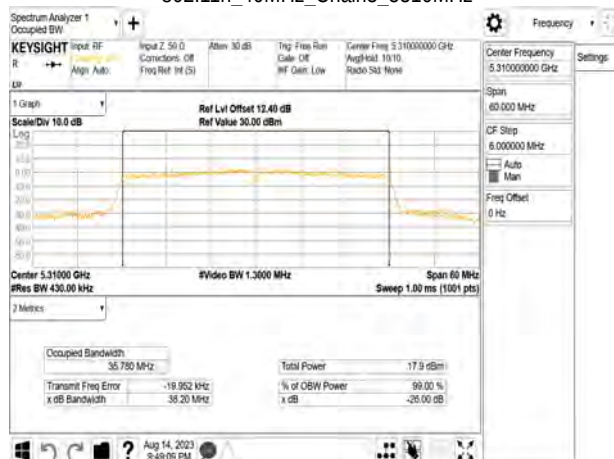
802.11n_40MHz_Chain3_5270MHz



802.11n_40MHz_Chain3_5190MHz



802.11n_40MHz_Chain3_5310MHz

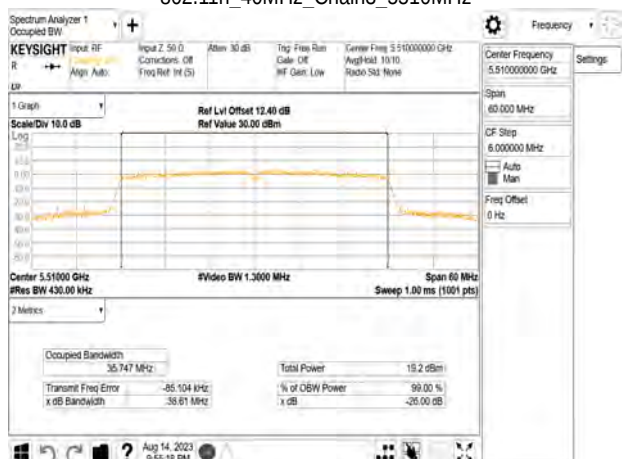


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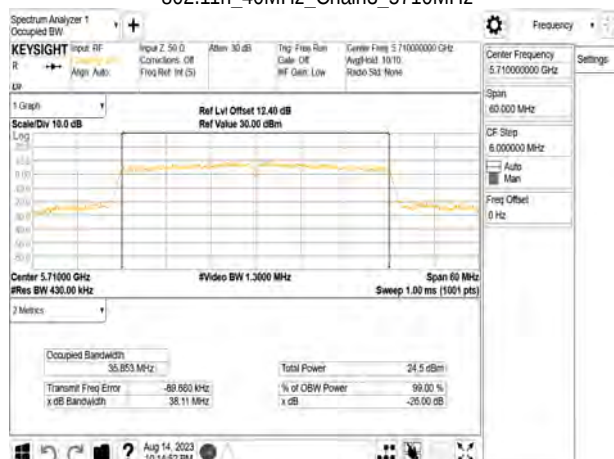
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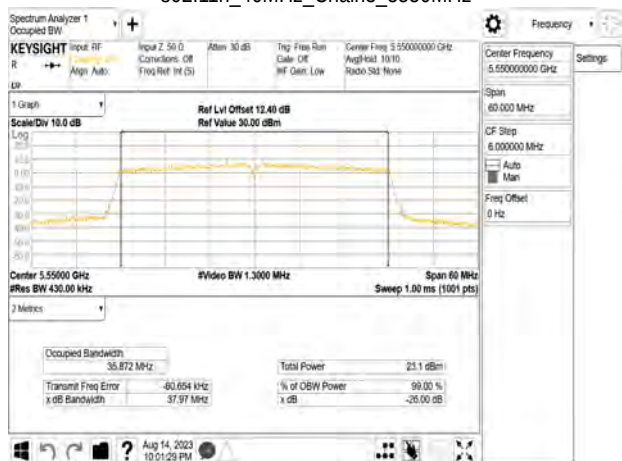
802.11n_40MHz_Chain3_5510MHz



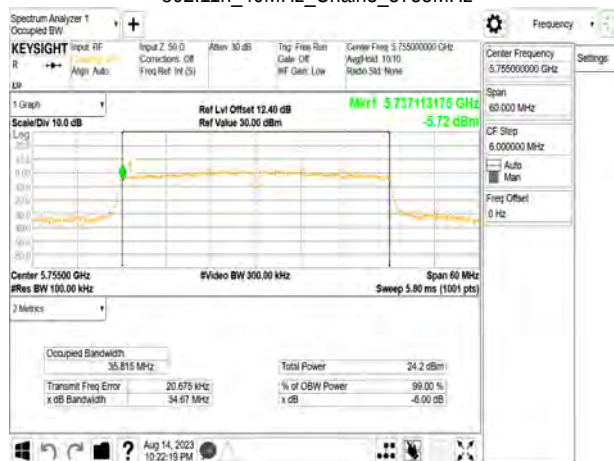
802.11n_40MHz_Chain3_5710MHz



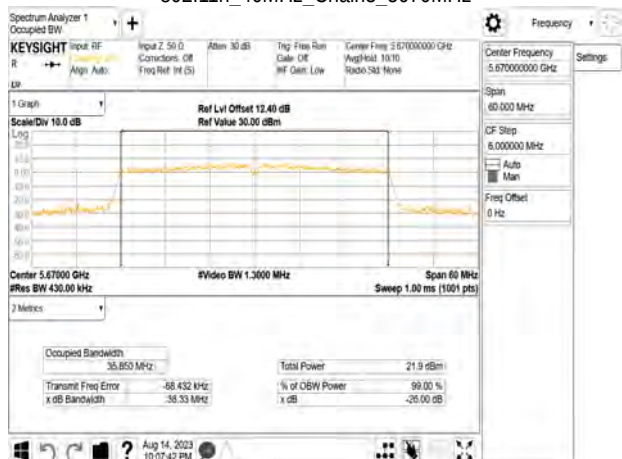
802.11n_40MHz_Chain3_5550MHz



802.11n_40MHz_Chain3_5755MHz



802.11n_40MHz_Chain3_5670MHz



802.11n_40MHz_Chain3_5795MHz

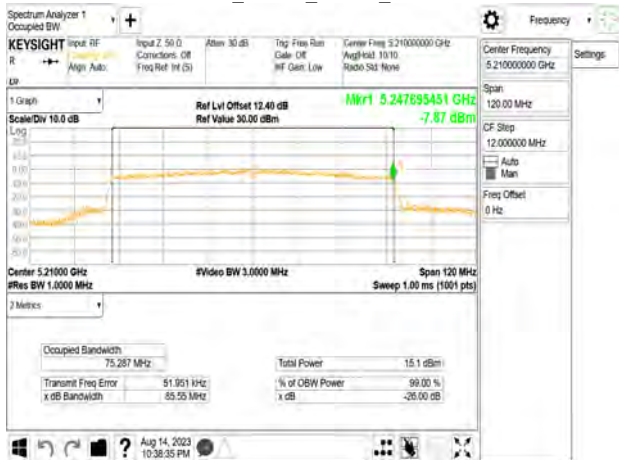


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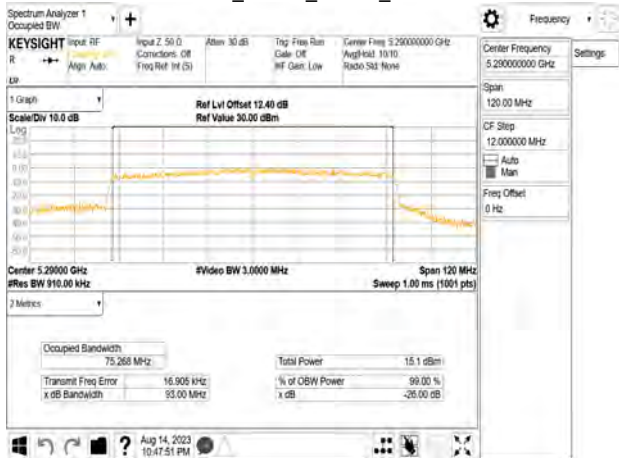
802.11ac_80MHz_Chain0_5210MHz



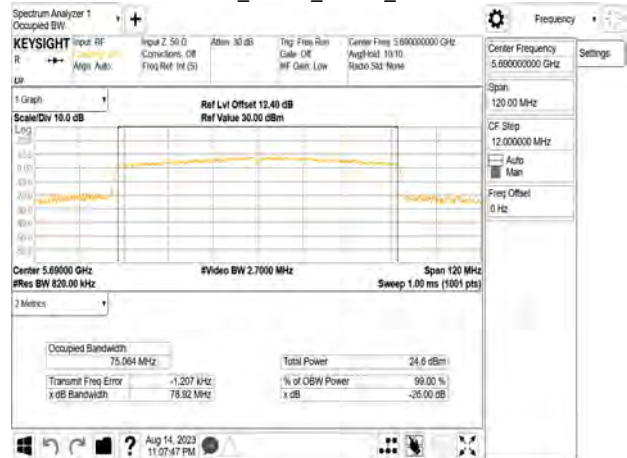
802.11ac_80MHz_Chain0_5610MHz



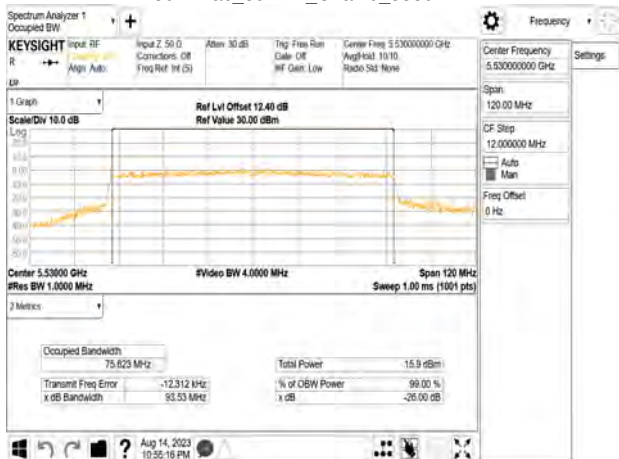
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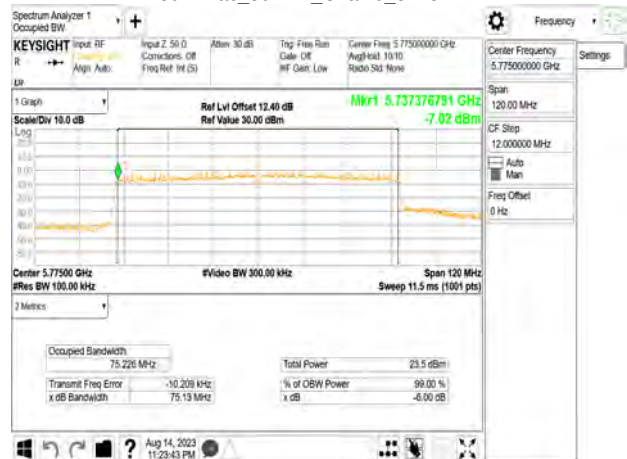
802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

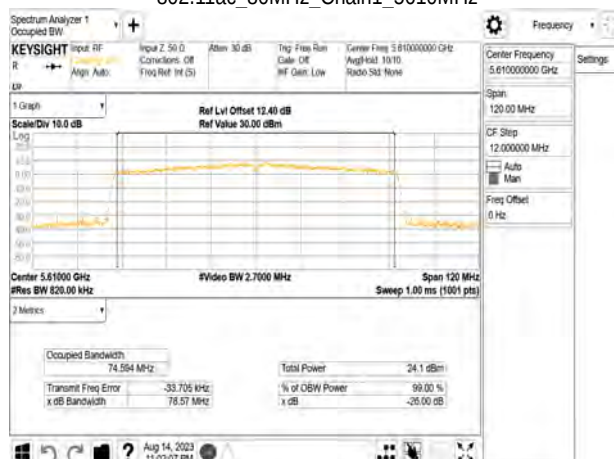
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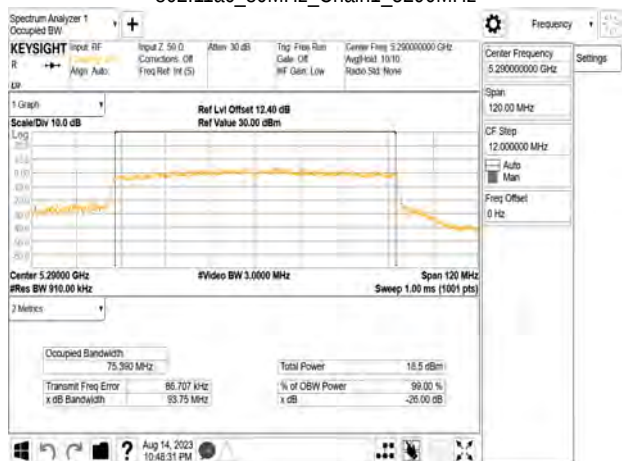
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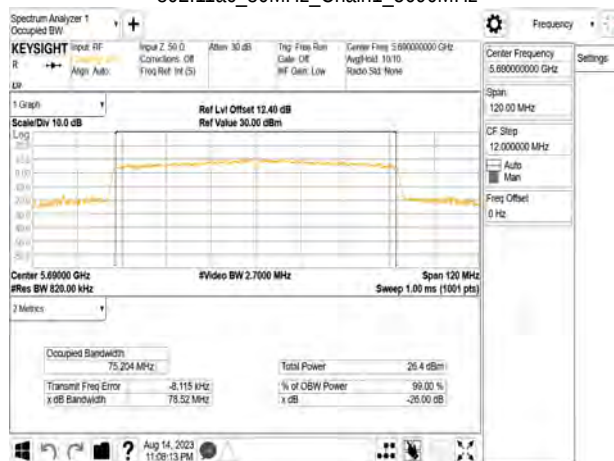
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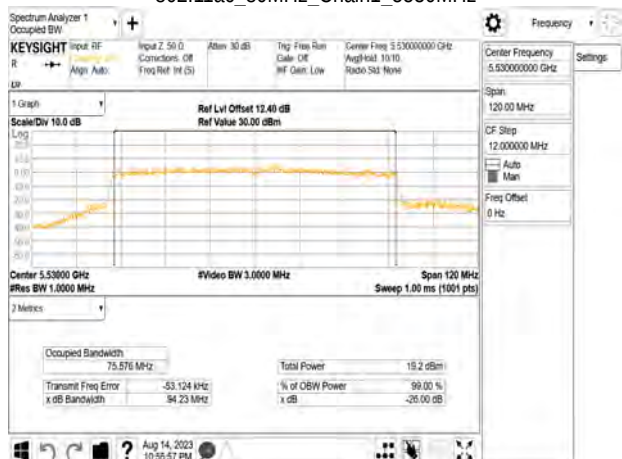
802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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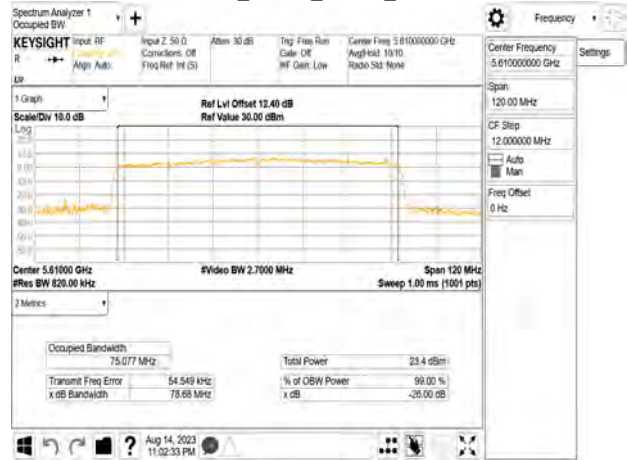
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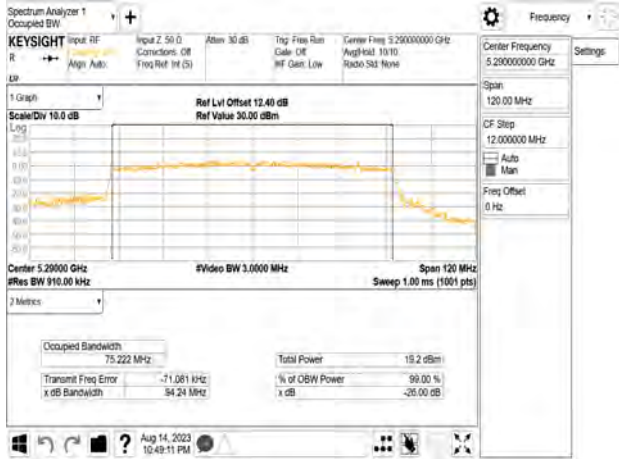
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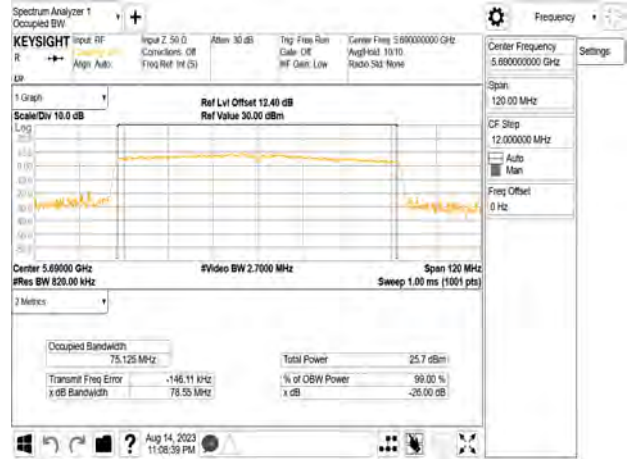
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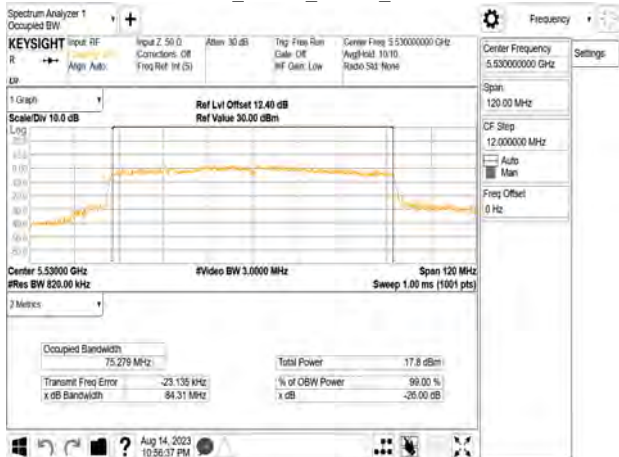
802.11ac_80MHz_Chain2_5290MHz



802.11ac_80MHz_Chain2_5690MHz



802.11ac_80MHz_Chain2_5530MHz



802.11ac_80MHz_Chain2_5775MHz



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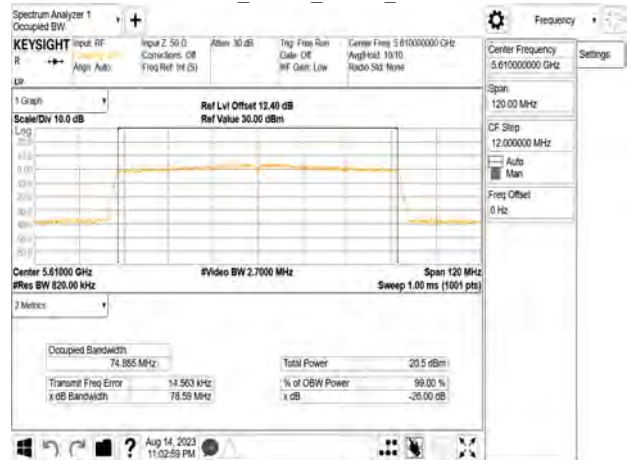
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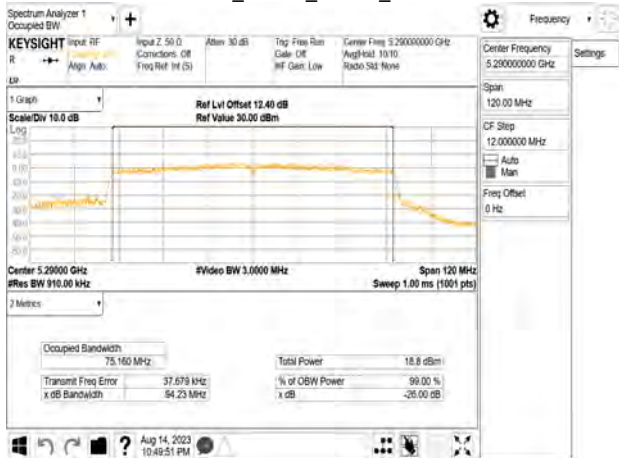
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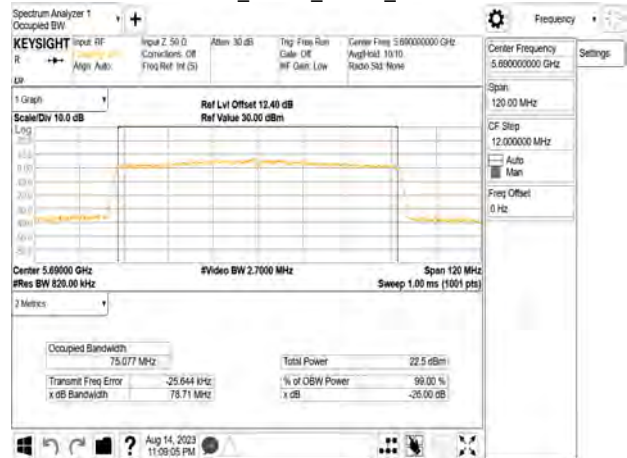
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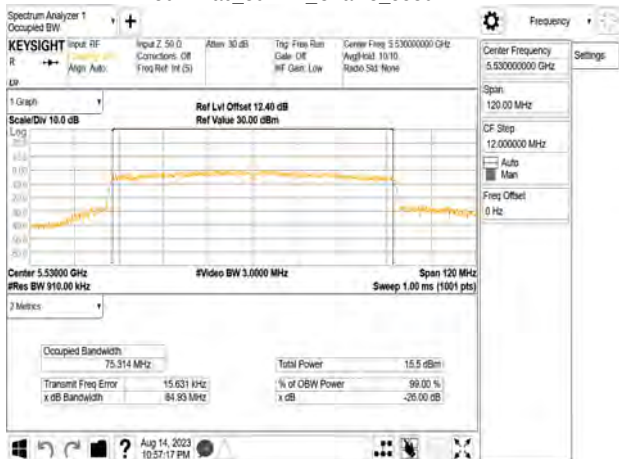
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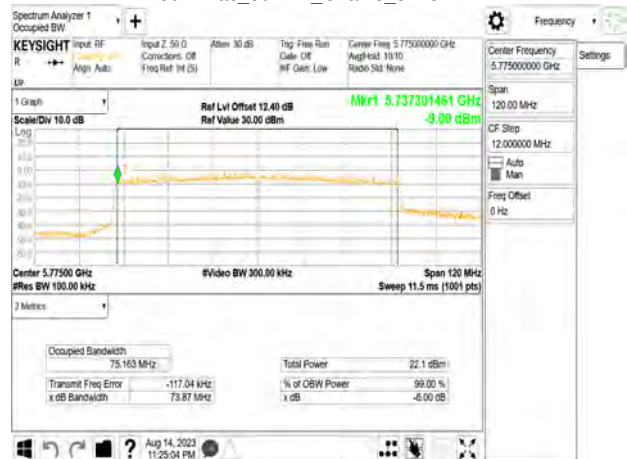
802.11ac_80MHz_Chain3_5690MHz



