

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

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

Manufacturer: HTC Corporation
No.23, Xinghua Road, Taoyuan Dist., Taoyuan City 330, Taiwan

Product Name: VIVE Headset

Brand Name: VIVE

Model No.: 2QDJ100

Report Number: TERF2411003819E2

FCC ID NM82QDJ100

IC: 4115A-2QDJ100

Date of EUT Received: Nov. 29, 2024

Date of Test: Dec. 11, 2024 ~ Jan. 17, 2025

Issue Date: Feb. 07, 2025

Approved By**Arno Hsieh****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, ISSED RSS-247.

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
TERF2411003819E2	00	Original.	Feb. 07, 2025	Yami Kuo	

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:	VIVE Headset
Brand Name:	VIVE
Model No.:	2QDJ100
Hardware Version:	XC
Firmware Version:	WLAN.HMT.1.1.c4-00258-QCAHMTSWPL_V1.0_V2.0_SILICONZ-1
EUT Series No.:	123456789012
Power Supply:	3.89 Vdc from Rechargeable Lithium-ion Battery or 5 / 9 / 12 Vdc from AC/DC Adapter with 100~240V AC input
Test Software (Name/Version)	QRCT V4.0

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
Transition Rate:	for OFDMA in 802.11ax
	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 72.2 Mbps
	802.11 n_HT40: up to 150 Mbps
	802.11 ac_VHT20: up to 86.7 Mbps
	802.11 ac_VHT40: up to 200 Mbps
	802.11 ac_VHT80: up to 433.3 Mbps
	802.11 ac_VHT160: up to 866.7 Mbps
	802.11 ax_HE20: up to 143.4 Mbps
	802.11 ax_HE40: up to 286.8 Mbps
	802.11 ax_HE80: up to 600.5 Mbps
	802.11 ax_HE160: up to 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	AWAN	ALF00-000030	5150~5250	0
			5250~5350	0
			5470~5725	0
			5725~5850	0
			5850~5895	0

Note: Antenna information is provided by the applicant.

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1.4 FCC

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	Avg	11.84 dBm	OFDMA
	5260~5320	4	Avg	11.91 dBm	OFDMA
	5500~5720	12	Avg	11.85 dBm	OFDM
	5745~5825	5	Avg	11.88 dBm	OFDM
	5845~5885	3	EIRP	11.87 dBm	OFDMA
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	Avg	11.80 dBm	OFDM
	5270~5310	2	Avg	11.89 dBm	OFDMA
	5510~5710	6	Avg	11.86 dBm	OFDMA
	5755~5795	2	Avg	11.89 dBm	OFDM
	5835~5875	2	EIRP	11.83 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	Avg	11.82 dBm	OFDMA
	5290	1	Avg	11.86 dBm	OFDMA
	5530~5690	3	Avg	11.81 dBm	OFDMA
	5775	1	Avg	11.87 dBm	OFDMA
	5855	1	EIRP	9.29 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160	5250	1	Avg	11.97 dBm	OFDM
	5570	1	Avg	11.87 dBm	OFDM
	5815	1	EIRP	6.23 dBm	OFDMA

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WLAN 5 GHz for ISED (Slave)

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	EIRP	11.84 dBm	OFDMA
	5260~5320	4	Avg	11.91 dBm	OFDMA
	5500~5700	11	Avg	11.85 dBm	OFDM
	5720 (U-NII 2C)	1	Avg	10.52 dBm	OFDM
	5720 (U-NII 3)	1	Avg	6.32 dBm	OFDM
	5745~5825	5	Avg	11.88 dBm	OFDM
	5845 (U-NII 3)	1	Avg	10.90 dBm	OFDM
	5845 (U-NII 4)	1	EIRP	5.55 dBm	OFDMA
	5865~5885	2	EIRP	11.87 dBm	OFDMA
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	EIRP	11.80 dBm	OFDM
	5270~5310	2	Avg	11.89 dBm	OFDMA
	5510~5670	5	Avg	11.86 dBm	OFDMA
	5710 (U-NII 2C)	1	Avg	11.22 dBm	OFDMA
	5710 (U-NII 3)	1	Avg	3.87 dBm	OFDM
	5755~5795	2	Avg	11.89 dBm	OFDM
	5835 (U-NII 3)	1	Avg	11.50 dBm	OFDM
	5835 (U-NII 4)	1	EIRP	2.00 dBm	OFDMA
	5875	1	EIRP	11.83 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	EIRP	11.82 dBm	OFDMA
	5290	1	Avg	11.86 dBm	OFDMA
	5530~5610	2	Avg	11.81 dBm	OFDMA
	5690 (U-NII 2C)	1	Avg	11.34 dBm	OFDMA
	5690 (U-NII 3)	1	Avg	2.48 dBm	OFDM
	5775	1	Avg	11.87 dBm	OFDMA
	5855 (U-NII 3)	1	Avg	8.17 dBm	OFDMA
	5855 (U-NII 4)	1	EIRP	9.29 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160	5250	1	Avg	11.97 dBm	OFDM
	5570	1	Avg	11.87 dBm	OFDM
	5815 (U-NII 3)	1	Avg	10.41 dBm	OFDMA
	5815 (U-NII 4)	1	EIRP	6.23 dBm	OFDMA

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 291074 D02 EMC Measurement v01

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

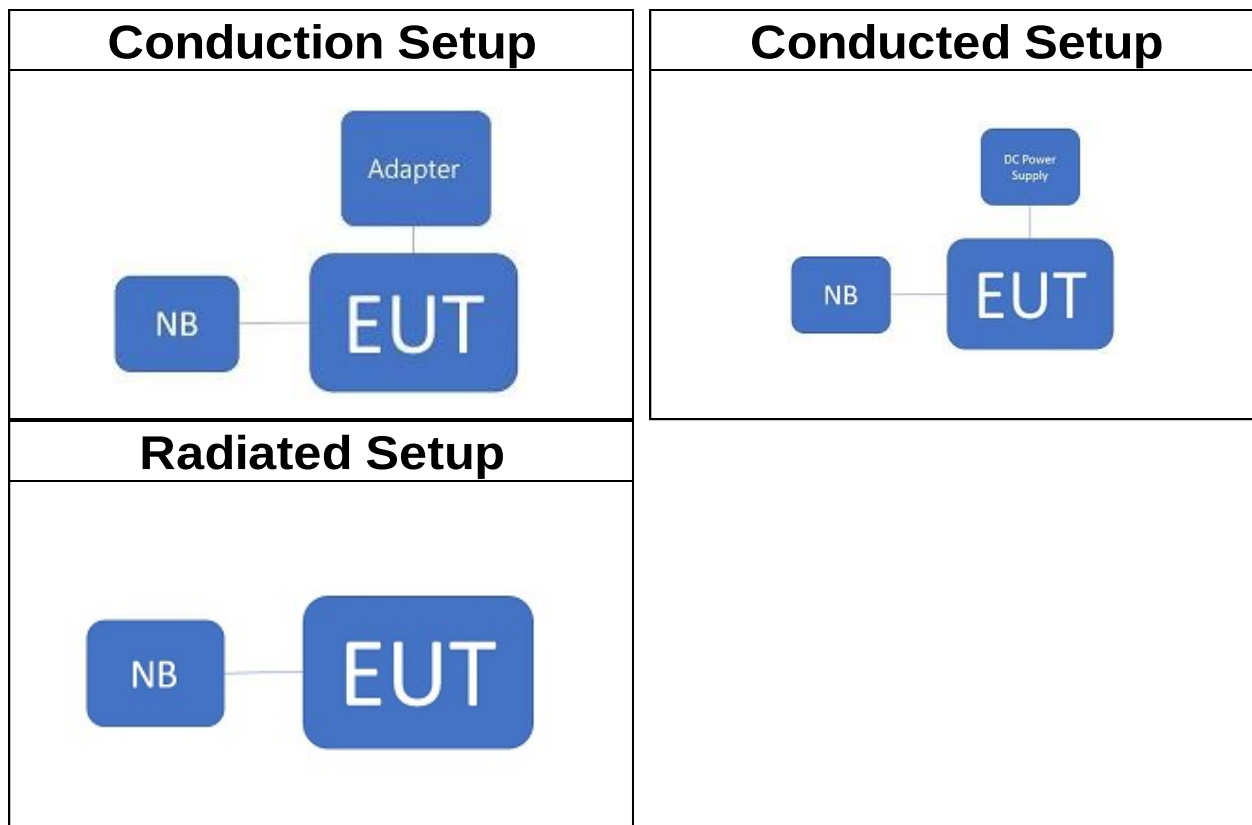
2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Adapter	PHILIPS	DLP4326C	SLPA 2116	N/A	N/A
Test Cable	HTC	73H00809-00P	N/A	N/A	N/A
Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Cable	HTC	73H00809-00P	N/A	N/A	N/A
Notebook	Lenovo	T14	P0003332	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T470	P0001293	N/A	N/A
Test Cable	HTC	73H00809-00P	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~4 (1) RSS-247 §6.2.5 (2)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1) RSS-247 §6.2.5 (2)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-Gen 8.10 RSS-247 §6.2.1~3 (2) §6.2.4 (3) RSS-247 §6.2.5 (3)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

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

UNII-2A 5250 MHz ~ 5350MHz

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

160MHz	
CH	Freq. (MHz)
50	5250

UNII-2C 5470 MHz ~ 5725MHz

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

160MHz	
CH	Freq. (MHz)
114	5570

UNII-3 5725 MHz ~ 5850MHz

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

UNII-4 5850 MHz ~ 5925MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
169	5845	167	5835	171	5885	163	5815
173	5865	175	5875				
177	5885						

Note:

1. Operating in 5600~5650MHz is prohibited in Canada.

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

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	Ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	Ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	Ch0
	5570	114	114			
	5815	163	163			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	Ch0
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	Ch0
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
	5835~5875	167 to 175	167,175				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	Ch0
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
	5855	171	171				
802.11ax_HE160	5250	50	50	OFDMA	FULL RU 996/67,996/67	MCS0	Ch0
	5570	114	114				
	5815	163	163				

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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	ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			
	5845~5885	169 to 177	173			
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	ch0
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	ch0
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	ch0
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	ch0
	5570	114	114			
	5815	163	163			

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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
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	ch0
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
	5845~5885	169 to 177	169,173,177				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	ch0
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5835~5875	167 to 175	167,175	OFDMA	FULL RU 484/65,484/66	MCS0	ch0
	5210	42	42				
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5855	171	171	OFDMA	FULL RU 996/67,996/67	MCS0	ch0
	5250	50	50				
	5570	114	114				
	5815	163	163				

Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Output Power measurement	+/- 0.97 dB
Emission Bandwidth	+/- 1.38 Hz
Conducted emission measurement	+/- 0.77 dB
Peak Power Density	+/- 0.61 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF18	11/14/2024	11/13/2025
Attenuator	Woken	WATT-218FS-10	RF19	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF36	11/14/2024	11/13/2025
DC Power Supply	Agilent	E3640A	MY53170008	08/29/2024	08/28/2025
Power Meter	Anritsu	ML2496A	1512003	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339378	09/04/2024	09/03/2025
Power Sensor	Anritsu	MA2411B	1339379	09/04/2024	09/03/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	05/24/2024	05/23/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2024	03/29/2025
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/17/2024	01/16/2025
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/14/2024	11/13/2025
High Pass Filter	WI	WHKX10-2624-3200-18000-80SS	RF176	11/14/2024	11/13/2025
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/12/2024	04/11/2025
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
Lowpass Filter	Woken	EWT-56-0019	RF163	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC184945SEE	980938	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	05/08/2024	05/07/2025
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/13/2024	03/12/2025
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/28/2024	06/27/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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Member of SGS Group

7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

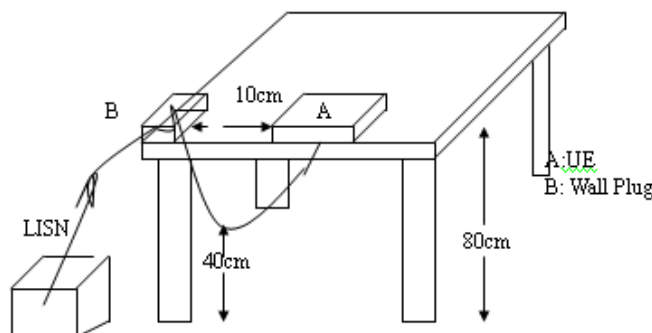
Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

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.