802.11ac_80MHz_Chain3_5530MHz



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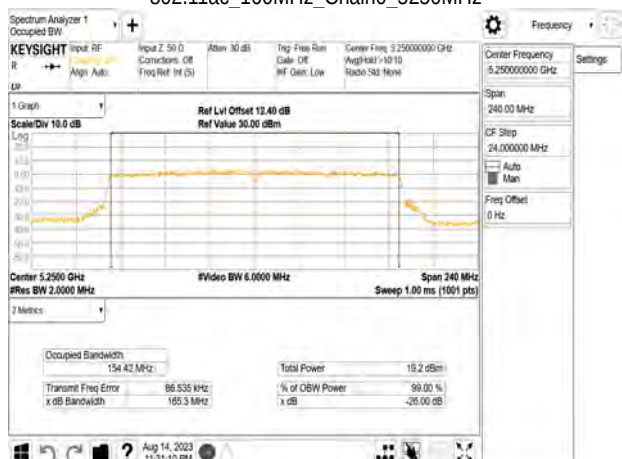


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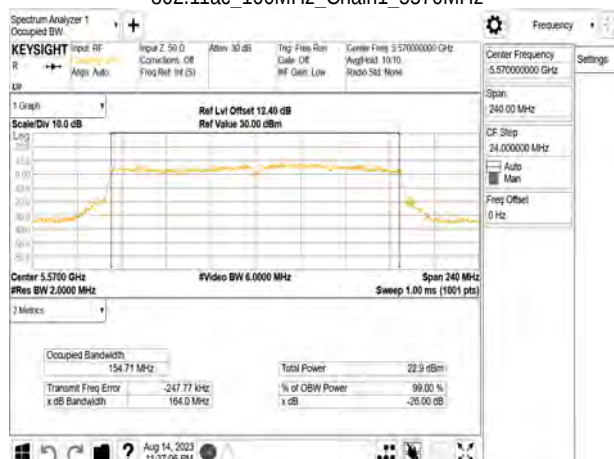
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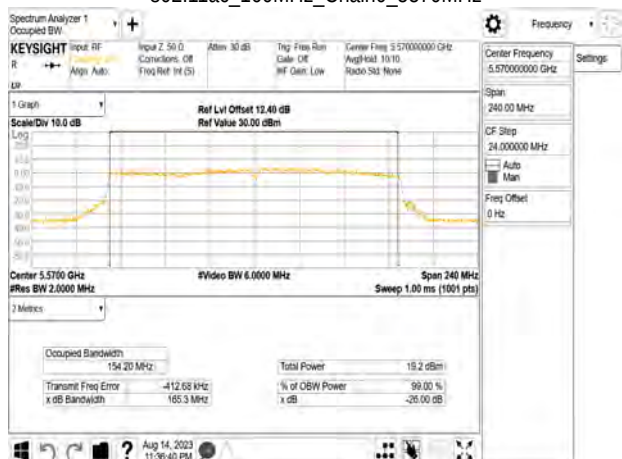
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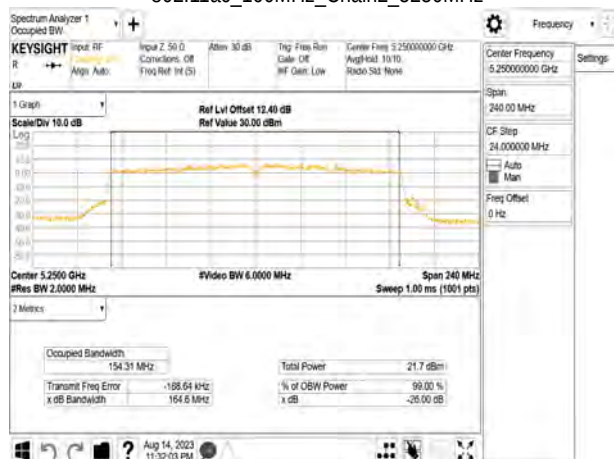
802.11ac_160MHz_Chain1_5570MHz



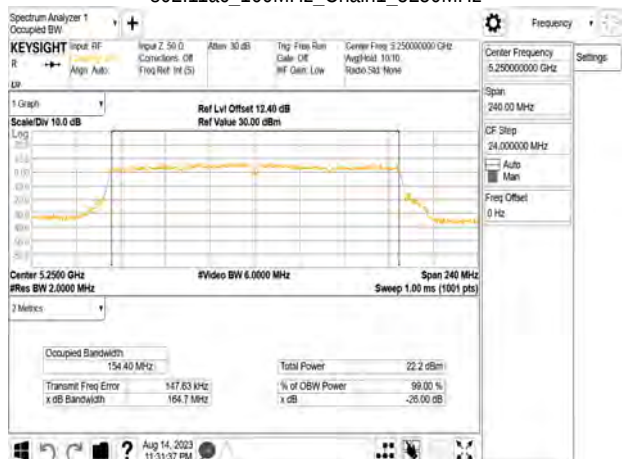
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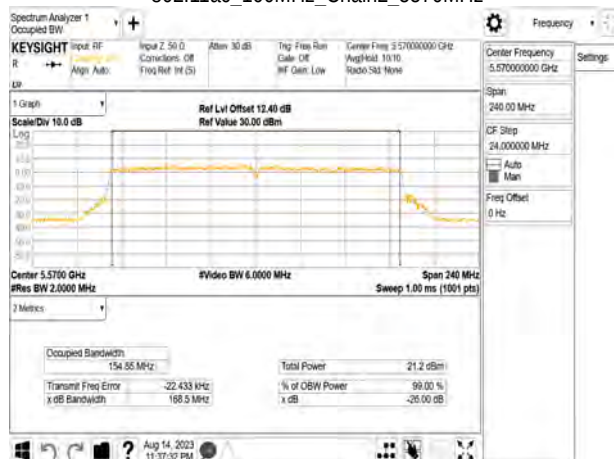
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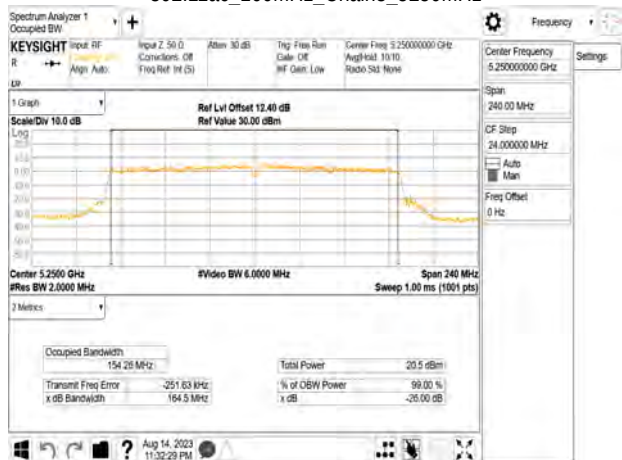


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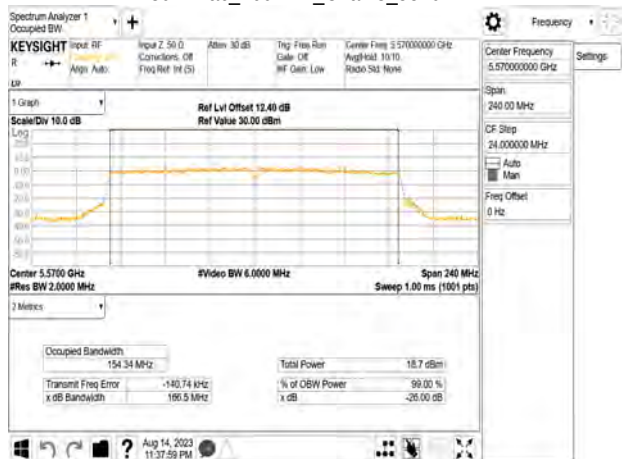
802.11ac_160MHz_Chain3_5250MHz



802.11be_20MHz_Chain0_5220MHz



802.11ac_160MHz_Chain3_5570MHz



802.11be_20MHz_Chain0_5240MHz



802.11be_20MHz_Chain0_5180MHz



802.11be_20MHz_Chain0_5260MHz

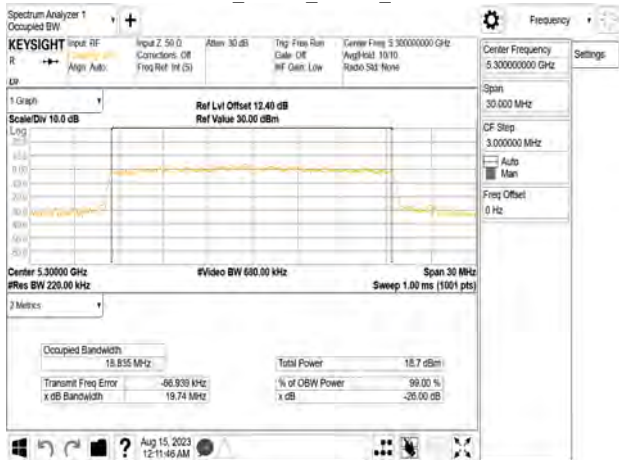


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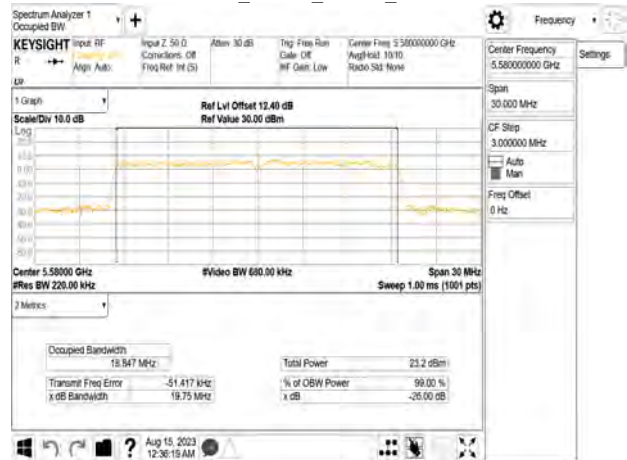
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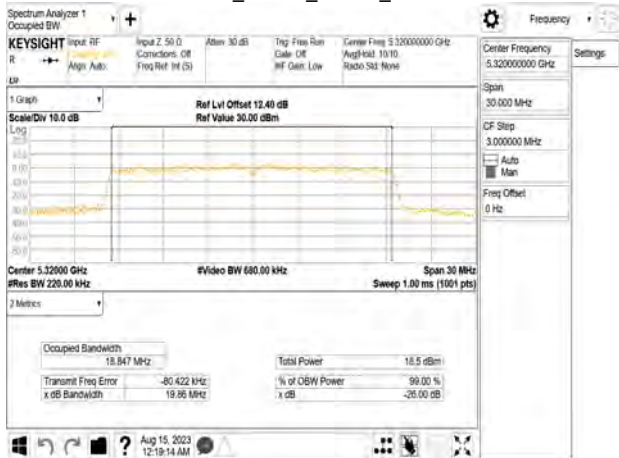
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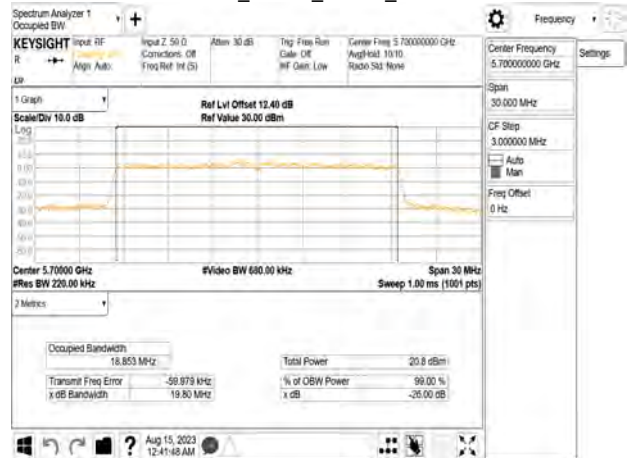
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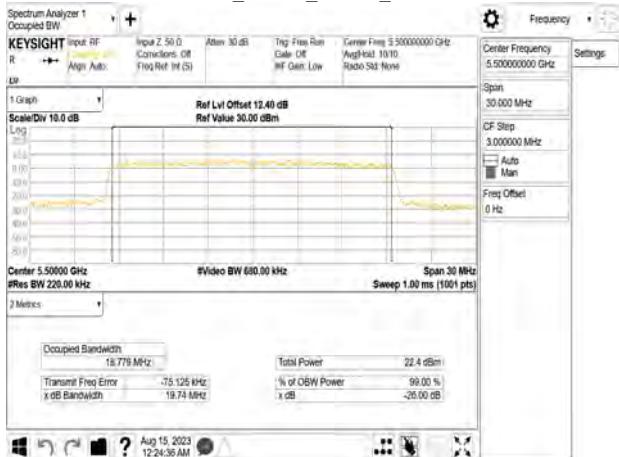
802.11be_20MHz_Chain0_5320MHz



802.11be_20MHz_Chain0_5700MHz



802.11be_20MHz_Chain0_5500MHz



802.11be_20MHz_Chain0_5720MHz



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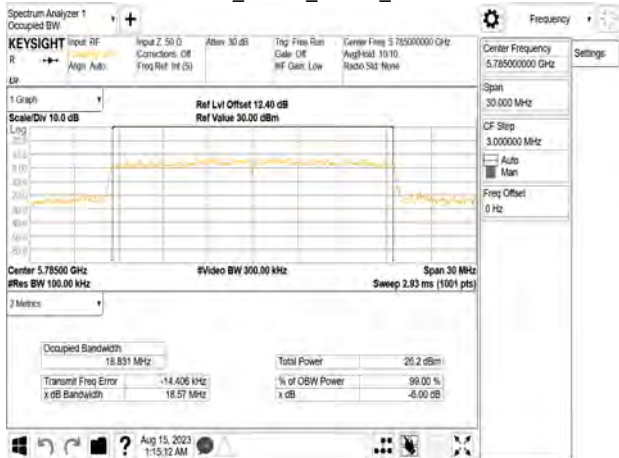
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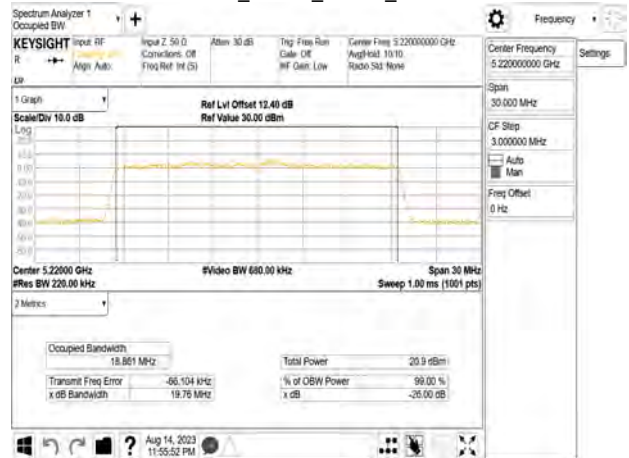
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802.11be_20MHz_Chain0_5785MHz



802.11be_20MHz_Chain1_5220MHz



802.11be_20MHz_Chain0_5825MHz



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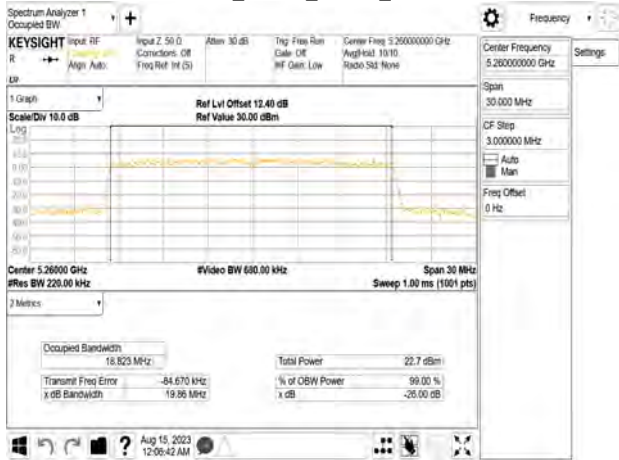


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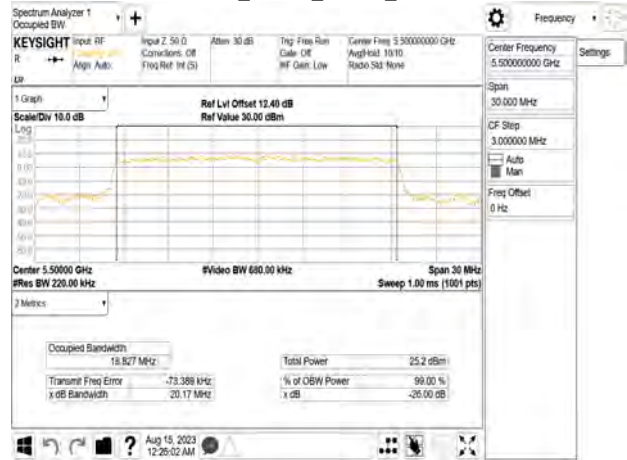
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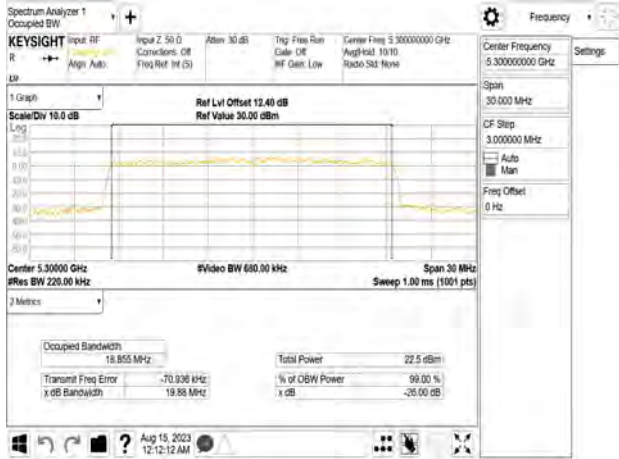
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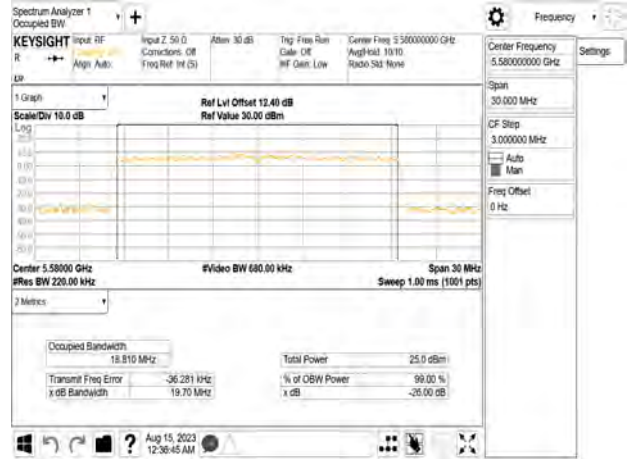
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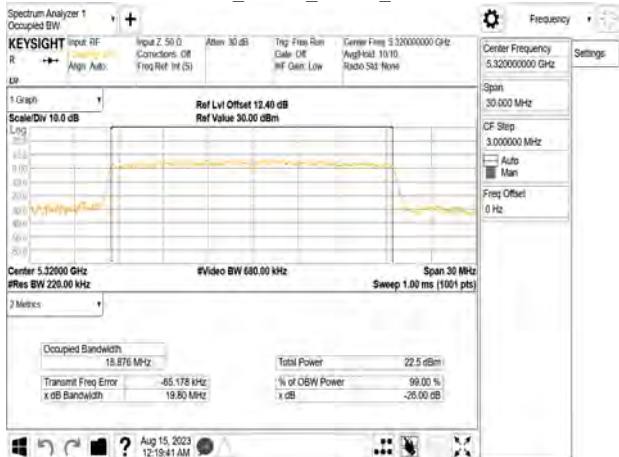
802.11be_20MHz_Chain1_5300MHz