7.5 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2411003819E2

Test Site :Conduction C

Test Mode :5G

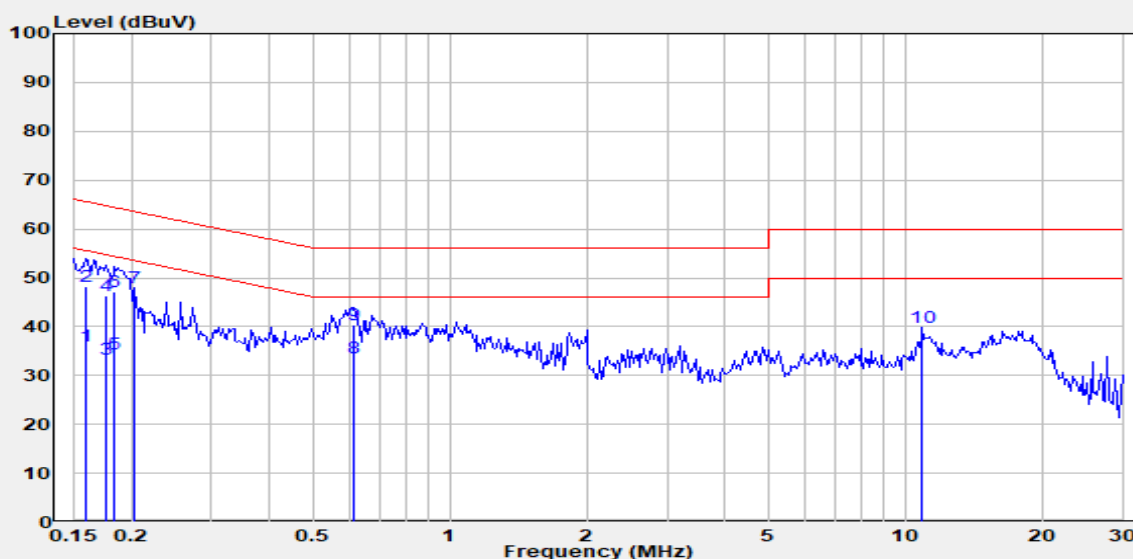
Test Date :2024-12-25

Power :120V/60Hz

Temp./Humi :21.0°C/69%

Probe :L1

Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.159	Average	25.30	10.65	35.95	55.51	-19.56
0.159	QP	37.70	10.65	48.35	65.51	-17.16
0.176	Average	22.60	10.65	33.25	54.66	-21.41
0.176	QP	35.70	10.65	46.35	64.66	-18.31
0.184	Average	23.80	10.65	34.45	54.31	-19.86
0.184	QP	36.40	10.65	47.05	64.31	-17.26
0.202	Peak	37.41	10.65	48.06	63.53	-15.48
0.614	Average	22.90	10.64	33.54	46.00	-12.46
0.614	QP	29.70	10.64	40.34	56.00	-15.66
10.922	Peak	28.86	10.99	39.85	60.00	-20.15

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Report Number :TERF2411003819E2

Test Site :Conduction C

Test Mode :5G

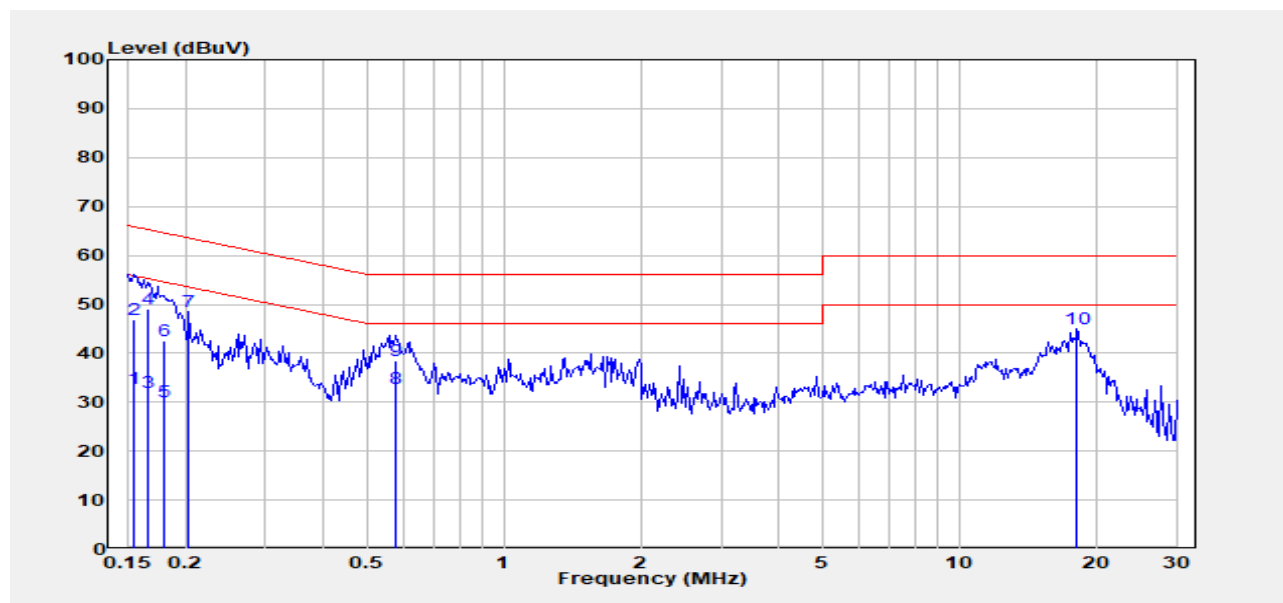
Test Date :2024-12-25

Power :120V/60Hz

Temp./Humi :21.0°C/69%

Probe :N

Engineer :Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.154	Average	22.20	10.66	32.86	55.79	-22.93
0.154	QP	36.10	10.66	46.76	65.79	-19.03
0.166	Average	21.40	10.66	32.06	55.15	-23.10
0.166	QP	38.50	10.66	49.16	65.15	-16.00
0.179	Average	19.50	10.65	30.15	54.52	-24.37
0.179	QP	32.00	10.65	42.65	64.52	-21.87
0.204	Peak	37.82	10.65	48.47	63.46	-15.00
0.579	Average	22.30	10.62	32.92	46.00	-13.08
0.579	QP	27.90	10.62	38.52	56.00	-17.48
18.178	Peak	33.96	11.13	45.09	60.00	-14.91

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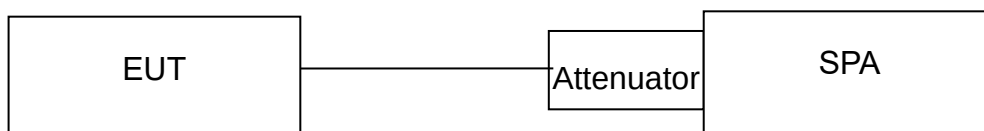
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz & 5.850~5.895GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.24	13.470
5220	22.37	13.500
5240	22.78	13.580
5260	22.57	13.540
5300	22.99	13.620
5320	22.43	13.510
5500	22.86	13.590
5580	22.51	13.520
5700	22.47	13.520
5720(U-NII 2C)	16.02	12.050
5720(U-NII 3)	6.02	7.790

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.34	12.130
5785	16.36	12.140
5825	16.34	12.130
5845(U-NII 3)	13.20	11.210
5845(U-NII 4)	3.20	5.060
5865	16.39	12.150
5885	16.32	12.130

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.432050	< 5250
5745	5736.621826	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.01	13.620
5220	22.53	13.530
5240	22.15	13.450
5260	22.73	13.570
5300	22.76	13.570
5320	22.95	13.610
5500	22.84	13.590
5580	23.01	13.620
5700	23.01	13.620
5720(U-NII 2C)	16.48	12.170
5720(U-NII 3)	6.48	8.110

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.60	12.460
5785	17.83	12.510
5825	17.61	12.460
5845(U-NII 3)	13.81	11.400
5845(U-NII 4)	3.81	5.800
5865	17.60	12.460
5885	17.60	12.460

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.953915	< 5250
5745	5736.068523	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	44.76	16.510
5230	44.61	16.490
5270	44.05	16.440
5310	44.63	16.500
5510	44.26	16.460
5550	44.11	16.450
5670	44.25	16.460
5710(U-NII 2C)	36.83	15.660
5710(U-NII 3)	6.83	8.340

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.40	15.610
5795	36.42	15.610
5835(U-NII 3)	33.30	15.220
5835(U-NII 4)	3.30	5.180
5875	36.59	15.630

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.285431	< 5250
5755	5736.824535	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	90.75	19.580
5290	88.90	19.490
5530	92.89	19.680
5610	89.16	19.500
5690(U-NII 2C)	80.69	19.070
5690(U-NII 3)	10.69	10.290

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.42	18.830
5855(U-NII 3)	33.19	15.210
5855(U-NII 4)	43.19	16.350

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.182737	< 5250
5775	5737.046534	> 5725

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	175.9	22.450
5570	174.4	22.410

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.14	13.450
5220	full	22.85	13.590
5240	full	22.50	13.520
5260	full	22.99	13.620
5300	full	22.54	13.530
5320	full	22.45	13.510
5500	full	22.46	13.510
5580	full	22.50	13.520
5700	full	21.84	13.390
5720 (U-NII 2C)	full	16.04	12.050
5720 (U-NII 3)	full	6.04	7.810

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.84	12.750
5785	full	19.08	12.810
5825	full	19.10	12.810
5845 (U-NII 3)	full	14.51	11.620
5845 (U-NII 4)	full	4.51	6.540
5865	full	18.88	12.760
5885	full	19.03	12.790

802.11ax_HE20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.507781	< 5250
5745	5735.431933	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	43.79	16.410
5230	full	42.82	16.320
5270	full	42.55	16.290
5310	full	43.71	16.410
5510	full	42.73	16.310
5550	full	43.21	16.360
5670	full	43.29	16.360
5710 (U-NII 2C)	full	35.93	15.550
5710 (U-NII 3)	full	5.93	7.730

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.11	15.810
5795	full	38.16	15.820
5835 (U-NII 3)	full	34.05	15.320
5835 (U-NII 4)	full	4.05	6.070
5875	full	38.09	15.810

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.982035	< 5250
5755	5735.997300	> 5725

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802.11ax_HE80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	86.27	19.360
5290	full	87.21	19.410
5530	full	86.60	19.380
5610	full	85.80	19.330
5690 (U-NII 2C)	full	77.92	18.920
5690 (U-NII 3)	full	7.91	8.980

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.18	18.930
5855 (U-NII 3)	full	34.07	15.320
5855 (U-NII 4)	full	44.07	16.440

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.787957	< 5250
5775	5736.069244	> 5725

802.11ax_HE160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	171.8	22.350
5570	full	170.8	22.320

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802.11ax_HE160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	171.8	22.350
5570	full	170.8	22.320

802.11ax_HE160_Ch0

Freq. (MHz)		6dB BW (MHz)	10 Log (B) (dB)
5815 (U-NII 3)	full	113.2	20.540
5815 (U-NII 4)	full	43.2	16.350

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台灣檢驗科技股份有限公司

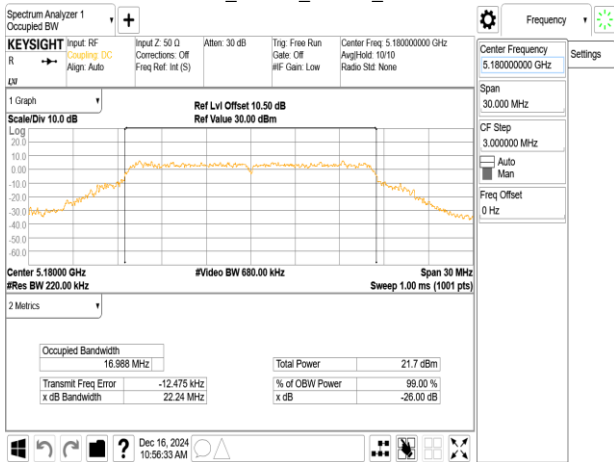
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f (886-2) 2298-0488

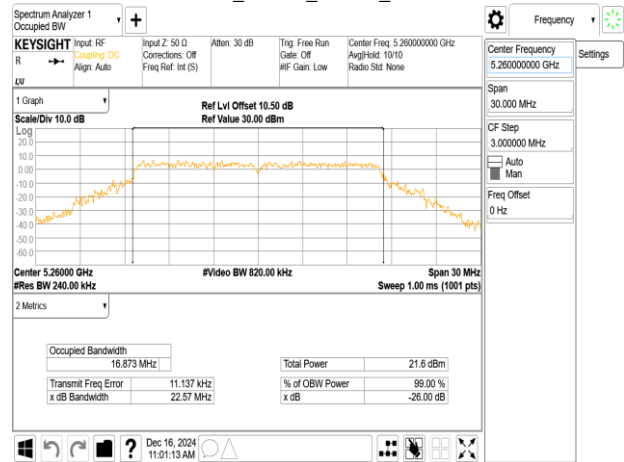
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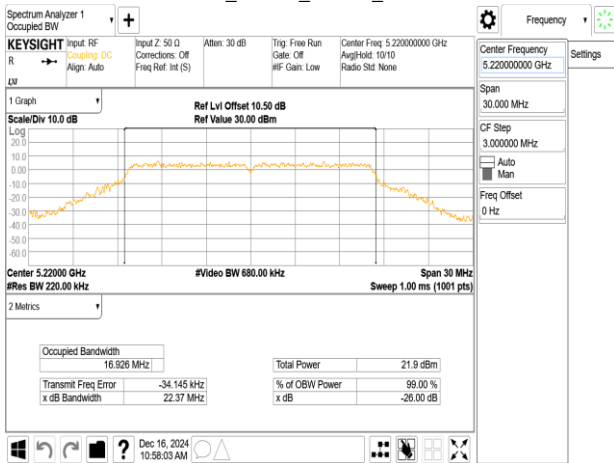
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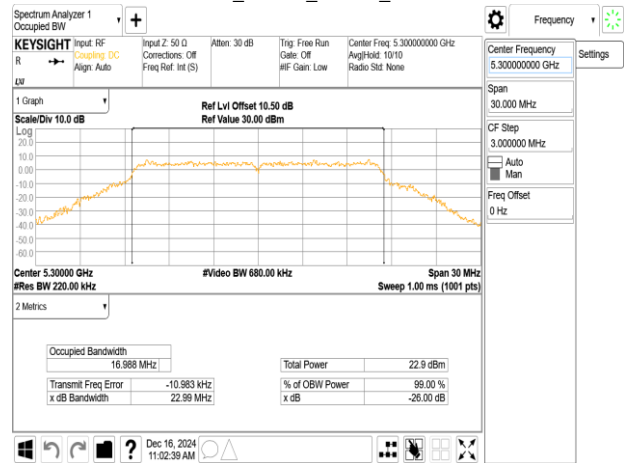
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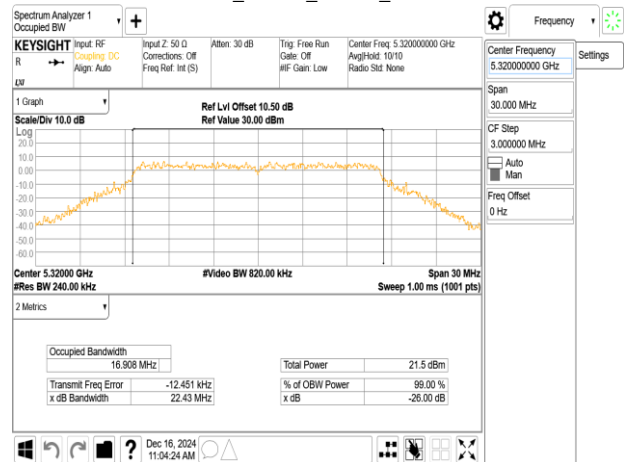
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802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