802.11be_20MHz_Chain1_5580MHz



802.11be_20MHz_Chain1_5320MHz



802.11be_20MHz_Chain1_5700MHz

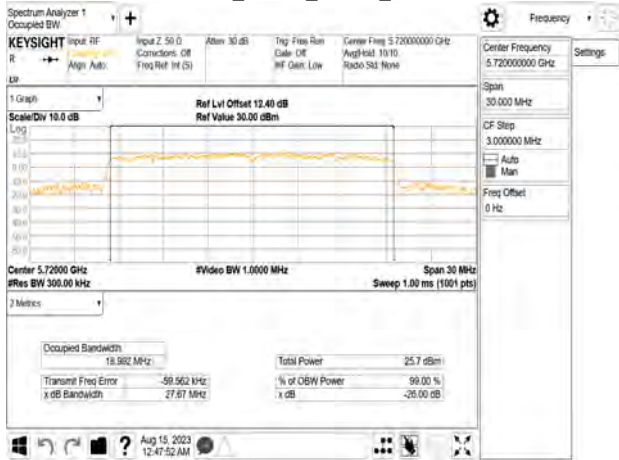


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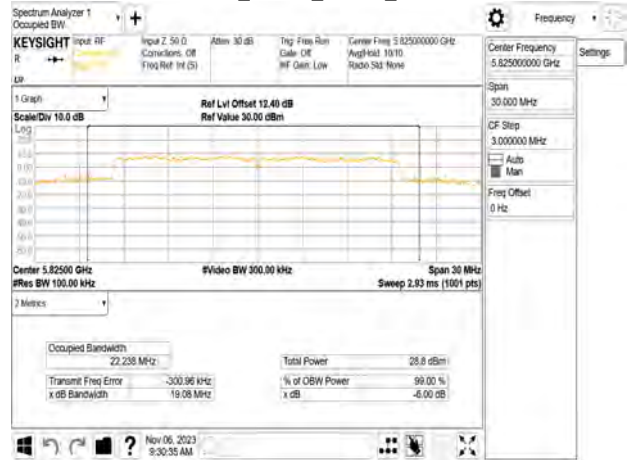
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802.11be_20MHz_Chain1_5720MHz



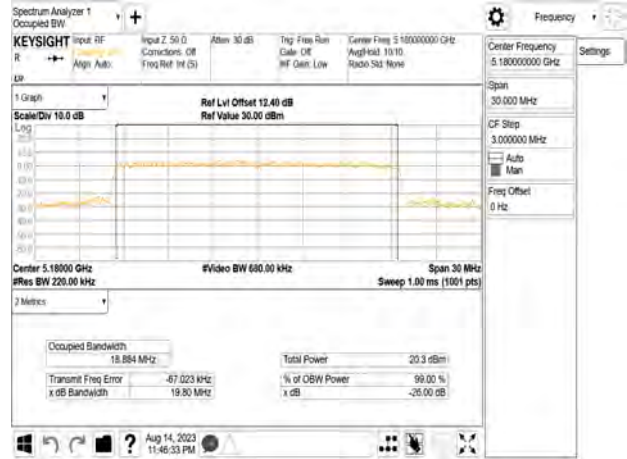
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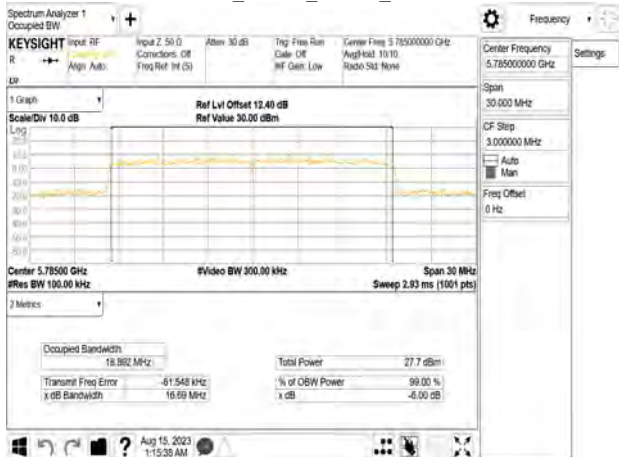
802.11be_20MHz_Chain1_5745MHz



802.11be_20MHz_Chain2_5180MHz



802.11be_20MHz_Chain1_5785MHz



802.11be_20MHz_Chain2_5220MHz



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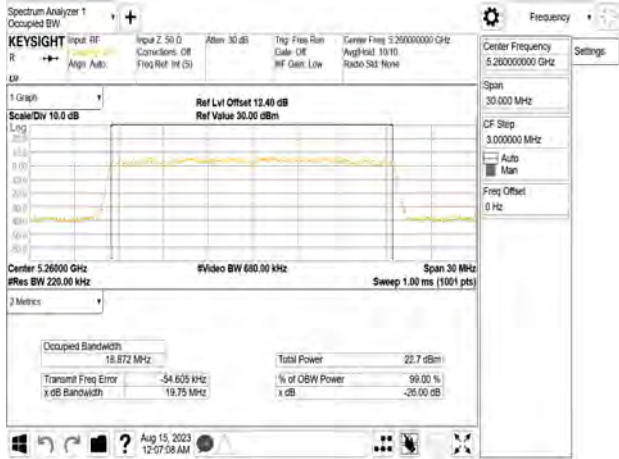
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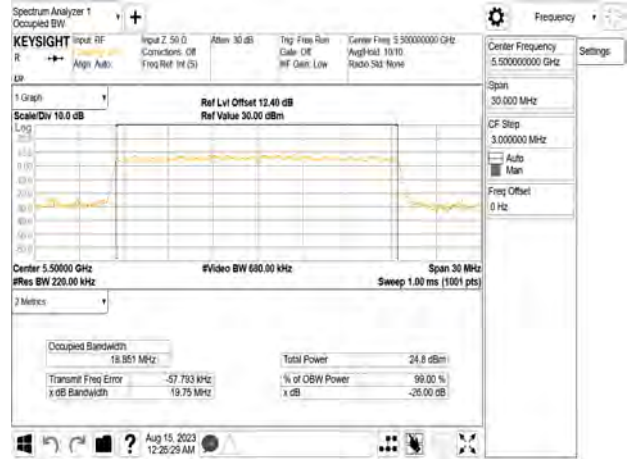
802.11be_20MHz_Chain2_5320MHz



802.11be_20MHz_Chain2_5260MHz



802.11be_20MHz_Chain2_5500MHz



802.11be_20MHz_Chain2_5300MHz



802.11be_20MHz_Chain2_5580MHz

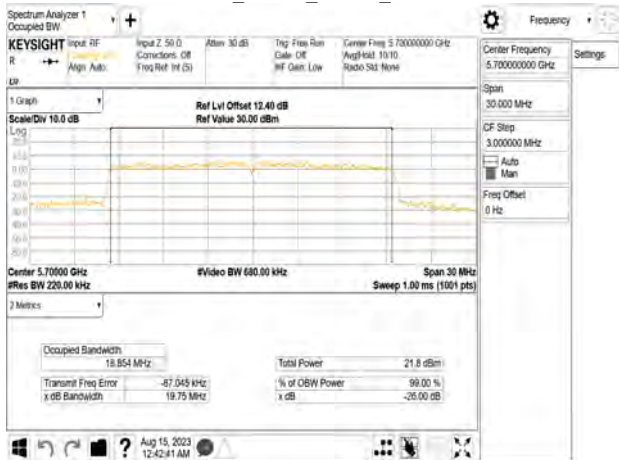


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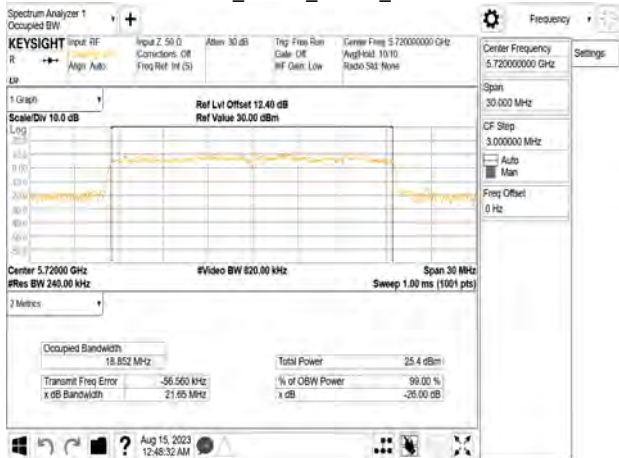
802.11be_20MHz_Chain2_5700MHz



802.11be_20MHz_Chain2_5785MHz



802.11be_20MHz_Chain2_5720MHz



802.11be_20MHz_Chain2_5825MHz



802.11be_20MHz_Chain2_5745MHz



802.11be_20MHz_Chain3_5180MHz



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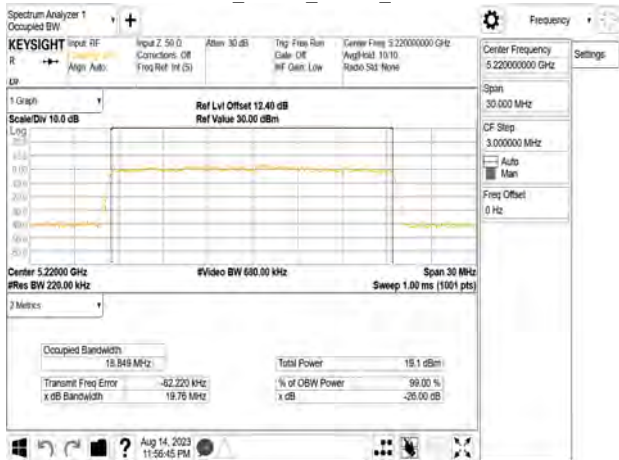
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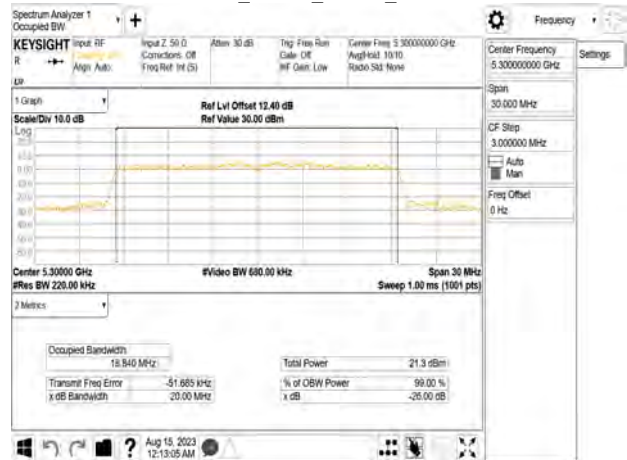
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802.11be_20MHz_Chain3_5220MHz



802.11be_20MHz_Chain3_5300MHz



802.11be_20MHz_Chain3_5240MHz



802.11be_20MHz_Chain3_5320MHz



802.11be_20MHz_Chain3_5260MHz



802.11be_20MHz_Chain3_5500MHz

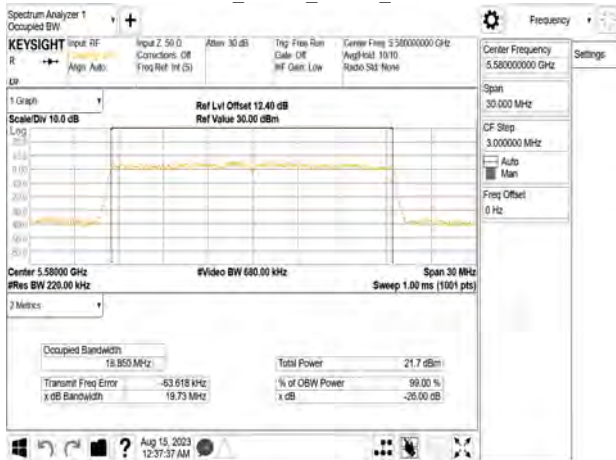


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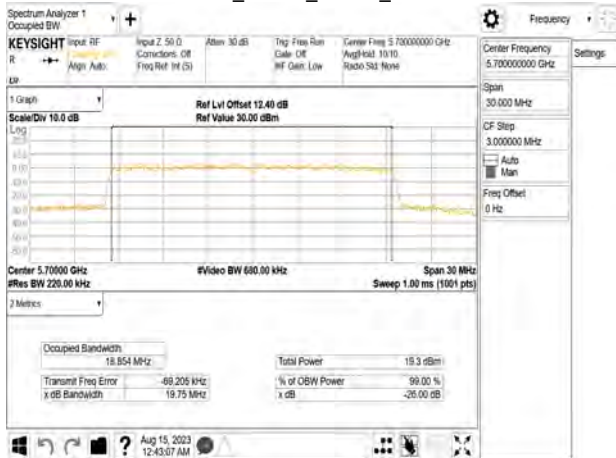
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802.11be_20MHz_Chain3_5745MHz



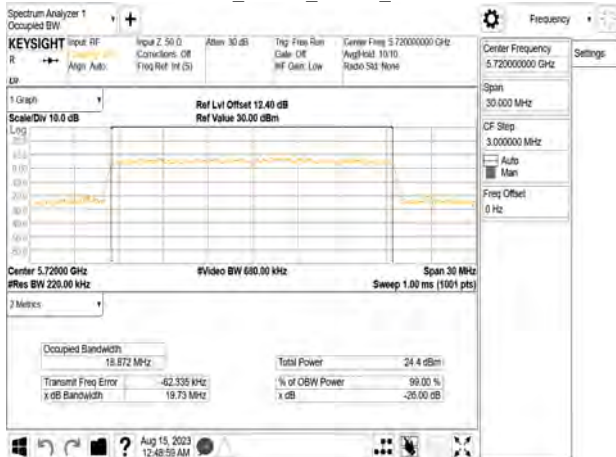
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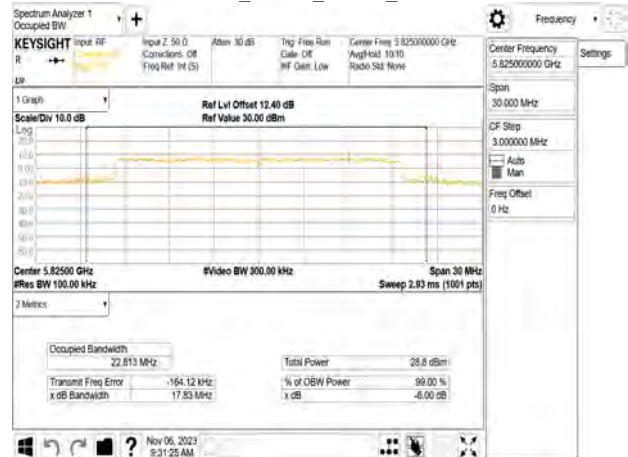
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802.11be_20MHz_Chain3_5720MHz



802.11be_20MHz_Chain3_5825MHz



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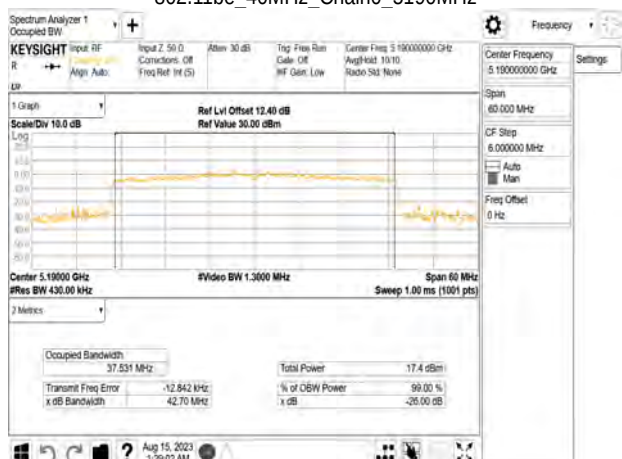
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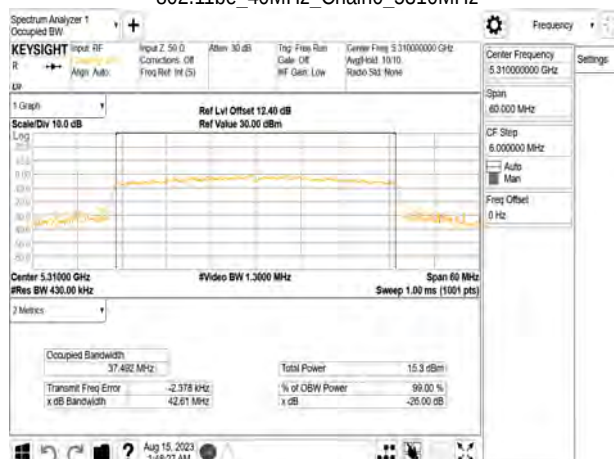
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802.11be_40MHz_Chain0_5190MHz



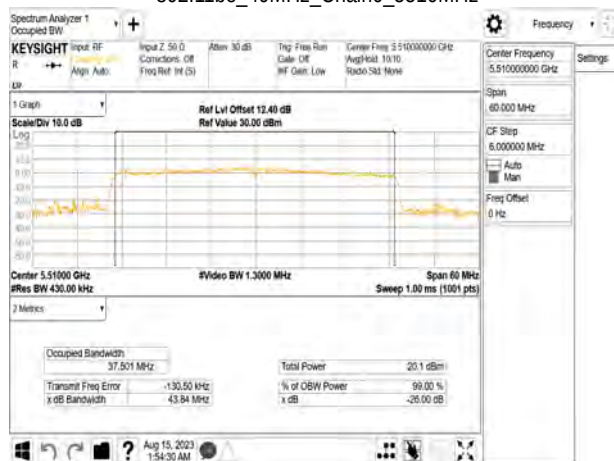
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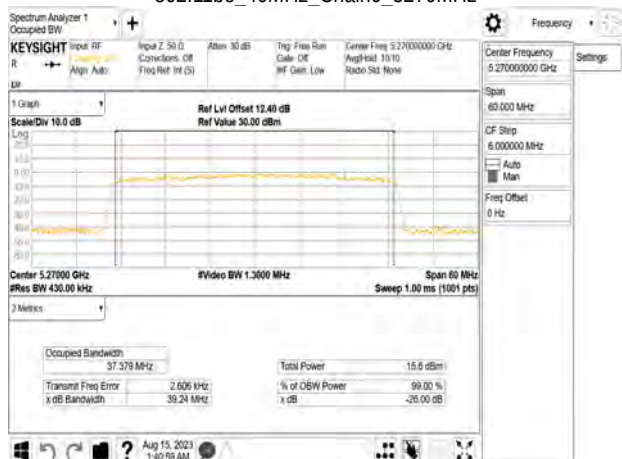
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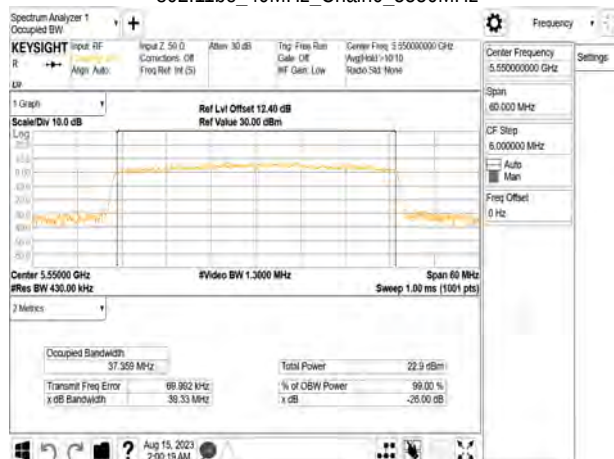
802.11be_40MHz_Chain0_5510MHz



802.11be_40MHz_Chain0_5270MHz



802.11be_40MHz_Chain0_5550MHz



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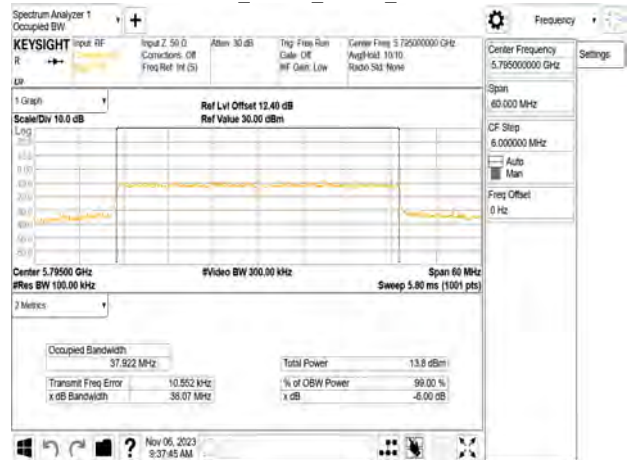
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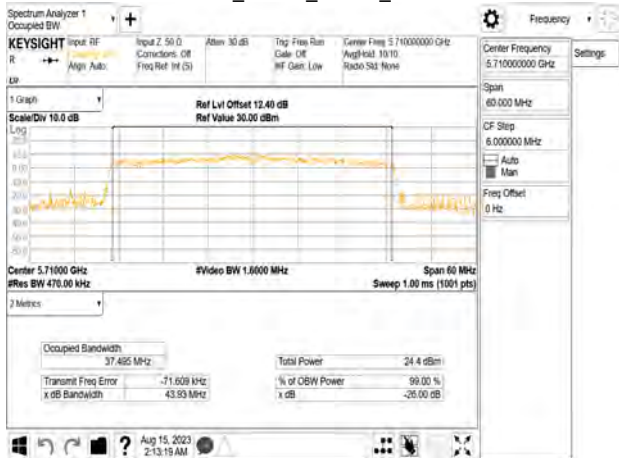
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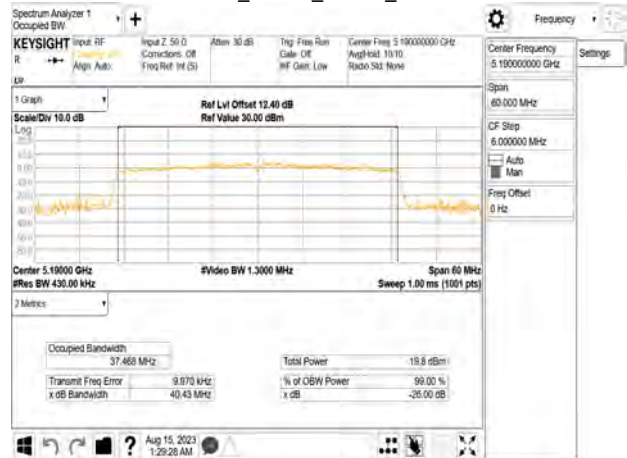
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802.11be_40MHz_Chain0_5710MHz



802.11be_40MHz_Chain1_5190MHz



802.11be_40MHz_Chain0_5755MHz



802.11be_40MHz_Chain1_5230MHz

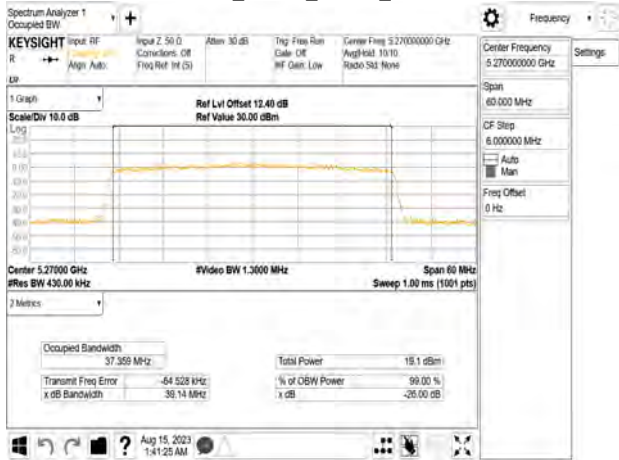


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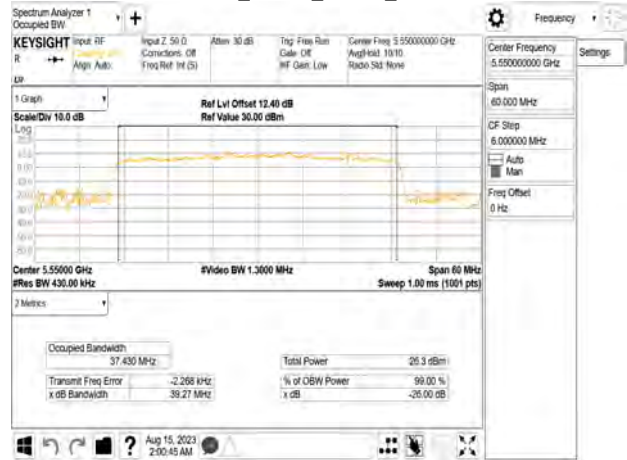
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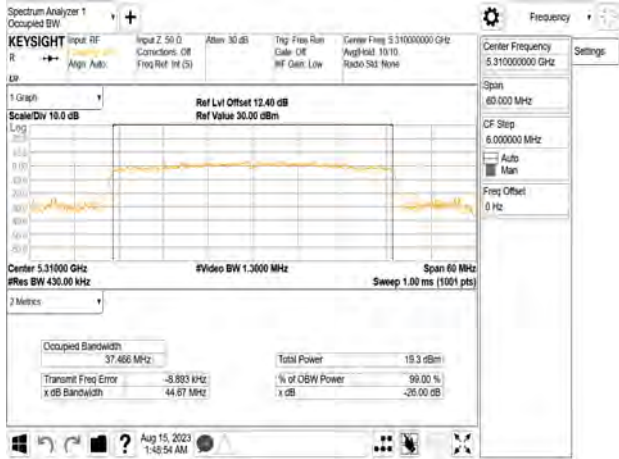
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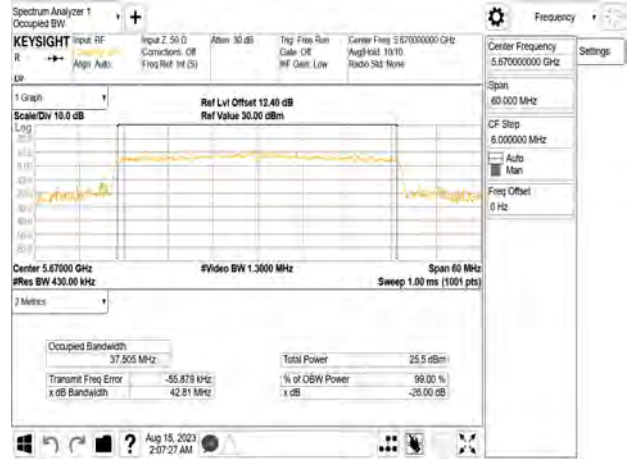
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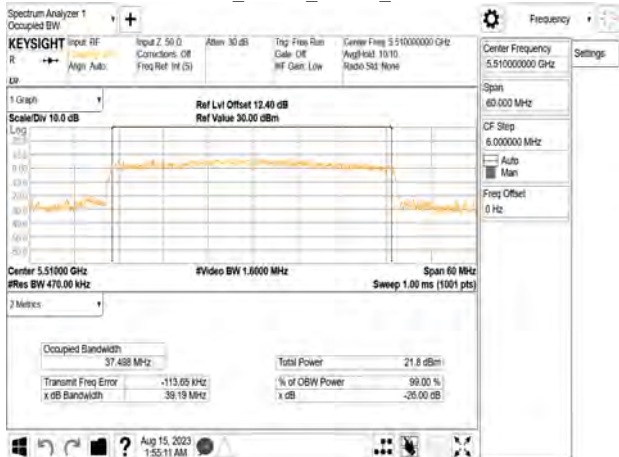
802.11be_40MHz_Chain1_5310MHz



802.11be_40MHz_Chain1_5670MHz



802.11be_40MHz_Chain1_5510MHz



802.11be_40MHz_Chain1_5710MHz



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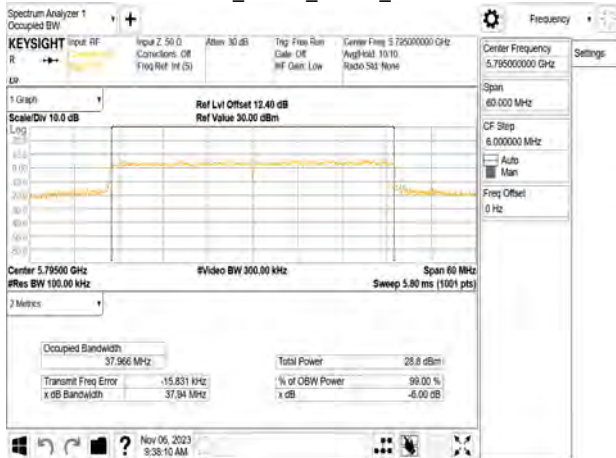
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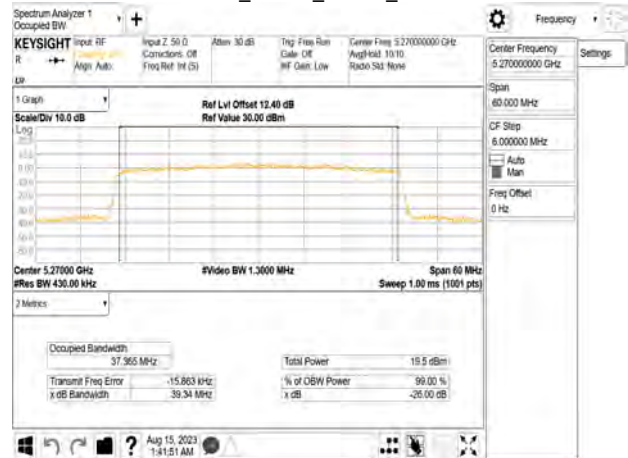
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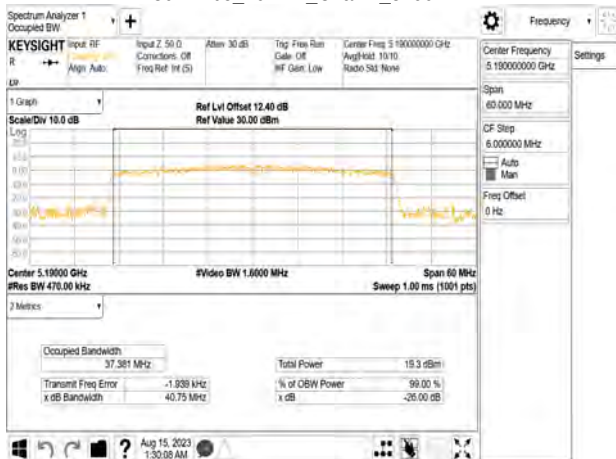
802.11be_40MHz_Chain1_5795MHz



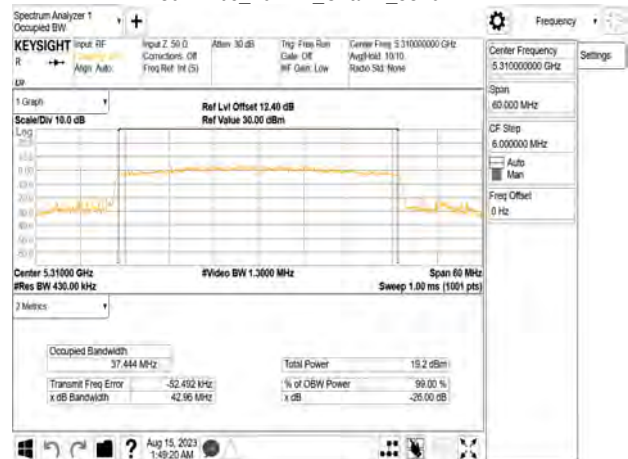
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802.11be_40MHz_Chain2_5190MHz



802.11be_40MHz_Chain2_5310MHz

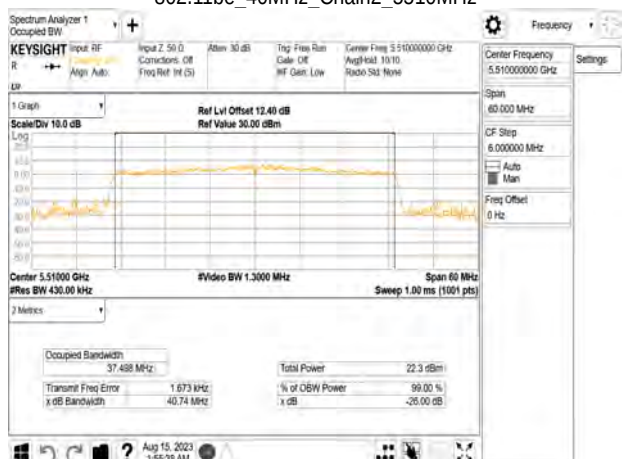


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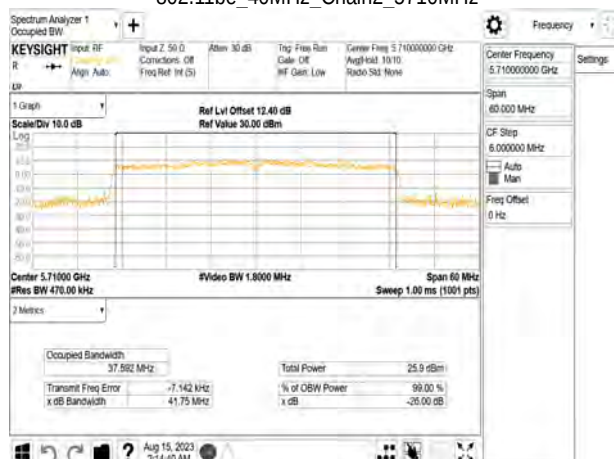
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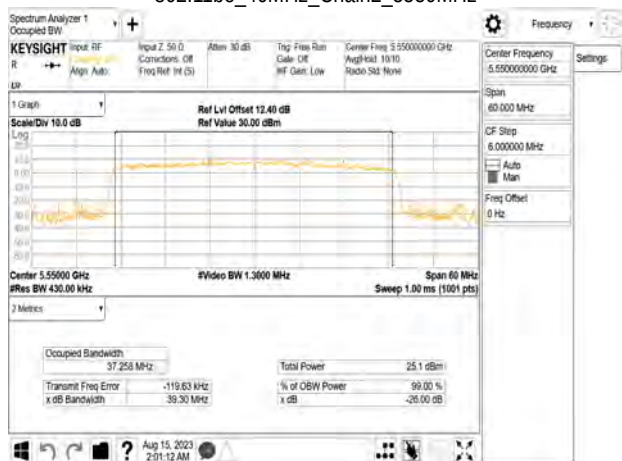
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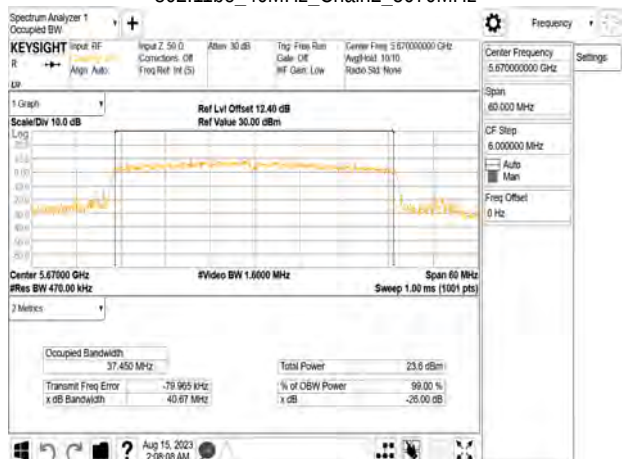
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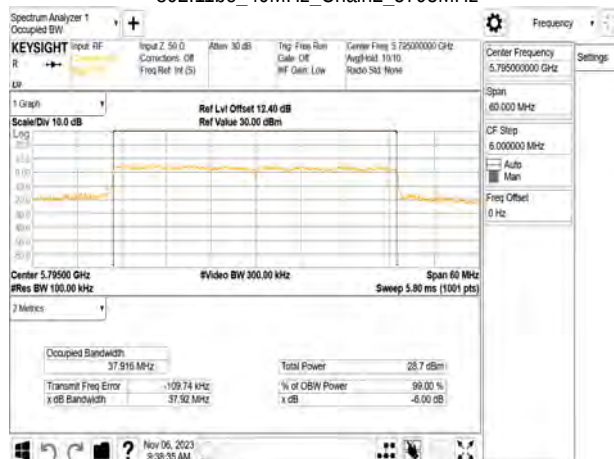
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802.11be_40MHz_Chain2_5670MHz



802.11be_40MHz_Chain2_5795MHz

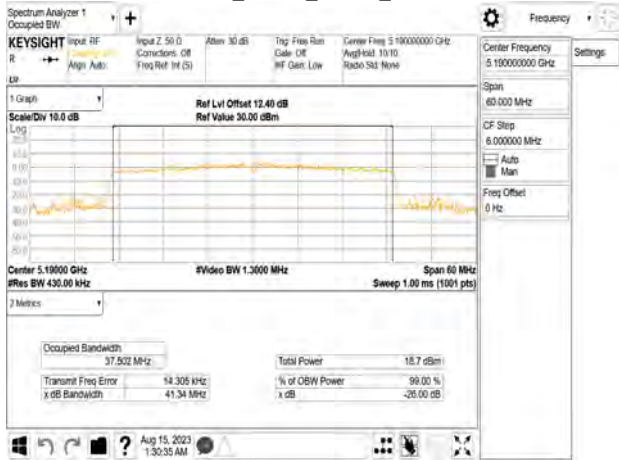


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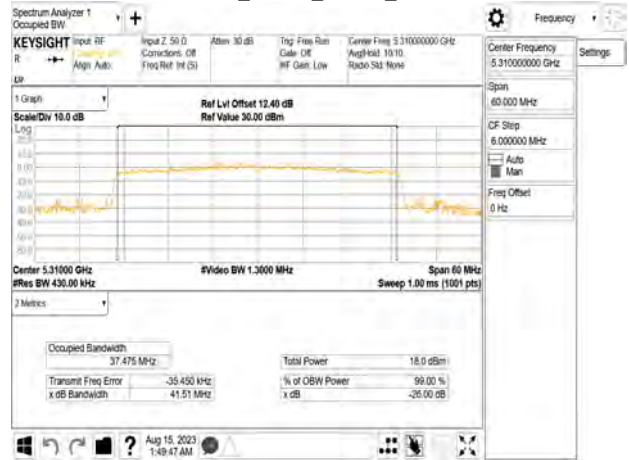
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802.11be_40MHz_Chain3_5190MHz



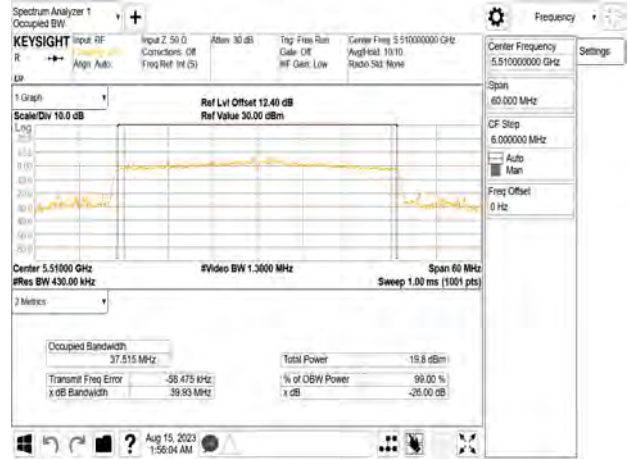
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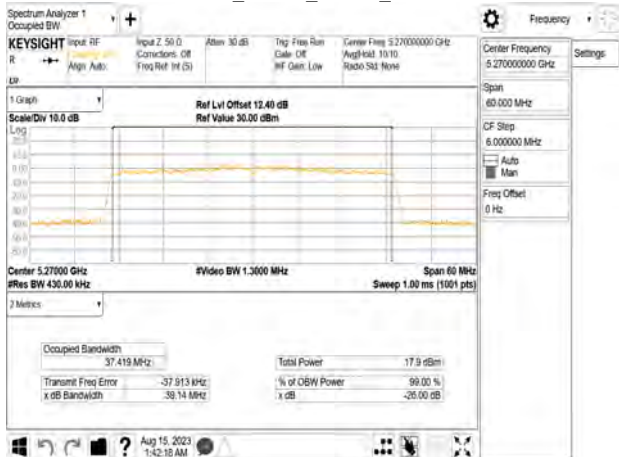
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802.11be_40MHz_Chain3_5510MHz