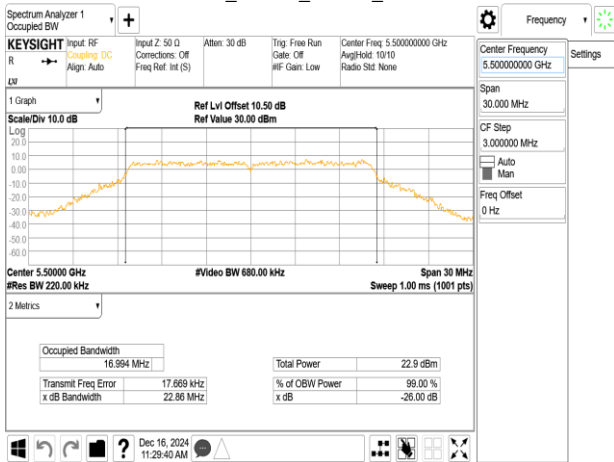


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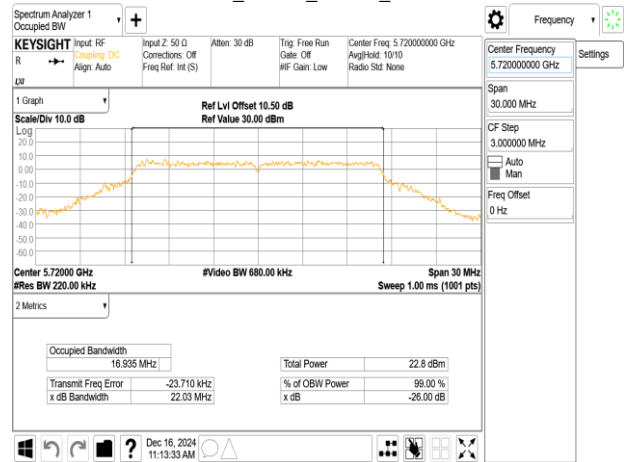
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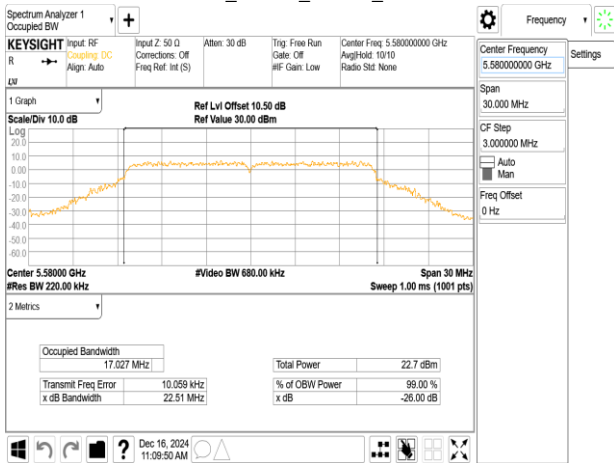
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802.11a_20MHz_Chain0_5720MHz



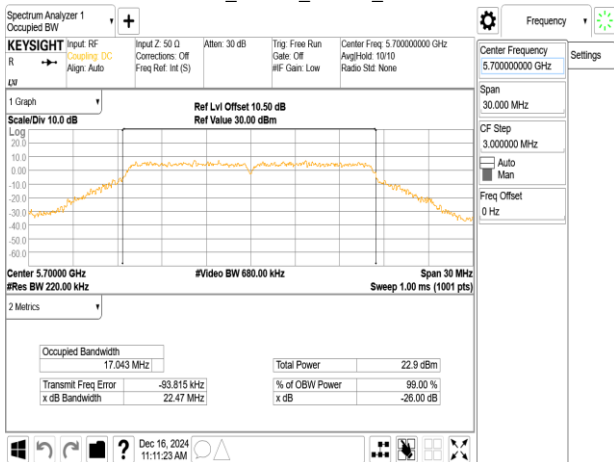
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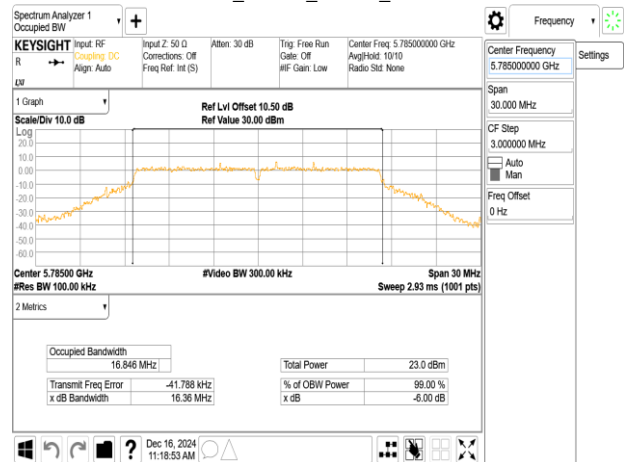
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802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