802.11be_40MHz_Chain3_5270MHz



802.11be_40MHz_Chain3_5550MHz

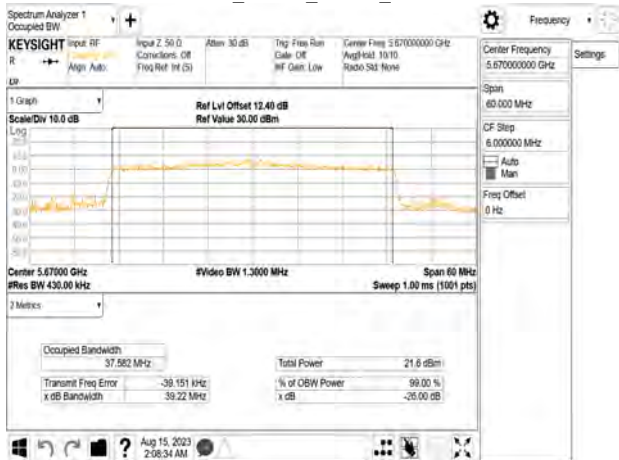


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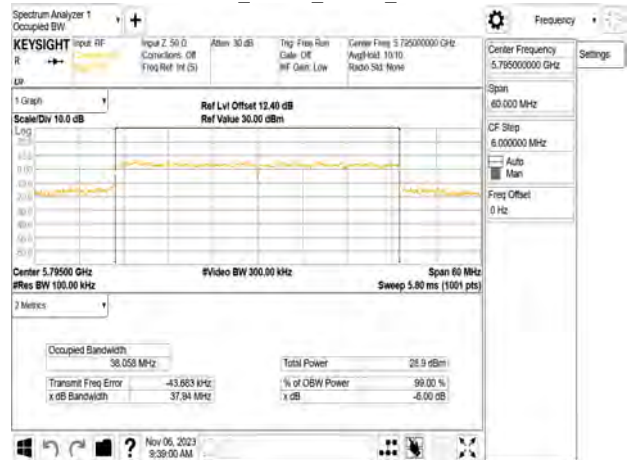
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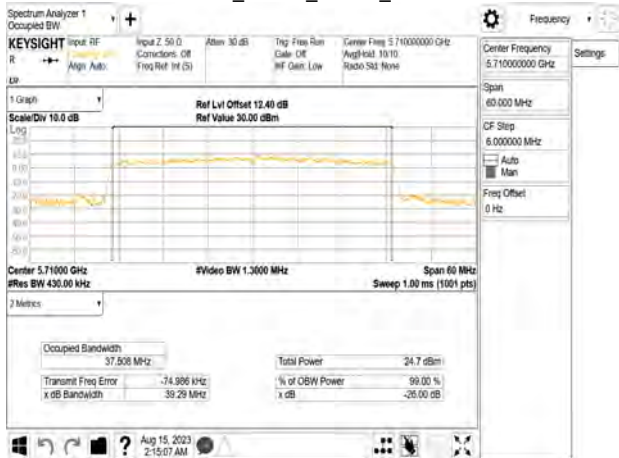
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802.11be_40MHz_Chain3_5795MHz



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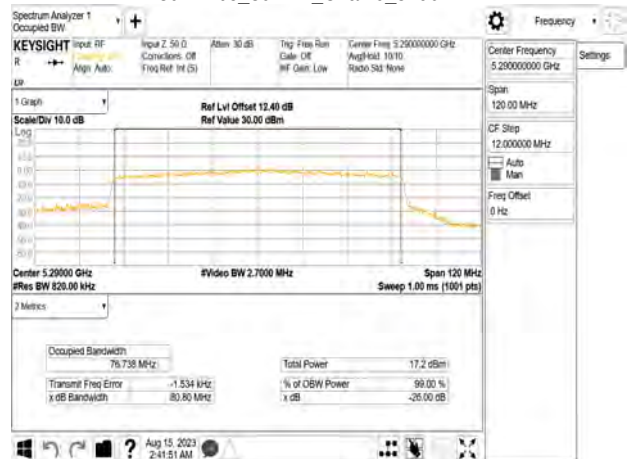
802.11be_80MHz_Chain0_5210MHz



802.11be_40MHz_Chain3_5755MHz



802.11be_80MHz_Chain0_5290MHz



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台灣檢驗科技股份有限公司

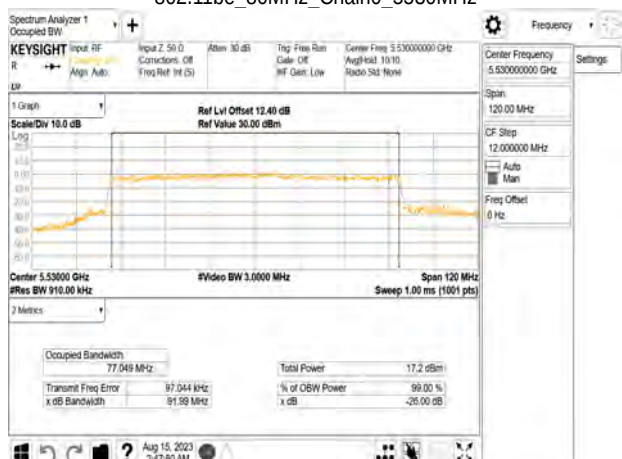
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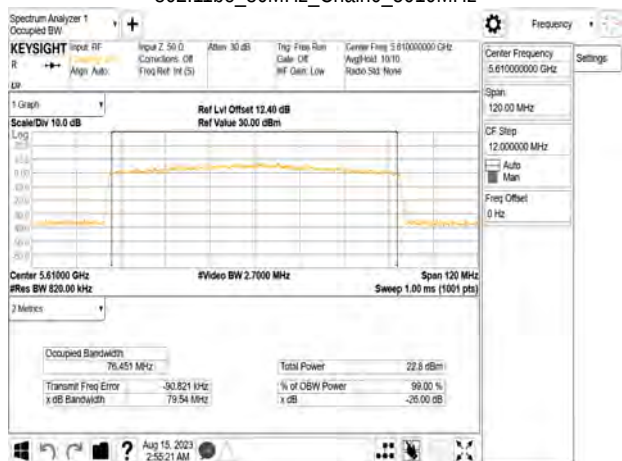
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802.11be_80MHz_Chain0_5775MHz



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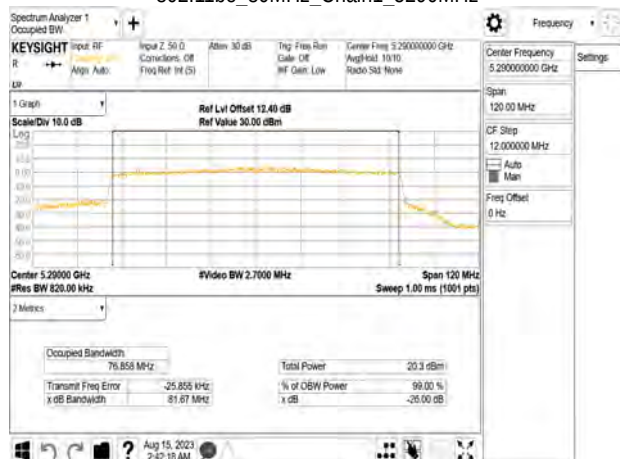
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802.11be_80MHz_Chain0_5690MHz



802.11be_80MHz_Chain1_5290MHz

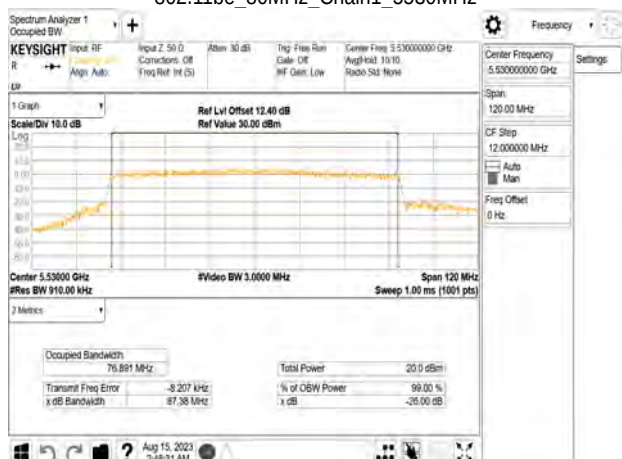


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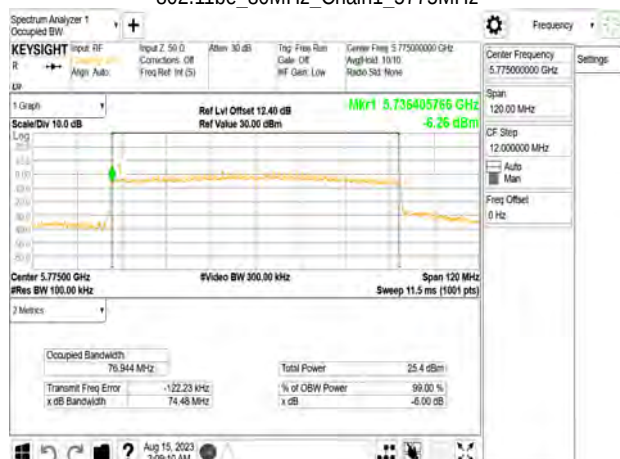
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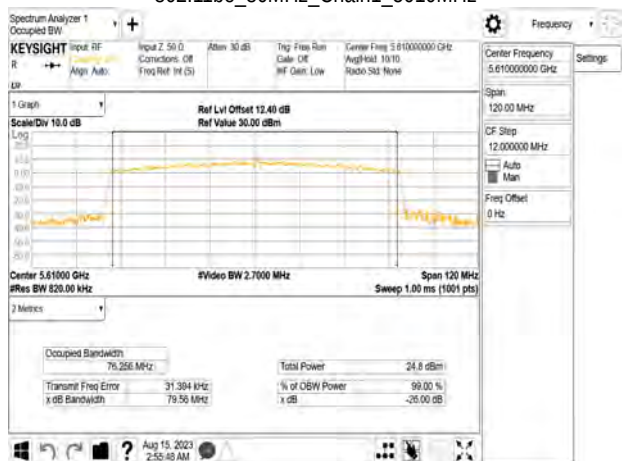
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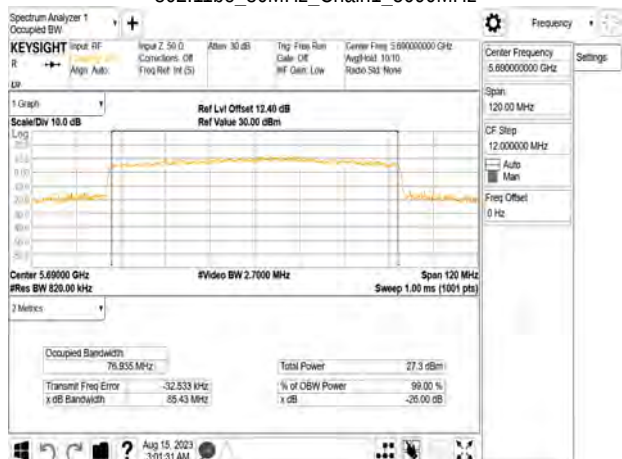
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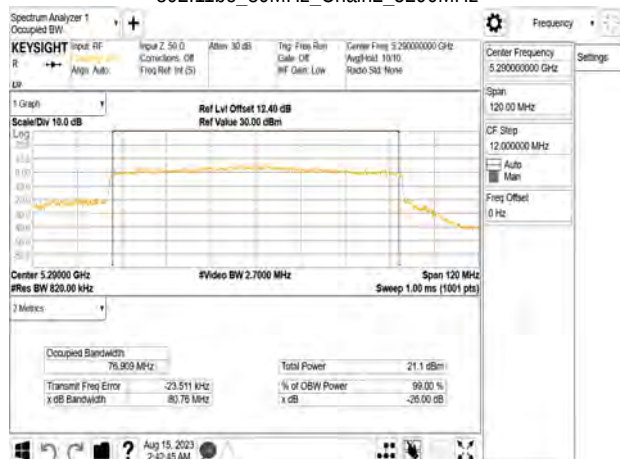
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802.11be_80MHz_Chain1_5690MHz



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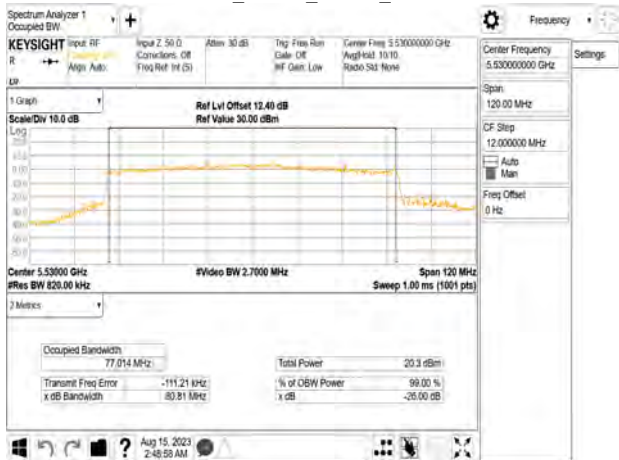


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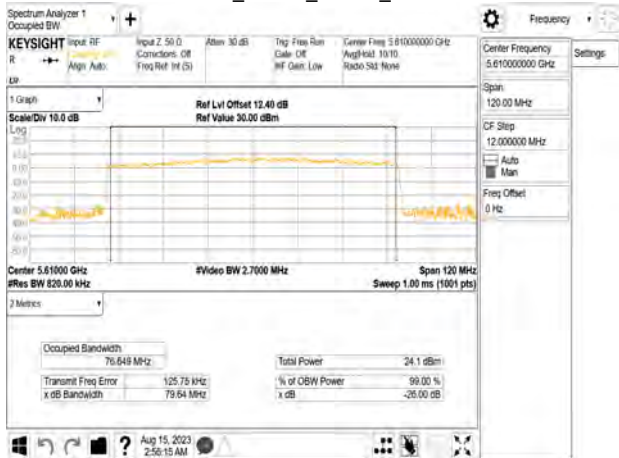
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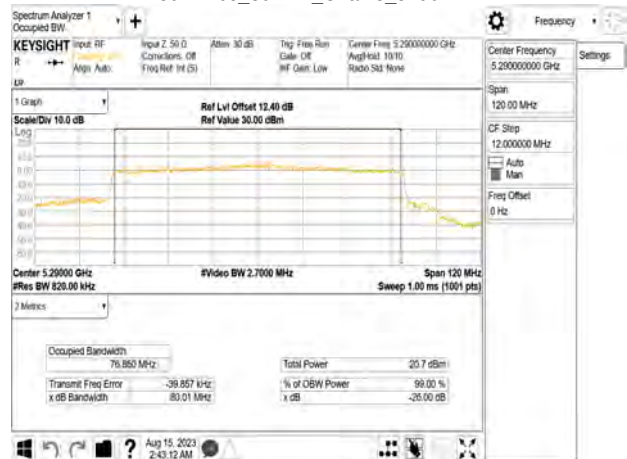
802.11be_80MHz_Chain3_5210MHz



802.11be_80MHz_Chain2_5690MHz



802.11be_80MHz_Chain3_5290MHz



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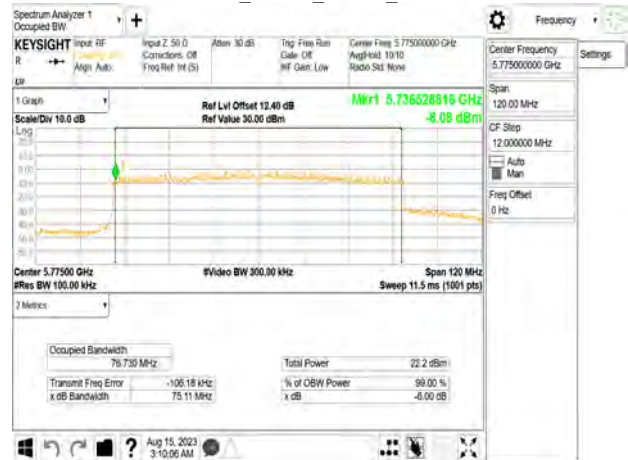
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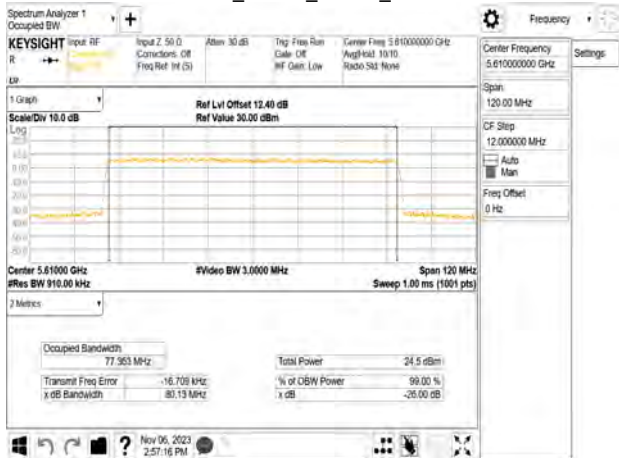
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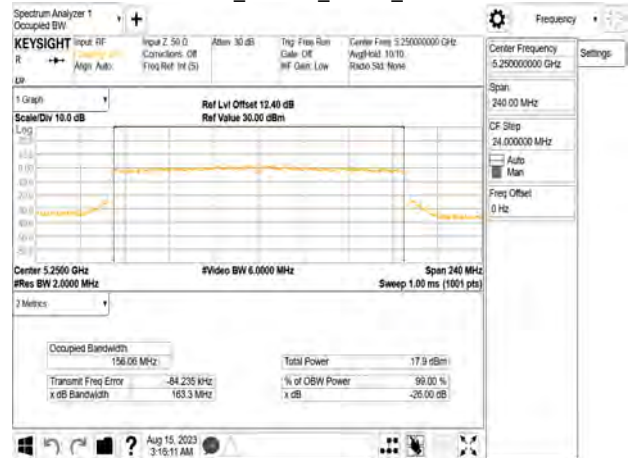
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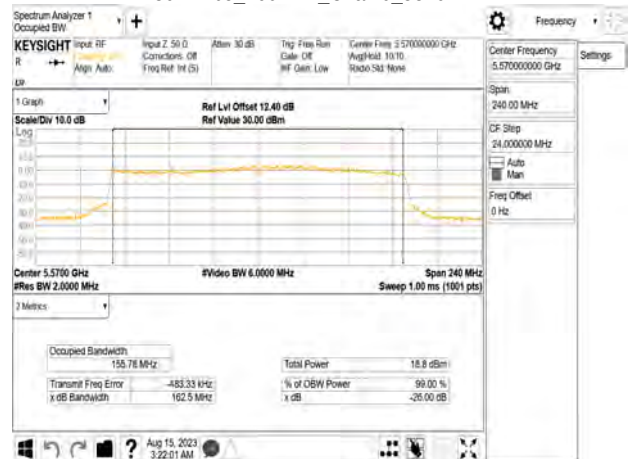
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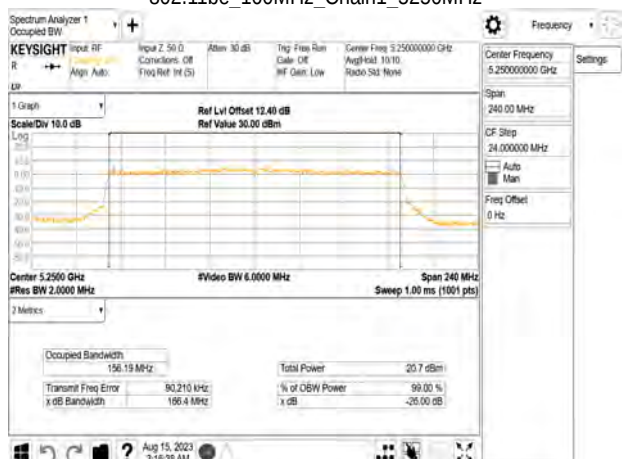


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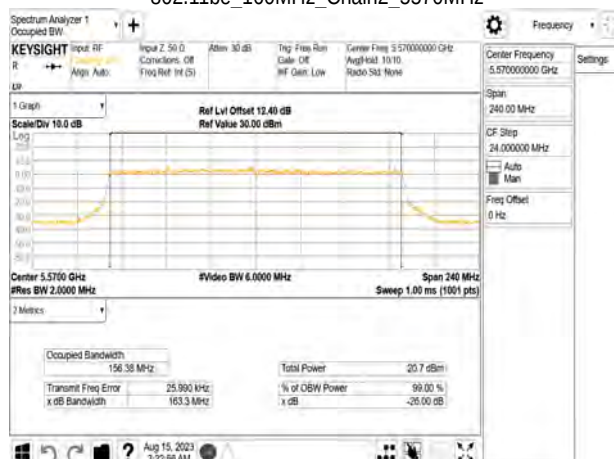
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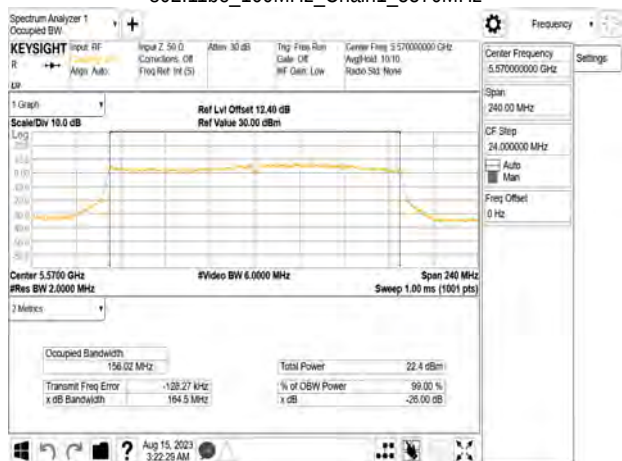
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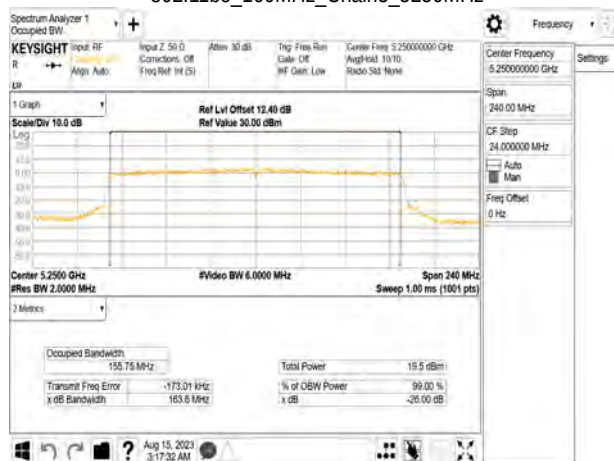
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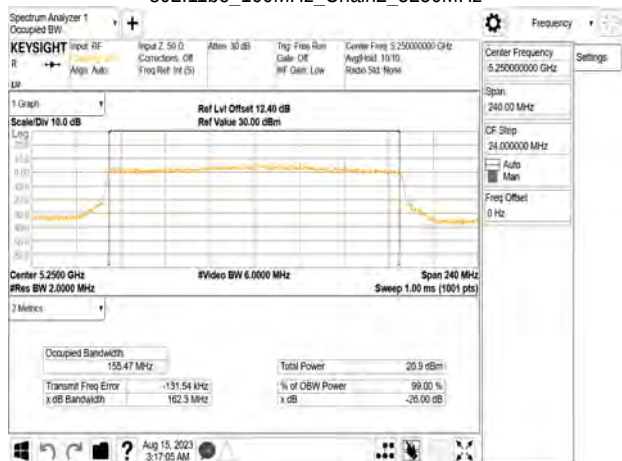
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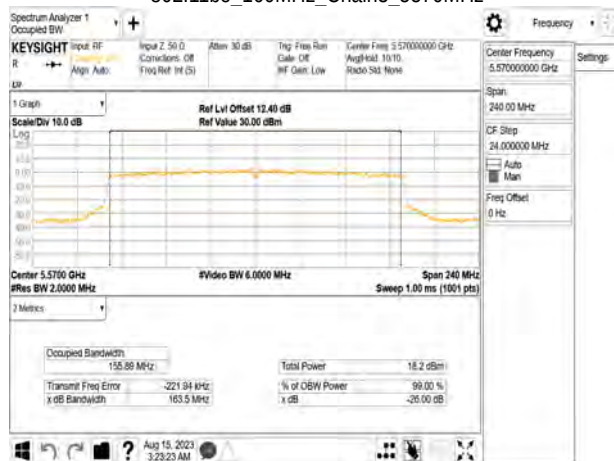
802.11be_160MHz_Chain3_5250MHz



802.11be_160MHz_Chain2_5250MHz



802.11be_160MHz_Chain3_5570MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

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

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

9.1.2 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	V	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
		Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

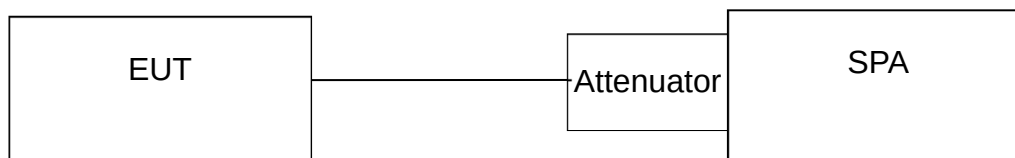
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.
2. For the 10 log B, B is the 26 dB emission bandwidth.

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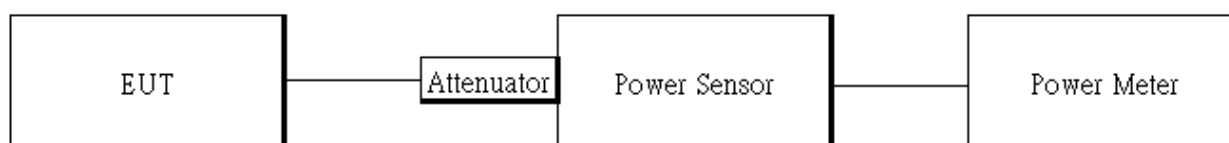
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

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

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = 1/20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

9.4 Duty Cycle Measurement Result

Mode: CDD

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.13	0.08	0.37	0.01
802.11n_20	98.54	0.06	0.24	0.01
802.11n_40	98.77	0.05	0.24	0.01
802.11ac_80	98.78	0.05	0.24	0.01
802.11ac_160	98.78	0.05	0.24	0.01
802.11be_20	98.54	0.06	0.25	0.01
802.11be_40	98.68	0.06	0.25	0.01
802.11be_80	98.68	0.06	0.25	0.01
802.11be_160	98.49	0.07	0.25	0.01

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Mode: Beamforming

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11n_20	98.93	0.05	0.20	0.01
802.11n_40	98.21	0.08	0.41	0.01
802.11ac_80	96.47	0.16	0.87	1.00
802.11ac_160	96.31	0.16	0.87	1.00
802.11be_20	96.31	0.16	0.87	1.00
802.11be_40	97.39	0.11	0.51	1.00
802.11be_80	95.80	0.19	1.04	2.00
802.11be_160	94.85	0.23	1.04	2.00

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CDD_802.11a_20MHz_Chain0_5180MHz



802.11ac_80MHz_Chain0_5210MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_160MHz_Chain0_5250MHz



802.11n_40MHz_Chain0_5190MHz



802.11be_20MHz_Chain0_5180MHz



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802.11be_40MHz_Chain0_5190MHz



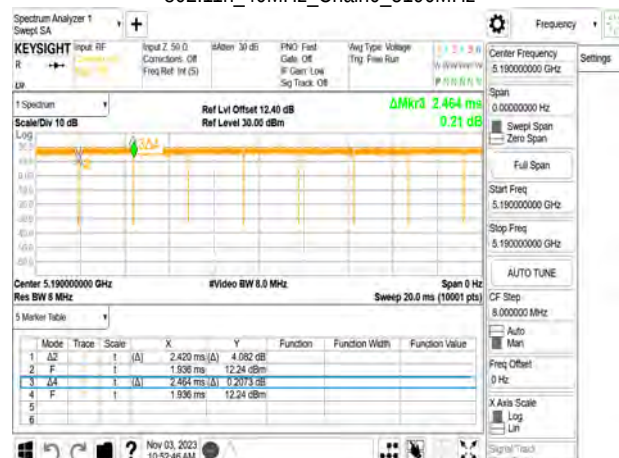
Beamforming_802.11n_20MHz_Chain0_5180MHz



802.11be_80MHz_Chain0_5210MHz



802.11n_40MHz_Chain0_5190MHz



802.11be_160MHz_Chain0_5250MHz



802.11ac_80MHz_Chain0_5210MHz



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802.11ac_160MHz_Chain0_5250MHz



802.11be_80MHz_Chain0_5210MHz



802.11be_20MHz_Chain0_5180MHz



802.11be_160MHz_Chain0_5250MHz



802.11be_40MHz_Chain0_5190MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

Mode: CDD

802.11a_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
36	5180	6	22.90	24.94	23.01	22.35	29.44	879.05	30	PASS
44	5220	6	23.90	23.50	23.65	23.43	29.65	921.80	30	PASS
48	5240	6	24.01	23.74	23.82	23.60	29.82	958.87	30	PASS
52	5260	6	17.20	16.60	16.50	16.64	22.77	189.08	23.98	PASS
60	5300	6	16.82	16.61	17.22	16.33	22.78	189.66	23.98	PASS
64	5320	6	16.29	15.89	16.34	15.71	22.09	161.74	23.98	PASS
100	5500	6	16.42	16.49	16.55	15.97	22.39	173.22	23.98	PASS
116	5580	6	16.50	16.66	16.51	16.10	22.47	176.60	23.98	PASS
140	5700	6	16.39	16.68	16.47	16.08	22.43	175.10	23.98	PASS
144	5720(U-NII 2C)	6	15.73	15.25	15.63	15.29	21.50	141.26	23.98	PASS
144	5720 (U-NII 3)	6	10.69	12.21	11.58	10.46	17.31	53.85	30	PASS
149	5745	6	23.09	23.73	23.66	23.59	29.55	901.00	30	PASS
157	5785	6	23.44	23.71	23.45	23.64	29.58	908.69	30	PASS
165	5825	6	23.46	24.16	23.95	22.93	29.67	927.51	30	PASS

802.11n_HT20_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	23.90	23.64	23.68	23.48	29.70	933.70	30	PASS
44	5220	MCS0	24.23	23.31	23.68	23.24	29.66	924.17	30	PASS
48	5240	MCS0	24.29	23.46	23.77	23.42	29.77	949.22	30	PASS
52	5260	MCS0	17.24	16.67	16.64	16.67	22.83	192.06	23.98	PASS
60	5300	MCS0	16.80	16.61	17.22	16.43	22.79	190.26	23.98	PASS
64	5320	MCS0	16.68	16.53	17.27	16.31	22.73	187.53	23.98	PASS
100	5500	MCS0	16.27	16.24	16.55	16.08	22.31	170.33	23.98	PASS
116	5580	MCS0	16.90	16.54	16.79	15.81	22.55	180.08	23.98	PASS
140	5700	MCS0	16.38	16.62	16.41	16.15	22.42	174.49	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.31	14.89	15.35	15.25	21.23	132.63	23.98	PASS
144	5720 (U-NII 3)	MCS0	11.26	11.86	11.91	10.16	17.37	54.61	30	PASS
149	5745	MCS0	23.09	23.75	23.62	23.59	29.54	900.35	30	PASS
157	5785	MCS0	23.44	23.79	23.48	23.62	29.61	913.93	30	PASS
165	5825	MCS0	23.78	24.20	24.14	23.37	29.91	979.37	30	PASS

802.11n_HT40_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	21.90	21.53	21.27	21.08	27.48	559.80	30	PASS
46	5230	MCS0	24.03	23.87	23.78	23.74	29.88	972.92	30	PASS
54	5270	MCS0	17.95	17.78	17.91	18.15	23.97	249.68	23.98	PASS
62	5310	MCS0	17.15	17.24	17.64	16.67	23.21	209.56	23.98	PASS
102	5510	MCS0	17.84	17.63	18.04	17.17	23.71	234.76	23.98	PASS
110	5550	MCS0	17.88	17.96	18.10	17.05	23.79	239.36	23.98	PASS
134	5670	MCS0	17.47	18.06	17.75	18.21	23.91	245.82	23.98	PASS
142	5710(U-NII 2C)	MCS0	17.12	16.16	17.41	16.84	22.93	196.17	23.98	PASS
142	5710 (U-NII 3)	MCS0	8.54	11.13	8.29	7.59	15.13	32.60	30	PASS
151	5755	MCS0	23.27	23.76	24.23	23.64	29.76	946.88	30	PASS
159	5795	MCS0	23.58	23.85	23.67	23.87	29.77	948.10	30	PASS

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802.11ac_VHT80_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	20.99	19.85	20.59	20.13	26.44	440.13	30	PASS
58	5290	MCS0	16.92	18.51	16.83	16.63	23.32	214.55	23.98	PASS
106	5530	MCS0	17.94	17.78	18.22	17.18	23.82	241.01	23.98	PASS
122	5610	MCS0	17.73	18.39	18.27	17.06	23.92	246.46	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.38	18.06	17.46	17.69	23.68	233.12	23.98	PASS
138	5690 (U-NII 3)	MCS0	5.15	5.65	5.06	5.36	11.33	13.59	30	PASS
155	5775	MCS0	22.91	23.41	23.13	22.96	29.13	818.62	30	PASS

802.11ac_VHT160_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
50	5250	MCS0	17.91	18.27	18.12	16.88	23.85	242.75	23.98	PASS
114	5570	MCS0	18.03	18.26	18.14	17.30	23.97	249.58	23.98	PASS

802.11be_EHT20_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	full	24.21	22.71	24.22	23.35	29.69	931.61	30	PASS
44	5220	MCS0	full	24.14	23.32	23.78	23.49	29.72	937.18	30	PASS
48	5240	MCS0	full	24.18	23.44	23.74	23.47	29.74	942.38	30	PASS
52	5260	MCS0	full	17.34	16.89	16.96	17.04	23.08	203.20	23.98	PASS
60	5300	MCS0	full	17.19	16.93	17.27	16.64	23.03	201.04	23.98	PASS
64	5320	MCS0	full	17.53	16.91	17.90	16.91	23.36	216.66	23.98	PASS
100	5500	MCS0	full	16.47	16.58	16.88	16.51	22.64	183.55	23.98	PASS
116	5580	MCS0	full	17.23	16.87	16.98	16.16	22.85	192.85	23.98	PASS
140	5700	MCS0	full	16.68	17.06	16.54	16.80	22.80	190.49	23.98	PASS
144	5720	MCS0	full	14.80	14.86	15.56	15.16	21.13	129.70	23.98	PASS
144	5720 (U-NII 3)	MCS0	full	10.39	11.58	11.22	10.31	16.93	49.31	30	PASS
149	5745	MCS0	full	23.59	23.50	24.17	23.86	29.81	957.72	30	PASS
157	5785	MCS0	full	23.40	23.80	23.72	23.69	29.68	928.88	30	PASS
165	5825	MCS0	full	23.63	24.00	24.28	23.84	29.97	992.77	30	PASS

802.11be_EHT40_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	full	21.24	19.93	21.02	20.36	26.69	466.32	30	PASS
46	5230	MCS0	full	24.34	24.07	24.15	23.14	29.97	992.47	30	PASS
54	5270	MCS0	full	17.78	18.06	18.11	17.79	23.96	248.65	23.98	PASS
62	5310	MCS0	full	17.09	17.64	17.92	17.21	23.50	223.67	23.98	PASS
102	5510	MCS0	full	17.30	17.36	17.88	17.39	23.51	224.24	23.98	PASS
110	5550	MCS0	full	17.48	18.12	17.87	17.16	23.69	224.24	23.98	PASS
134	5670	MCS0	full	17.31	18.01	17.82	18.43	23.93	247.13	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	16.79	16.77	17.57	17.45	23.18	208.04	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	9.54	10.63	9.71	8.72	15.72	37.36	30	PASS
151	5755	MCS0	full	23.74	24.11	24.07	23.95	29.99	997.28	30	PASS
159	5795	MCS0	full	23.75	23.67	23.88	23.71	29.77	948.75	30	PASS

802.11be_EHT80_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	full	21.29	20.12	20.81	20.32	26.68	465.29	30	PASS
58	5290	MCS0	full	17.64	19.03	17.35	17.06	23.86	243.07	23.98	PASS
106	5530	MCS0	full	17.78	17.46	18.18	17.70	23.81	240.22	23.98	PASS
122	5610	MCS0	full	17.33	18.09	17.93	17.21	23.67	233.06	23.98	PASS
138	5690	MCS0	full	17.02	17.56	17.14	17.83	23.42	219.78	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	5.13	7.52	5.32	5.96	12.11	16.26	30	PASS
155	5775	MCS0	full	21.90	21.99	22.30	22.36	28.16	654.67	30	PASS

802.11be_EHT160_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
50	5250	MCS0	full	17.52	18.17	17.95	17.10	23.72	235.56	23.98	PASS
114	5570	MCS0	full	17.70	18.19	17.98	17.61	23.89	245.06	23.98	PASS

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Mode: Beamforming

802.11n_HT20_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	23.69	23.51	23.83	23.20	29.58	908.062	30	PASS
44	5220	MCS0	23.16	23.93	23.26	23.57	29.51	892.858	30	PASS
48	5240	MCS0	23.32	23.86	23.39	23.47	29.53	897.929	30	PASS
52	5260	MCS0	16.68	16.64	16.68	16.72	22.70	186.098	23.56	PASS
60	5300	MCS0	16.63	16.68	16.79	16.78	22.74	187.838	23.56	PASS
64	5320	MCS0	16.66	16.47	16.88	16.53	22.66	184.297	23.56	PASS
100	5500	MCS0	16.33	16.23	16.27	15.93	22.21	166.342	22.99	PASS
116	5580	MCS0	16.22	16.67	16.80	16.06	22.47	176.425	22.99	PASS
140	5700	MCS0	16.20	16.14	16.27	16.16	22.21	166.345	22.99	PASS
144	5720(U-NII 2C)	MCS0	15.17	14.83	14.81	15.34	21.06	127.679	22.61	PASS
144	5720 (U-NII 3)	MCS0	11.11	11.81	11.36	10.24	17.19	52.328	29.7	PASS
149	5745	MCS0	23.13	23.81	22.68	23.60	29.34	859.816	29.7	PASS
157	5785	MCS0	23.36	23.90	22.89	23.76	29.51	893.786	29.7	PASS
165	5825	MCS0	23.36	24.07	22.99	23.33	29.47	885.717	29.7	PASS

802.11n_HT40_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	21.21	21.95	21.34	21.12	27.44	554.170	30	PASS
46	5230	MCS0	23.62	24.00	23.56	23.80	29.77	947.863	30	PASS
54	5270	MCS0	17.60	16.47	17.99	17.71	23.50	223.795	23.56	PASS
62	5310	MCS0	16.85	17.03	17.29	16.31	22.90	195.149	23.56	PASS
102	5510	MCS0	16.56	16.97	17.01	16.86	22.87	193.757	22.99	PASS
110	5550	MCS0	17.10	16.81	16.91	16.70	22.90	195.054	22.99	PASS
134	5670	MCS0	17.19	16.90	16.82	16.66	22.92	195.696	22.99	PASS
142	5710(U-NII 2C)	MCS0	15.96	15.12	16.12	16.31	21.92	155.666	22.99	PASS
142	5710 (U-NII 3)	MCS0	7.38	10.09	7.00	7.07	14.11	25.786	29.7	PASS
151	5755	MCS0	23.50	23.86	22.93	24.03	29.62	916.030	29.7	PASS
159	5795	MCS0	23.60	23.69	23.16	23.94	29.63	917.398	29.7	PASS

802.11ac_VHT80_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	20.69	20.08	20.48	20.19	26.38	434.844	30	PASS
58	5290	MCS0	17.14	17.27	17.63	16.64	23.20	208.980	23.56	PASS
106	5530	MCS0	16.98	16.77	16.58	17.08	22.87	193.796	22.99	PASS
122	5610	MCS0	16.71	16.88	17.14	16.29	22.78	189.816	22.99	PASS
138	5690(U-NII 2C)	MCS0	16.88	15.99	16.06	16.46	22.39	173.186	22.99	PASS
138	5690 (U-NII 3)	MCS0	4.66	3.58	3.66	4.14	10.05	10.119	29.7	PASS
155	5775	MCS0	22.91	23.39	22.39	23.23	29.01	796.745	29.7	PASS

802.11ac_VHT160_4TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1	Ch2	Ch3				
50	5250	MCS0	17.58	17.55	18.04	16.45	23.47	222.170	23.56	PASS
114	5570	MCS0	17.04	16.51	16.44	17.32	22.87	193.507	22.99	PASS

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802.11be_EHT20_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	full	23.50	24.04	23.37	23.58	29.65	923.388	30	PASS
44	5220	MCS0	full	23.58	24.17	23.34	23.54	29.69	931.673	30	PASS
48	5240	MCS0	full	23.38	24.28	23.29	23.72	29.71	935.205	30	PASS
52	5260	MCS0	full	17.18	17.04	17.12	16.58	23.01	199.995	23.56	PASS
60	5300	MCS0	full	17.14	17.11	16.69	16.27	22.84	192.341	23.56	PASS
64	5320	MCS0	full	16.99	17.23	17.15	16.43	22.98	198.833	23.56	PASS
100	5500	MCS0	full	16.64	16.70	16.74	16.13	22.58	181.269	23.56	PASS
116	5580	MCS0	full	16.23	16.94	16.69	15.55	22.41	174.097	23.56	PASS
140	5700	MCS0	full	16.43	16.53	16.58	16.23	22.47	176.540	23.56	PASS
144	5720	MCS0	full	15.29	14.95	15.06	15.01	21.10	128.900	22.72	PASS
144	5720 (U-NII 3)	MCS0	full	10.88	11.67	10.72	10.16	16.91	49.106	29.7	PASS
149	5745	MCS0	full	23.01	23.70	23.40	23.44	29.42	874.647	29.7	PASS
157	5785	MCS0	full	23.29	23.59	23.32	23.64	29.49	888.526	29.7	PASS
165	5825	MCS0	full	23.32	23.47	24.08	22.91	29.49	889.079	29.7	PASS

802.11be_EHT40_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	full	20.23	21.09	20.44	20.59	26.62	459.695	30	PASS
46	5230	MCS0	full	23.77	24.02	23.97	23.49	29.84	964.475	30	PASS
54	5270	MCS0	full	17.33	17.26	17.63	17.44	23.44	220.939	23.56	PASS
62	5310	MCS0	full	17.24	17.52	17.58	16.64	23.29	213.110	23.56	PASS
102	5510	MCS0	full	16.84	16.77	16.99	17.03	22.93	196.529	22.99	PASS
110	5550	MCS0	full	16.82	17.05	16.65	16.98	22.90	196.529	22.99	PASS
134	5670	MCS0	full	16.66	16.29	16.55	16.44	22.51	178.345	22.99	PASS
142	5710(U-NII 2C)	MCS0	full	16.25	16.28	16.12	16.08	22.20	166.013	22.99	PASS
142	5710 (U-NII 3)	MCS0	full	9.00	10.14	8.26	7.35	14.83	30.387	29.7	PASS
151	5755	MCS0	full	23.30	23.73	23.49	23.79	29.61	913.554	29.7	PASS
159	5795	MCS0	full	23.39	23.59	23.39	23.65	29.53	897.849	29.7	PASS