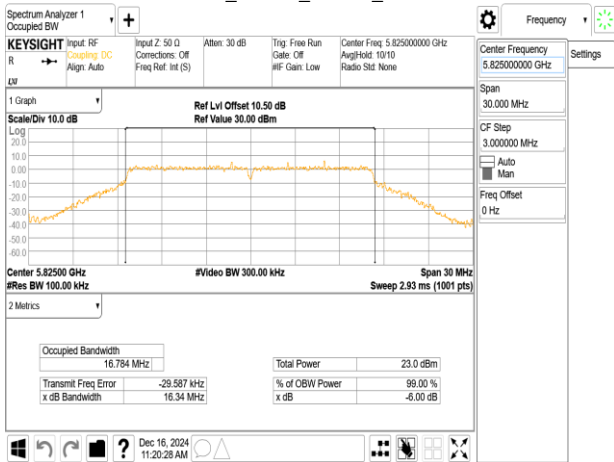


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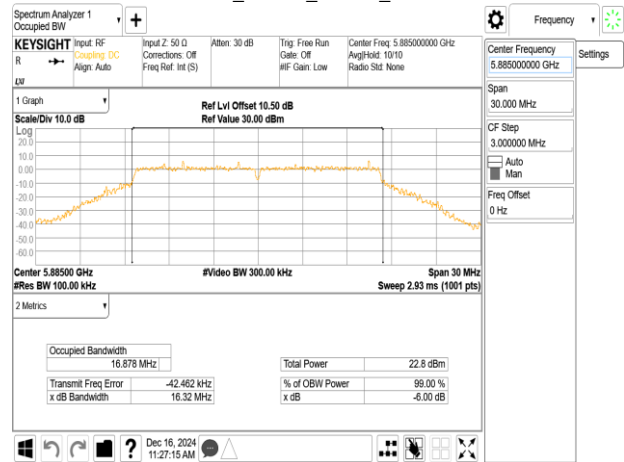
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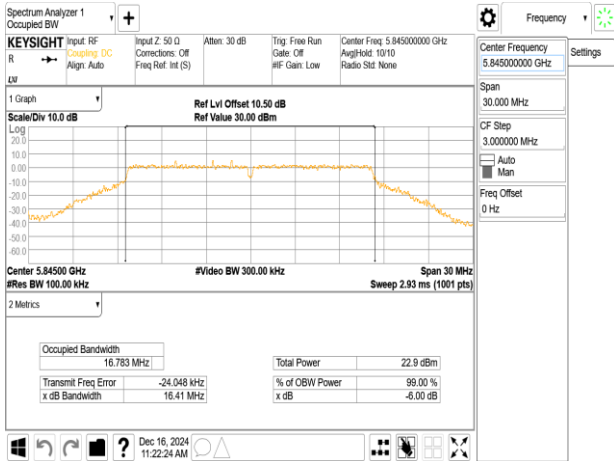
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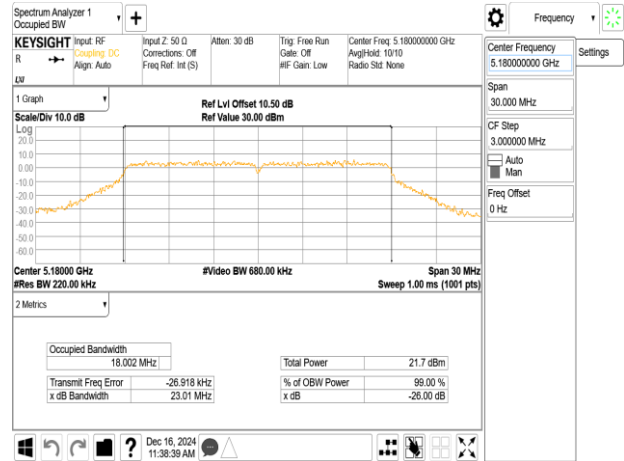
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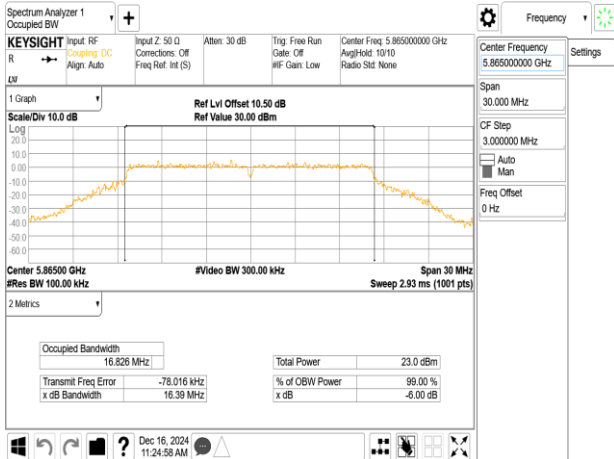
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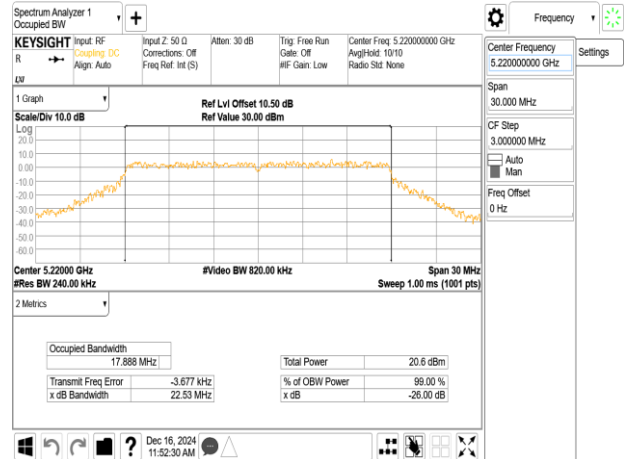
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802.11a_20MHz_Chain0_5865MHz



802.11n_20MHz_Chain0_5220MHz

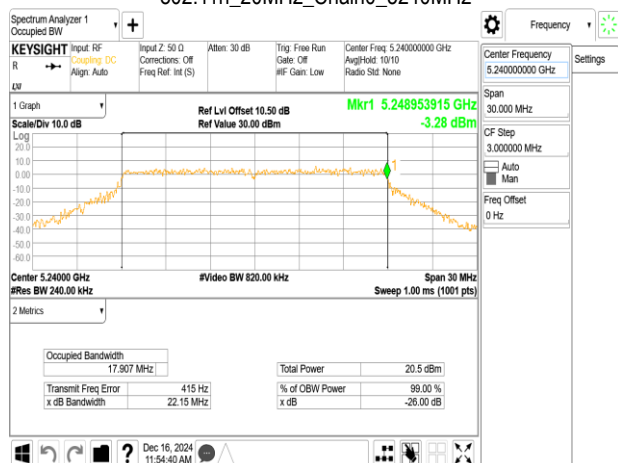


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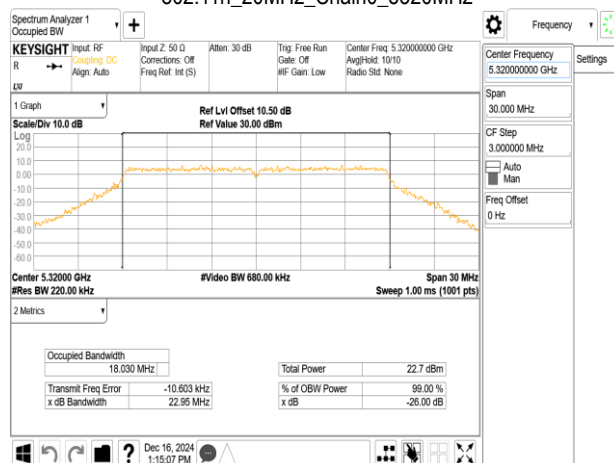
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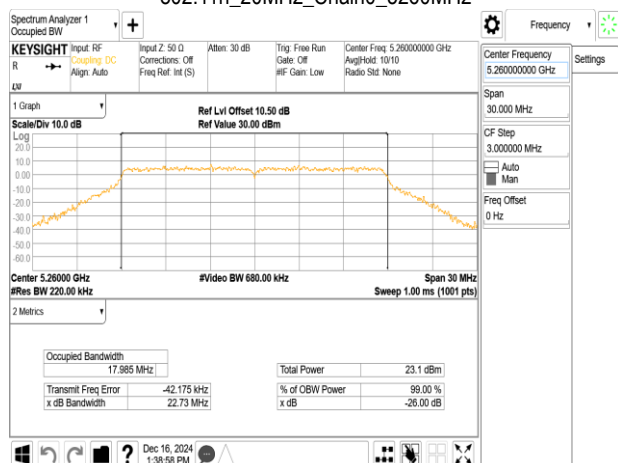
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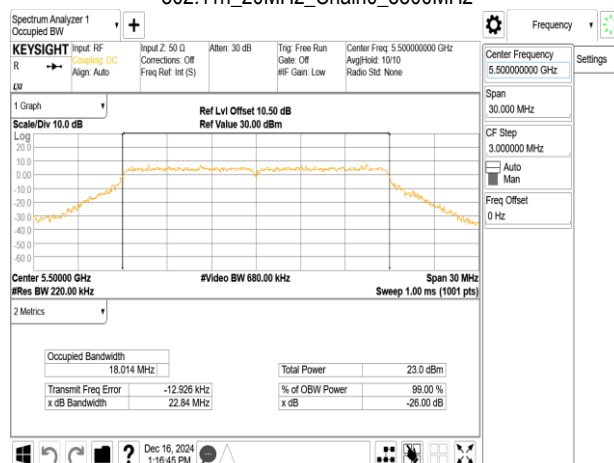
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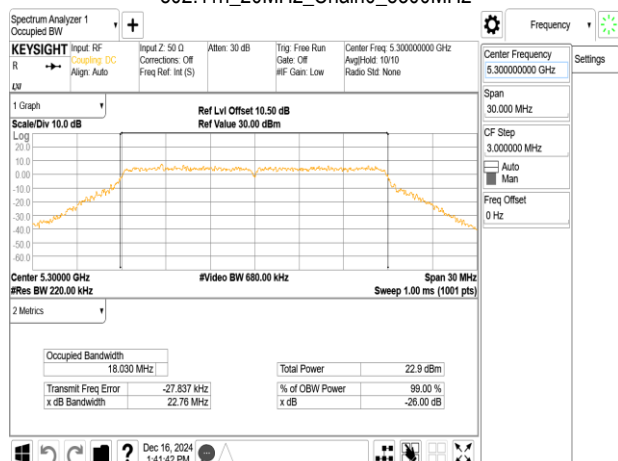
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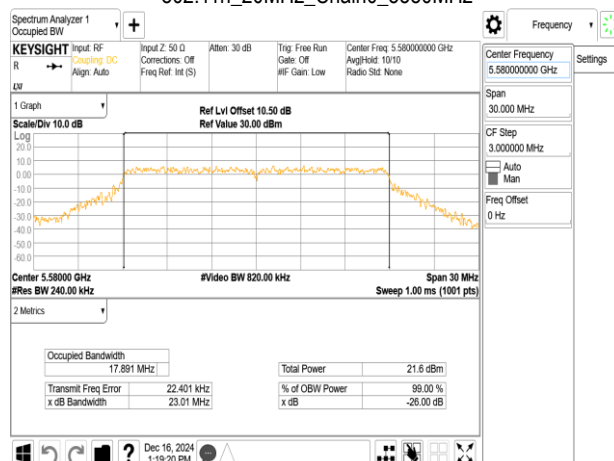
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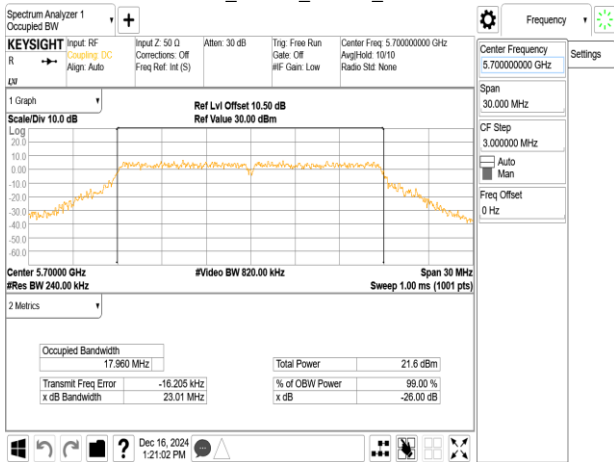