802.11be_EHT80_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	full	21.08	20.57	20.61	20.32	26.67	464.593	30	PASS
58	5290	MCS0	full	17.11	17.45	16.67	16.42	22.95	197.133	23.56	PASS
106	5530	MCS0	full	16.66	17.08	17.11	16.92	22.96	197.837	22.99	PASS
122	5610	MCS0	full	16.52	17.26	16.56	16.80	22.81	191.077	22.99	PASS
138	5690	MCS0	full	16.13	16.64	16.76	16.43	22.52	178.546	22.99	PASS
138	5690 (U-NII 3)	MCS0	full	4.25	6.60	4.93	4.56	11.21	13.208	29.7	PASS
155	5775	MCS0	full	21.73	22.07	21.42	21.96	27.82	605.203	29.7	PASS

802.11be_EHT160_4TX

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
50	5250	MCS0	full	17.50	17.24	17.39	17.78	23.50	223.988	23.56	PASS
114	5570	MCS0	full	16.91	17.05	16.76	17.01	22.95	197.431	23.56	PASS

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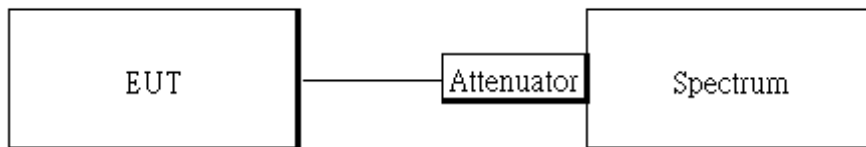
10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	V	Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
		Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 1/20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

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10.4 Measurement Result

Mode: CDD

POWER DENSITY 802.11a MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	10.836	11.151	8.951	10.178	0.00	16.38		17.00 dBm/MHz	-0.62
5220	10.628	11.327	11.157	9.703	0.00	16.77		17.00 dBm/MHz	-0.23
5240	10.553	11.738	10.421	9.802	0.00	16.71		17.00 dBm/MHz	-0.29
5260	4.806	4.321	4.383	4.322	0.00	10.48		10.58 dBm/MHz	-0.10
5300	4.429	4.545	4.995	3.973	0.00	10.52		10.58 dBm/MHz	-0.06
5320	3.814	4.837	4.337	3.684	0.00	10.21		10.58 dBm/MHz	-0.37
5500	3.741	3.577	4.064	3.837	0.00	9.83		10.01 dBm/MHz	-0.18
5580	3.501	4.304	3.942	3.083	0.00	9.75		10.01 dBm/MHz	-0.26
5700	3.490	4.013	4.016	3.827	0.00	9.86		10.01 dBm/MHz	-0.15
5720 (U-NII 2C)	3.380	4.076	3.996	3.319	0.00	9.73		10.01 dBm/MHz	-0.28
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.137	-1.367	-1.422	-1.902	0.00	2.22	6.55	29.70 dBm/500kHz	-23.15
5745	7.673	8.167	7.154	8.164	0.00	2.22	16.05	29.70 dBm/500kHz	-13.65
5785	7.521	7.536	7.479	7.365	0.00	2.22	15.72	29.70 dBm/500kHz	-13.98
5825	7.257	8.208	7.752	7.227	0.00	2.22	15.87	29.70 dBm/500kHz	-13.83
POWER DENSITY 802.11n HT20 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	10.627	11.172	11.602	10.051	0.00	16.92		17.00 dBm/MHz	-0.08
5220	10.459	11.270	10.389	9.838	0.00	16.54		17.00 dBm/MHz	-0.46
5240	10.487	11.087	10.154	9.945	0.00	16.46		17.00 dBm/MHz	-0.54
5260	4.405	4.459	4.469	4.185	0.00	10.40		10.58 dBm/MHz	-0.18
5300	4.244	4.470	4.617	4.159	0.00	10.40		10.58 dBm/MHz	-0.18
5320	4.390	4.607	5.014	3.99	0.00	10.54		10.58 dBm/MHz	-0.04
5500	3.526	3.852	3.875	3.46	0.00	9.70		10.01 dBm/MHz	-0.31
5580	3.560	4.331	4.473	3.34	0.00	9.97		10.01 dBm/MHz	-0.04
5700	3.365	4.226	3.653	3.187	0.00	9.65		10.01 dBm/MHz	-0.36
5720 (U-NII 2C)	3.701	3.546	3.823	3.402	0.00	9.64		10.01 dBm/MHz	-0.37
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.862	-2.792	-2.501	-3.136	0.00	2.22	5.42	29.70 dBm/500kHz	-24.28
5745	6.670	7.535	7.532	7.884	0.00	2.22	15.67	29.70 dBm/500kHz	-14.03
5785	7.369	7.813	8.216	7.697	0.00	2.22	16.02	29.70 dBm/500kHz	-13.68
5825	7.223	7.725	7.468	7.39	0.00	2.22	15.70	29.70 dBm/500kHz	-14.00
POWER DENSITY 802.11n HT40 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	6.898	6.935	7.285	6.384	0.00	12.91		17.00 dBm/MHz	-4.09
5230	11.131	11.082	10.958	9.875	0.00	16.81		17.00 dBm/MHz	-0.19
5270	4.196	4.262	4.472	3.735	0.00	10.20		10.58 dBm/MHz	-0.38
5310	2.317	2.515	2.706	2.168	0.00	8.45		10.58 dBm/MHz	-2.13
5510	4.072	3.476	3.62	3.203	0.00	9.62		10.01 dBm/MHz	-0.39
5550	3.565	3.710	4.169	3.135	0.00	9.68		10.01 dBm/MHz	-0.33
5670	3.072	3.807	3.34	3.8	0.00	9.54		10.01 dBm/MHz	-0.47
5710 (U-NII 2C)	2.959	3.094	3.033	2.692	0.00	8.97		10.01 dBm/MHz	-1.04
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-2.652	-2.174	-2.626	-2.736	0.00	2.22	5.70	29.70 dBm/500kHz	-24.00
5755	3.911	4.204	4.621	4.544	0.00	2.22	12.57	29.70 dBm/500kHz	-17.13
5795	3.758	3.892	4.1	3.675	0.00	2.22	12.10	29.70 dBm/500kHz	-17.60

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POWER DENSITY 802.11ac VHT80 MODE										
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)	
5210	0.874	1.457	-0.639	-0.078	0.00	6.50		17.00 dBm/MHz	-10.50	
5290	-0.392	-0.506	-0.094	-0.995	0.00	5.54		10.58 dBm/MHz	-5.04	
5530	0.766	0.478	0.898	-0.205	0.00	6.53		10.01 dBm/MHz	-3.48	
5610	0.085	1.115	0.672	-0.419	0.00	6.42		10.01 dBm/MHz	-3.59	
5690 (U-NII 2C)	0.433	0.788	0.484	0.413	0.00	6.55		10.01 dBm/MHz	-3.46	
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)	
5690 (U-NII 3)	-5.227	-4.499	-6.279	-5.401	0.00	2.22	2.93	29.70 dBm/500kHz	-26.77	
5775	0.935	0.608	1.37	0.812	0.00	2.22	9.18	29.70 dBm/500kHz	-20.52	
POWER DENSITY 802.11ac VHT160 MODE										
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)	
5250	-2.676	-2.229	-2.894	-3.957	0.00	3.13		10.58 dBm/MHz	-7.45	
5570	-1.841	-1.470	-1.68	-2.914	0.00	4.08		10.01 dBm/MHz	-5.93	
POWER DENSITY 802.11be EHT20 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	10.149	10.489	10.877	9.365	0.00	16.28		17.00 dBm/MHz	-0.72
5220	full	10.794	11.393	11.008	9.97	0.00	16.84		17.00 dBm/MHz	-0.16
5240	full	10.889	11.248	10.189	9.745	0.00	16.58		17.00 dBm/MHz	-0.42
5260	full	4.752	4.110	4.685	4.398	0.00	10.51		10.58 dBm/MHz	-0.07
5300	full	4.375	4.864	4.646	4.079	0.00	10.52		10.58 dBm/MHz	-0.06
5320	full	4.307	4.553	4.918	3.867	0.00	10.45		10.58 dBm/MHz	-0.13
5500	full	3.743	3.541	4.045	3.421	0.00	9.71		10.01 dBm/MHz	-0.30
5580	full	3.420	4.306	4.498	3.381	0.00	9.95		10.01 dBm/MHz	-0.06
5700	full	3.603	4.179	3.87	3.436	0.00	9.80		10.01 dBm/MHz	-0.21
5720 (U-NII 2C)	full	3.748	3.512	3.871	3.308	0.00	9.64		10.01 dBm/MHz	-0.37
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-1.839	-1.103	-0.843	-1.93	0.00	2.22	6.84	29.70 dBm/500kHz	-22.86
5745	full	7.426	7.263	7.691	7.422	0.00	2.22	15.69	29.70 dBm/500kHz	-14.01
5785	full	7.597	7.435	7.65	7.318	0.00	2.22	15.74	29.70 dBm/500kHz	-13.96
5825	full	7.702	8.167	8.11	7.127	0.00	2.22	16.04	29.70 dBm/500kHz	-13.66
POWER DENSITY 802.11be EHT40 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	5.140	5.423	5.188	4.274	0.00	5.42		17.00 dBm/MHz	-11.58
5230	full	9.711	10.170	9.645	8.791	0.00	10.17		17.00 dBm/MHz	-6.83
5270	full	3.513	3.273	3.226	2.847	0.00	3.51		10.58 dBm/MHz	-7.07
5310	full	2.682	2.627	2.77	1.974	0.00	2.77		10.58 dBm/MHz	-7.81
5510	full	3.296	2.396	2.705	2.481	0.00	3.30		10.01 dBm/MHz	-6.71
5550	full	2.945	2.663	3.092	1.936	0.00	3.09		10.01 dBm/MHz	-6.92
5670	full	2.881	3.478	3.19	3.551	0.00	3.55		10.01 dBm/MHz	-6.46
5710 (U-NII 2C)	full	3.036	2.901	3.043	2.879	0.00	3.04		10.01 dBm/MHz	-6.97
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-2.864	-2.283	-1.96	-2.749	0.00	2.22	5.79	29.70 dBm/500kHz	-23.91
5755	full	4.514	4.591	4.473	4.42	0.00	2.22	12.74	29.70 dBm/500kHz	-16.96
5795	full	5.230	5.268	5.51	5.558	0.00	2.22	13.63	29.70 dBm/500kHz	-16.07

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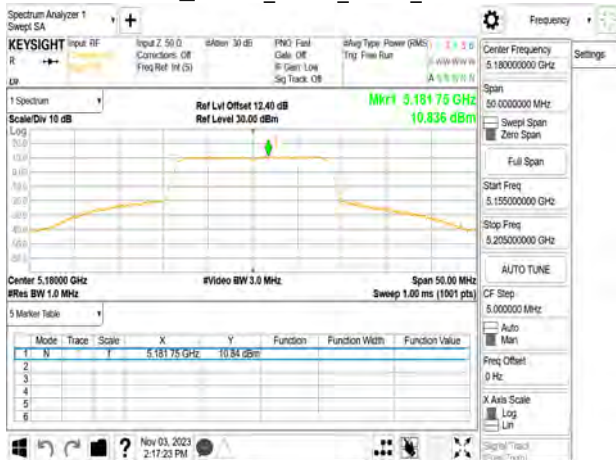
POWER DENSITY 802.11be EHT80 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	3.658	3.208	2.733	3.672	0.00	9.36		17.00 dBm/MHz	-7.64
5290	full	-0.617	-0.851	-1.355	-1.594	0.00	4.93		10.58 dBm/MHz	-5.65
5530	full	1.166	0.810	1.156	0.466	0.00	6.93		10.01 dBm/MHz	-3.08
5610	full	0.036	0.711	0.561	-0.279	0.00	6.30		10.01 dBm/MHz	-3.71
5690 (U-NII 2C)	full	0.519	0.307	0.347	0.461	0.00	6.43		10.01 dBm/MHz	-3.58
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-5.290	-4.597	-6.069	-5.549	0.00	2.22	2.90	29.70 dBm/500kHz	-26.80
5775	full	0.384	0.510	1.078	1.227	0.00	2.22	9.06	29.70 dBm/500kHz	-20.64
POWER DENSITY 802.11be EHT160 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	full	-2.508	-1.787	-2.89	-3.626	0.00	3.37		10.58 dBm/MHz	-7.21
5570	full	-1.331	-1.668	-1.643	-2.532	0.00	4.25		10.01 dBm/MHz	-5.76

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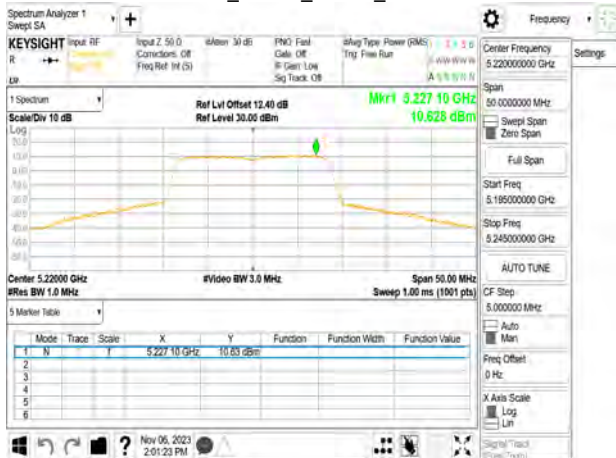
CDD_802.11a_20MHz_Chain0_5180MHz



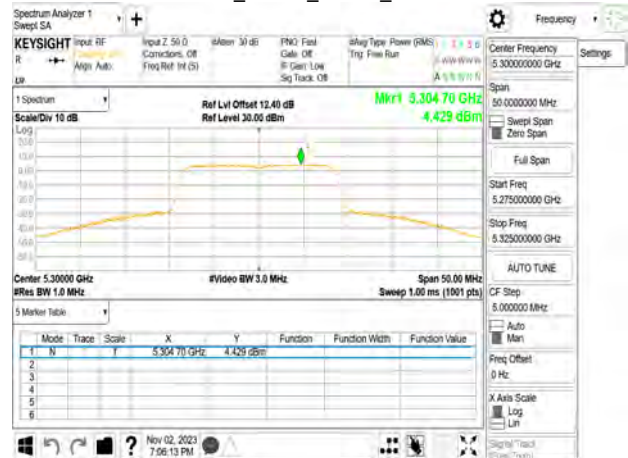
802.11a_20MHz_Chain0_5260MHz



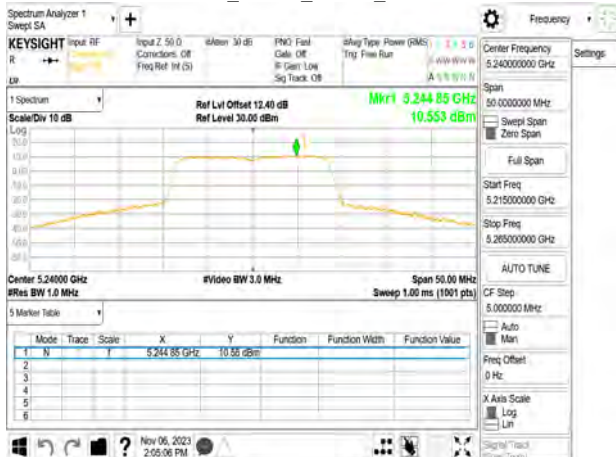
802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

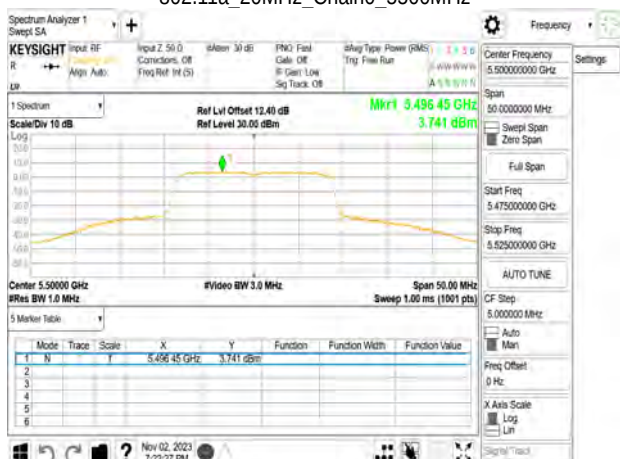


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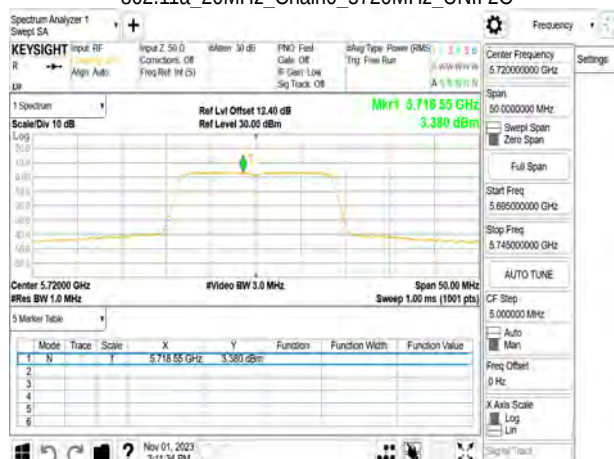
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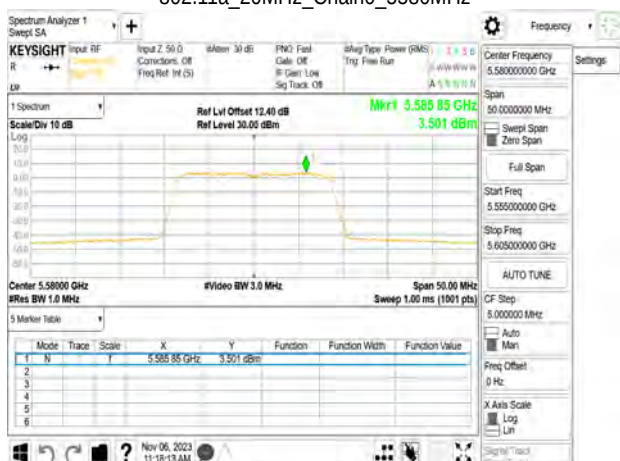
802.11a_20MHz_Chain0_5500MHz



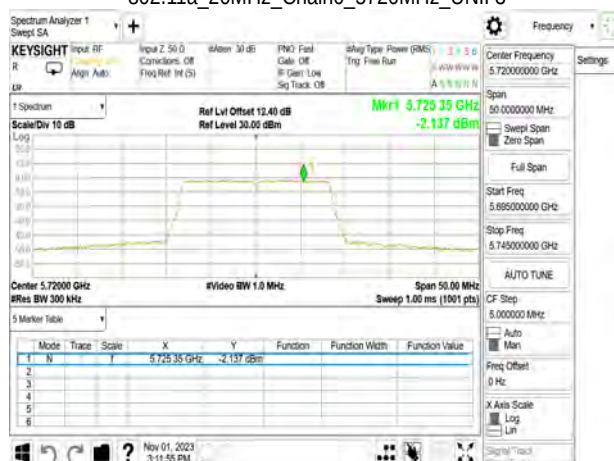
802.11a_20MHz_Chain0_5720MHz_UNII 2C



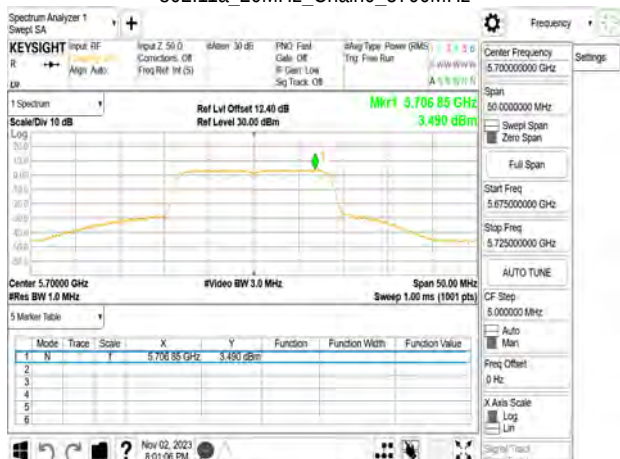
802.11a_20MHz_Chain0_5580MHz



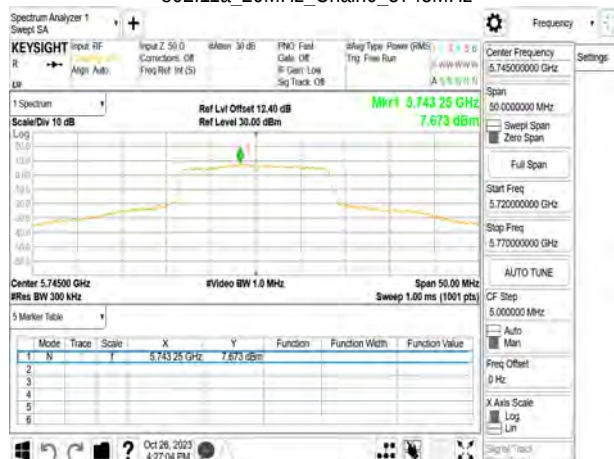
802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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802.11a_20MHz_Chain0_5785MHz