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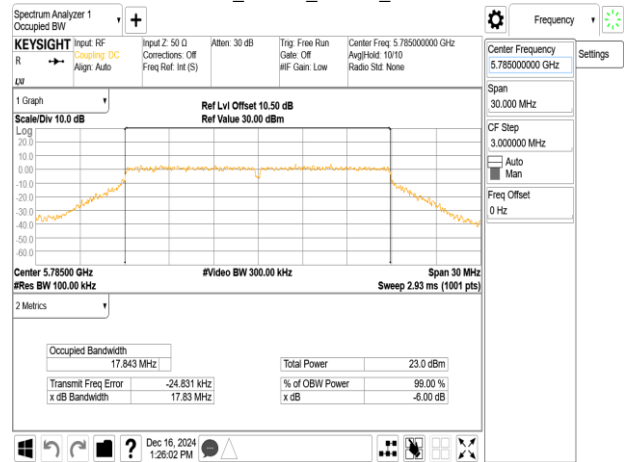
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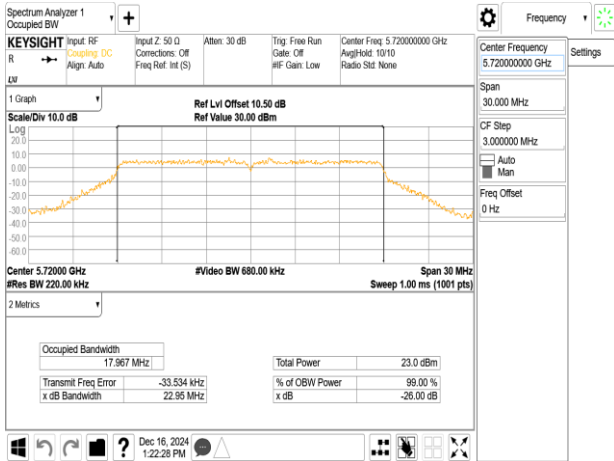
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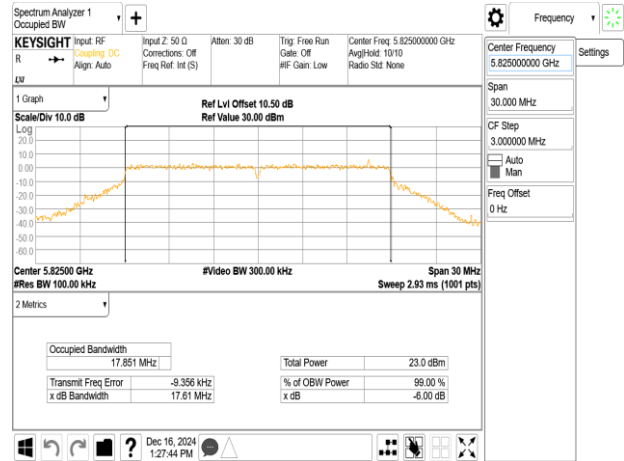
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802.11n_20MHz_Chain0_5720MHz



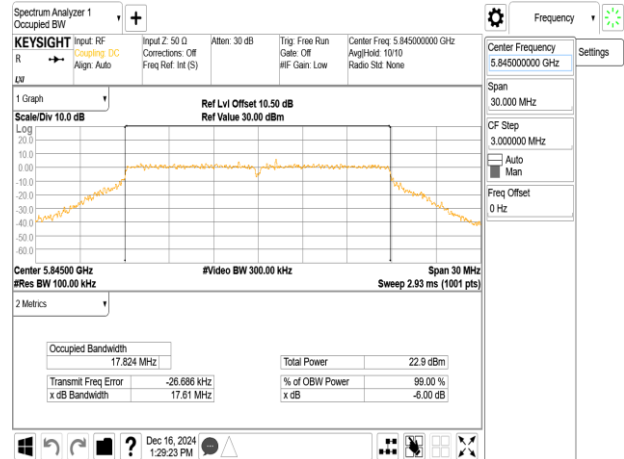
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802.11n_20MHz_Chain0_5745MHz