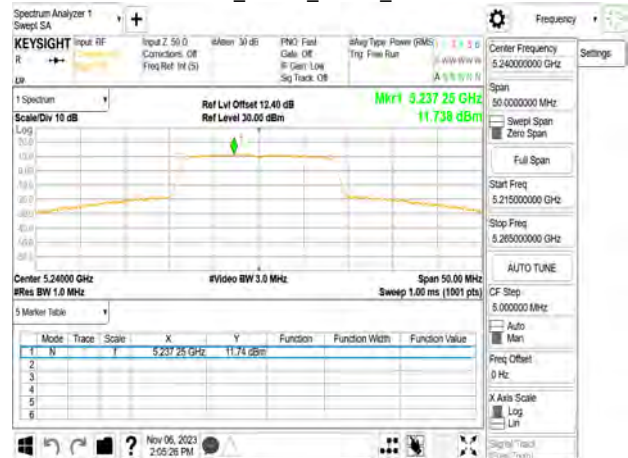
802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain0_5825MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz

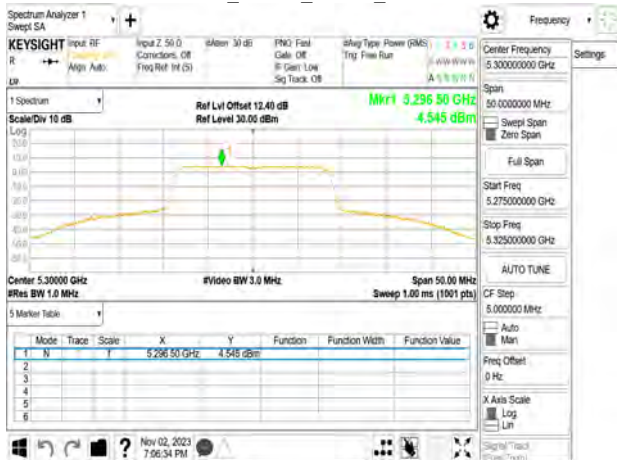


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802.11a_20MHz_Chain1_5300MHz



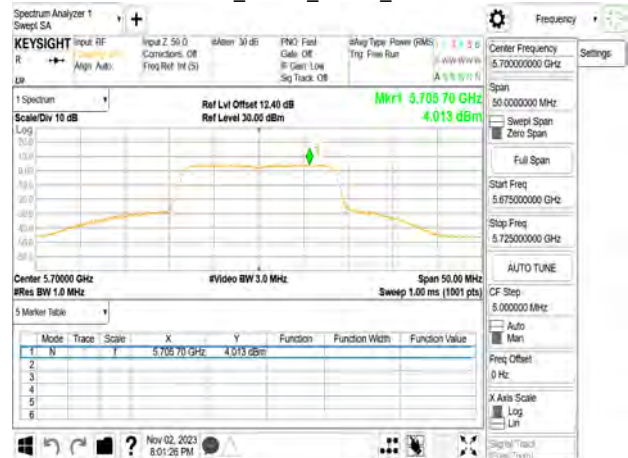
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



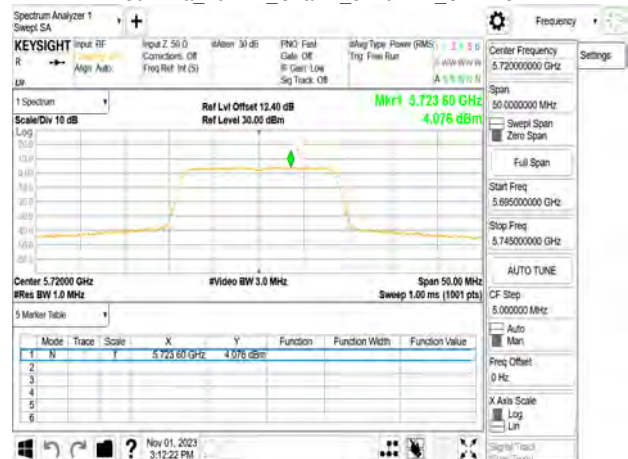
802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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802.11a_20MHz_Chain1_5720MHz_UNII 3



802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain1_5745MHz



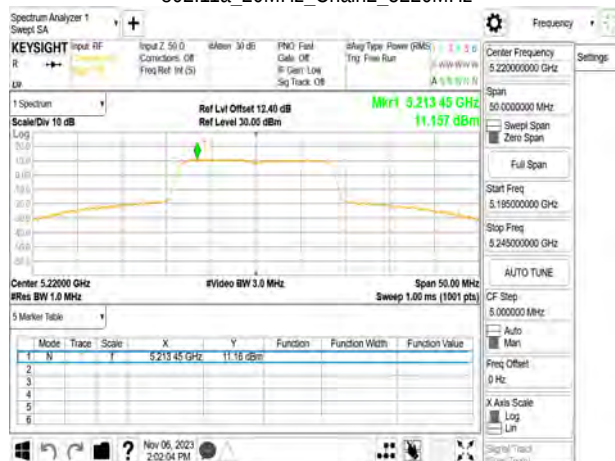
802.11a_20MHz_Chain2_5180MHz



802.11a_20MHz_Chain1_5785MHz



802.11a_20MHz_Chain2_5220MHz

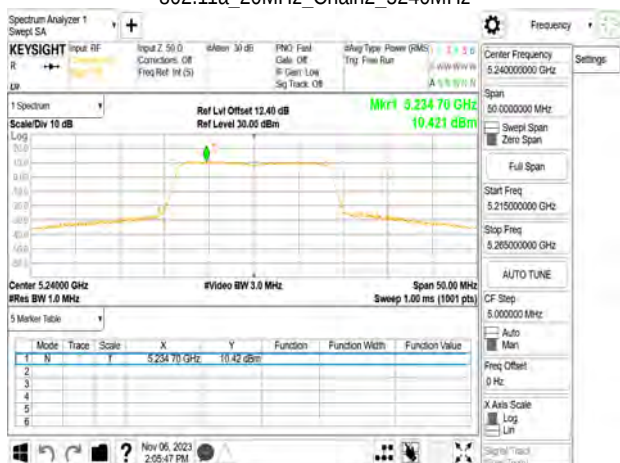


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802.11a_20MHz_Chain2_5240MHz



802.11a_20MHz_Chain2_5320MHz



802.11a_20MHz_Chain2_5260MHz



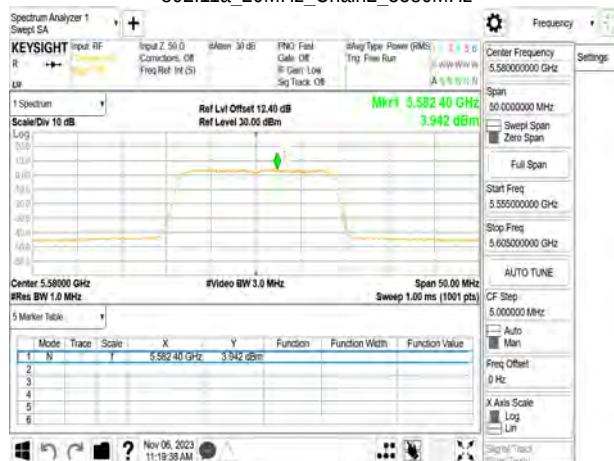
802.11a_20MHz_Chain2_5500MHz



802.11a_20MHz_Chain2_5300MHz



802.11a_20MHz_Chain2_5580MHz

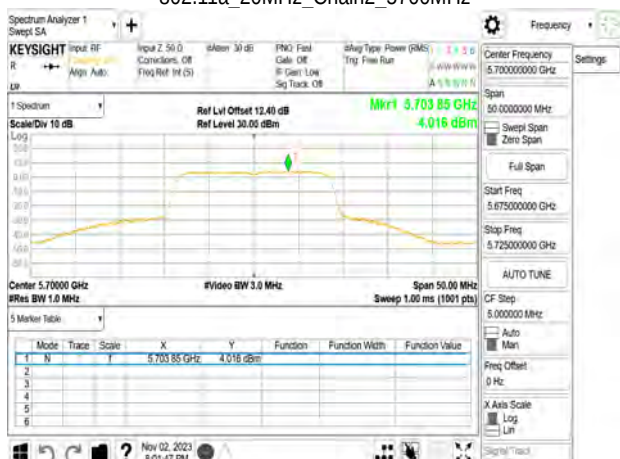


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802.11a_20MHz_Chain2_5700MHz



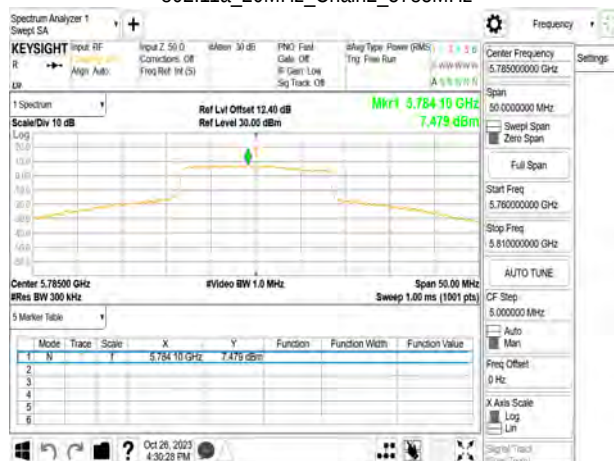
802.11a_20MHz_Chain2_5745MHz



802.11a_20MHz_Chain2_5720MHz_UNII 2C



802.11a_20MHz_Chain2_5785MHz



802.11a_20MHz_Chain2_5720MHz_UNII 3



802.11a_20MHz_Chain2_5825MHz



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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

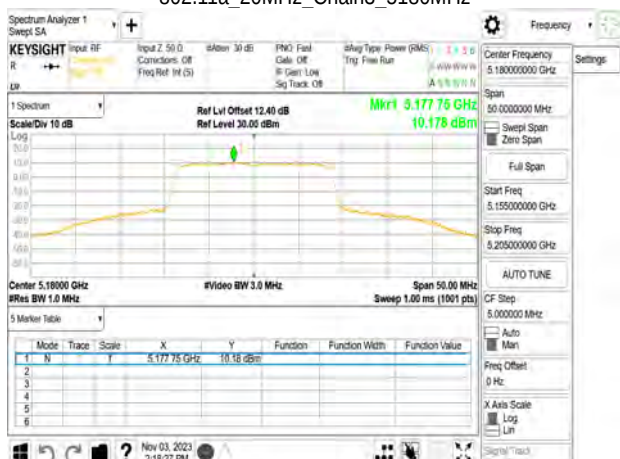
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802.11a_20MHz_Chain3_5180MHz



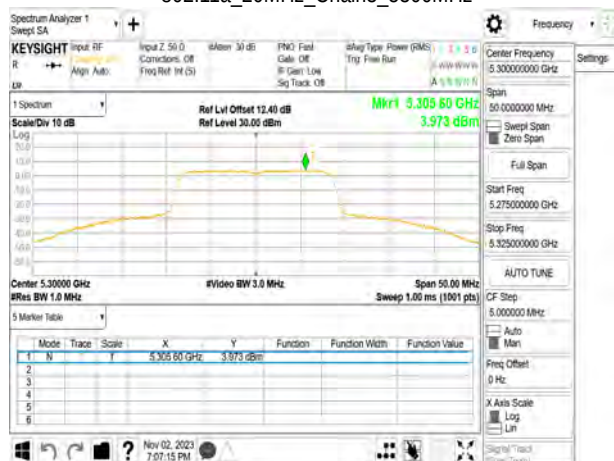
802.11a_20MHz_Chain3_5260MHz



802.11a_20MHz_Chain3_5220MHz



802.11a_20MHz_Chain3_5300MHz



802.11a_20MHz_Chain3_5240MHz



802.11a_20MHz_Chain3_5320MHz

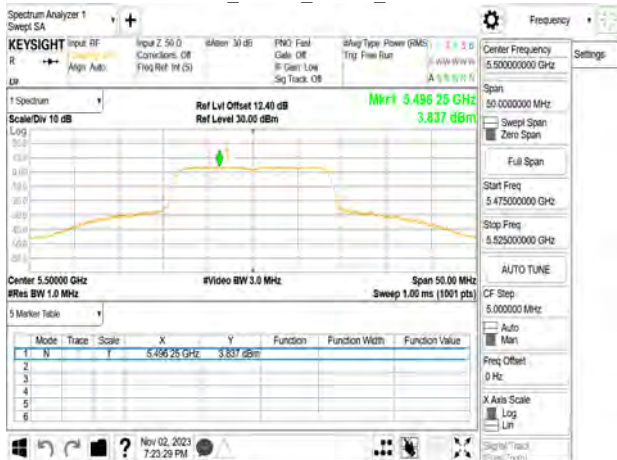


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802.11a_20MHz_Chain3_5500MHz



802.11a_20MHz_Chain3_5720MHz_UNII 2C



802.11a_20MHz_Chain3_5580MHz



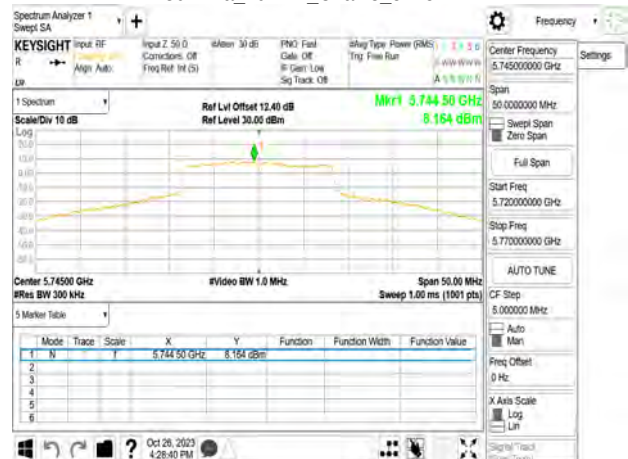
802.11a_20MHz_Chain3_5720MHz_UNII 3



802.11a_20MHz_Chain3_5700MHz



802.11a_20MHz_Chain3_5745MHz



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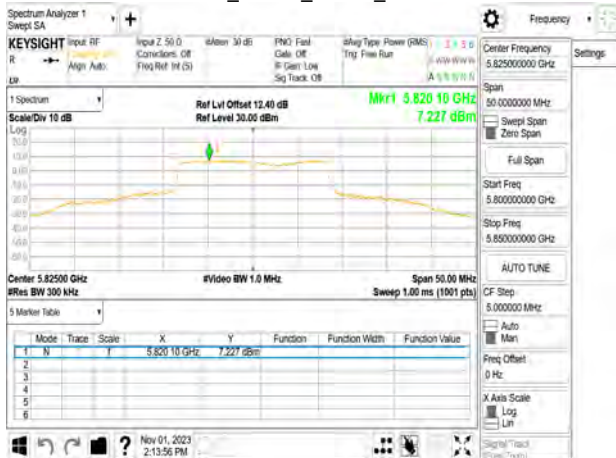
802.11a_20MHz_Chain3_5785MHz



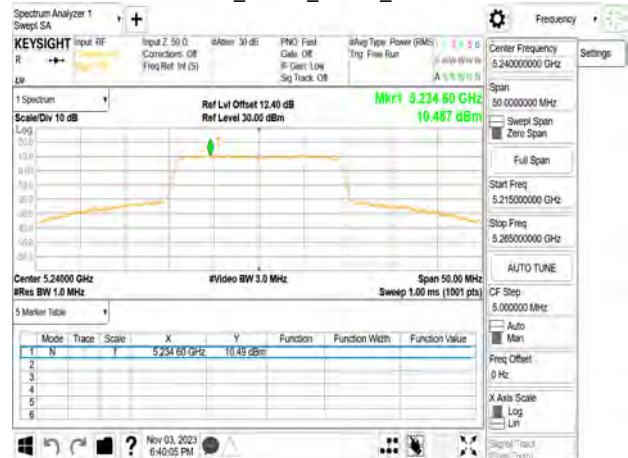
802.11n_20MHz_Chain0_5220MHz



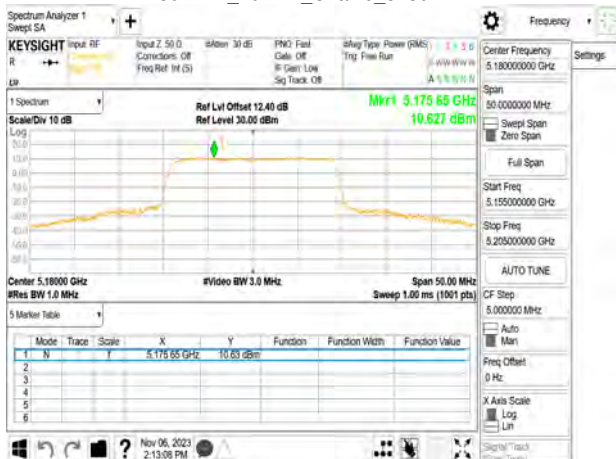
802.11a_20MHz_Chain3_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



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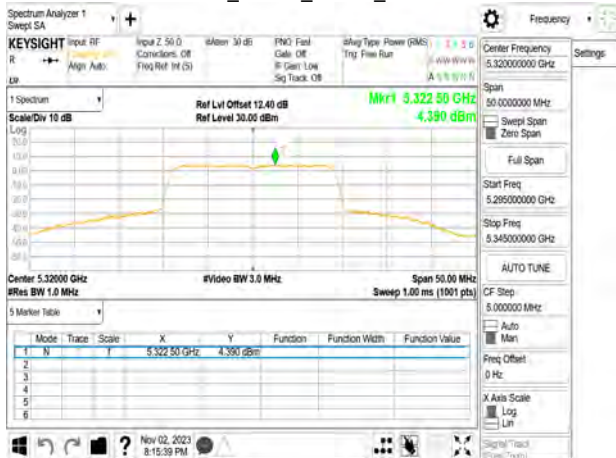
802.11n_20MHz_Chain0_5300MHz



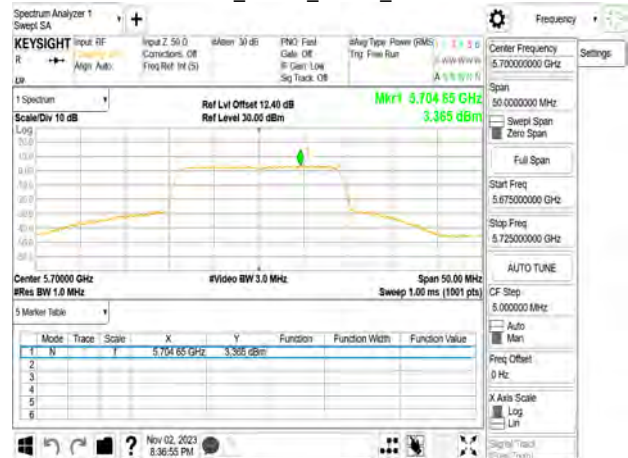
802.11n_20MHz_Chain0_5580MHz



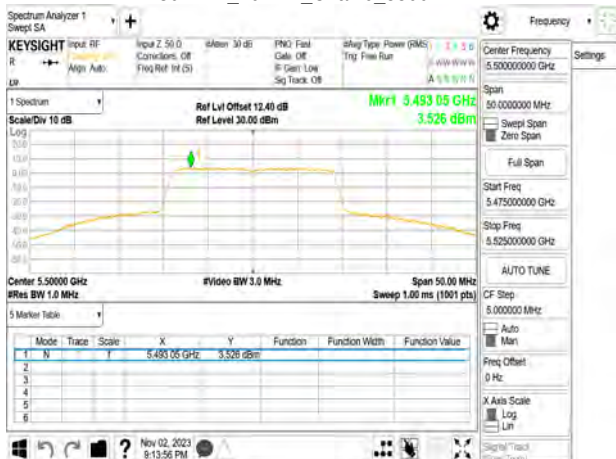
802.11n_20MHz_Chain0_5320MHz



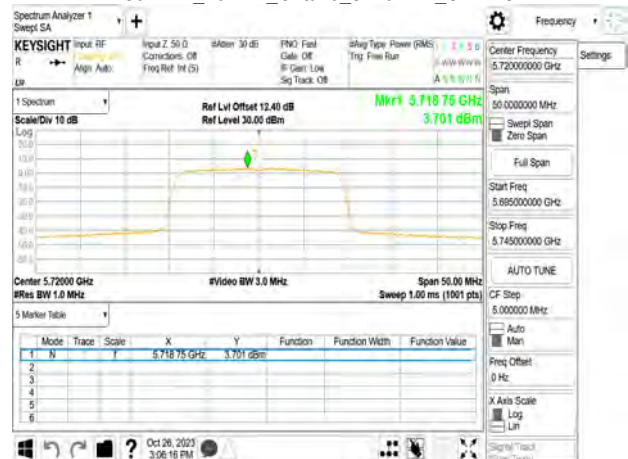
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



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802.11n_20MHz_Chain0_5720MHz_UNII 3



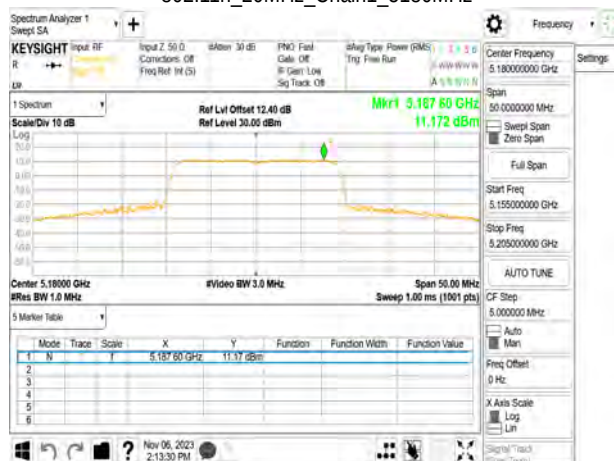
802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



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