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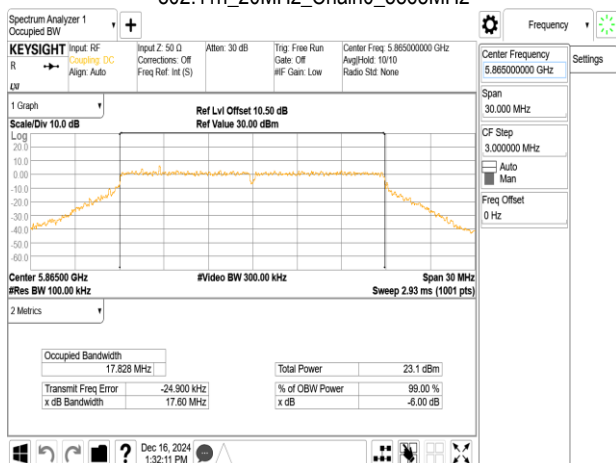


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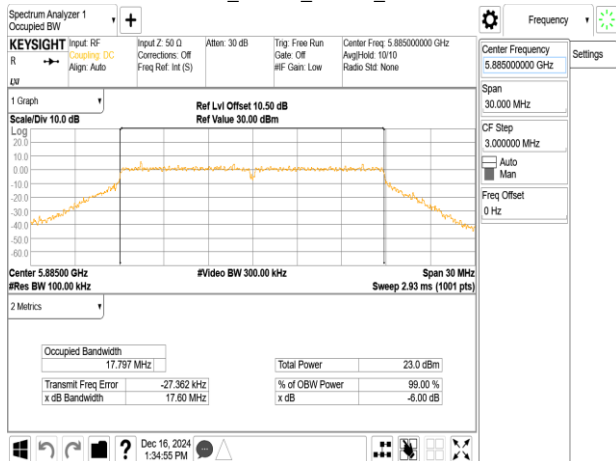
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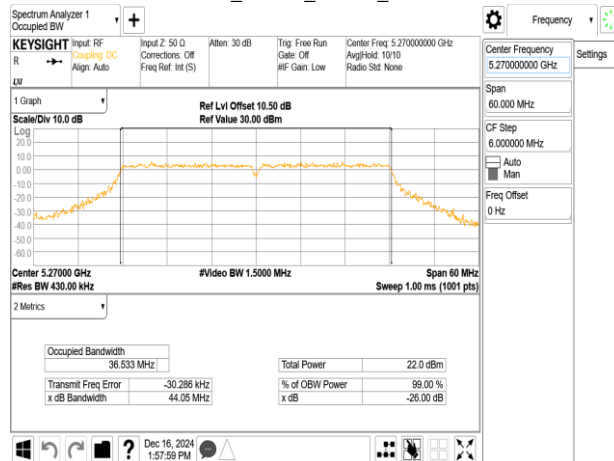
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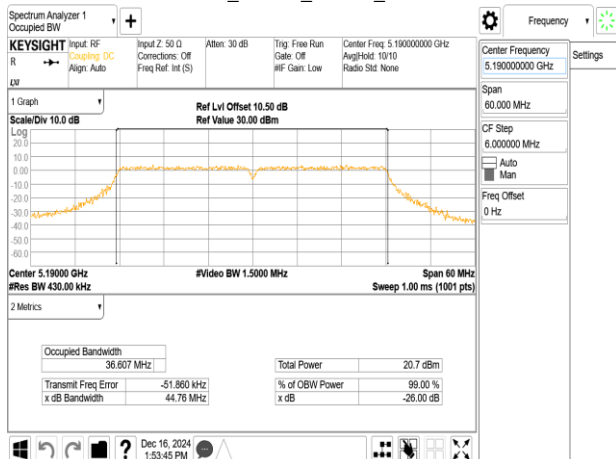
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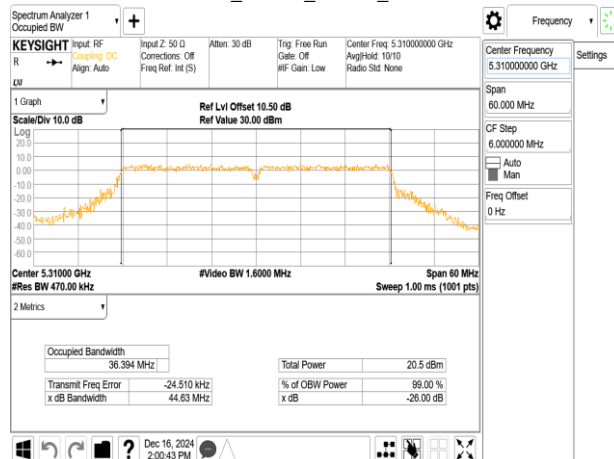
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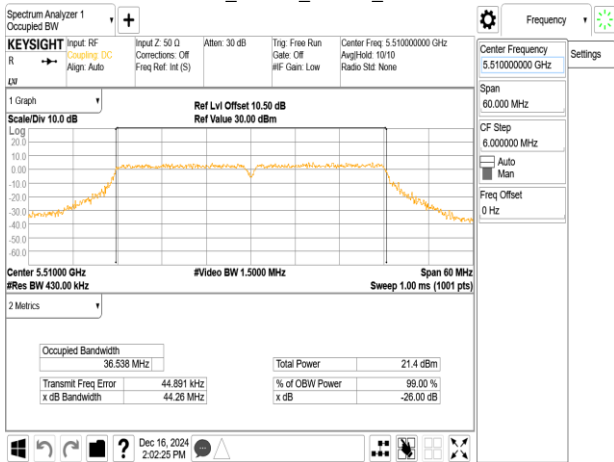


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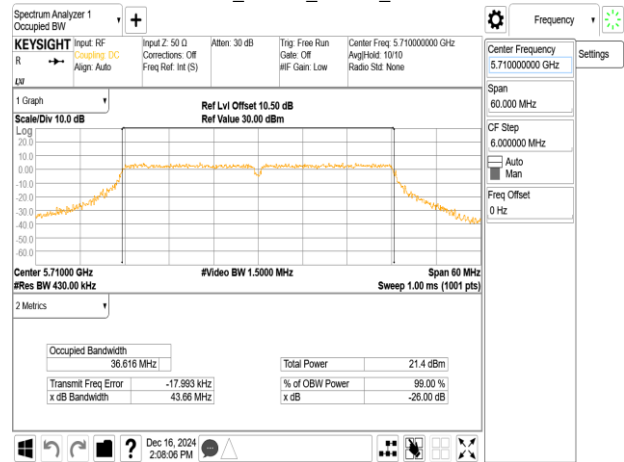
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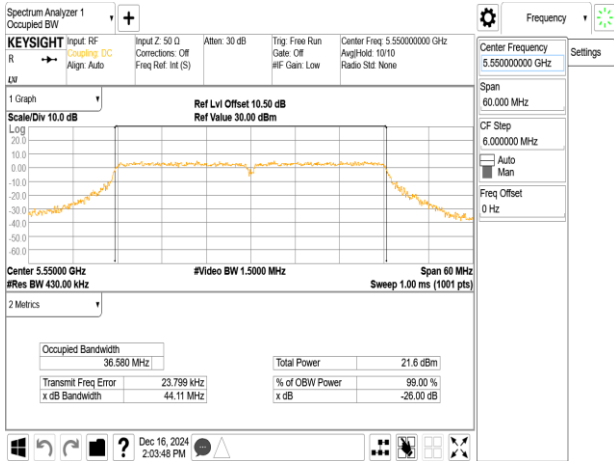
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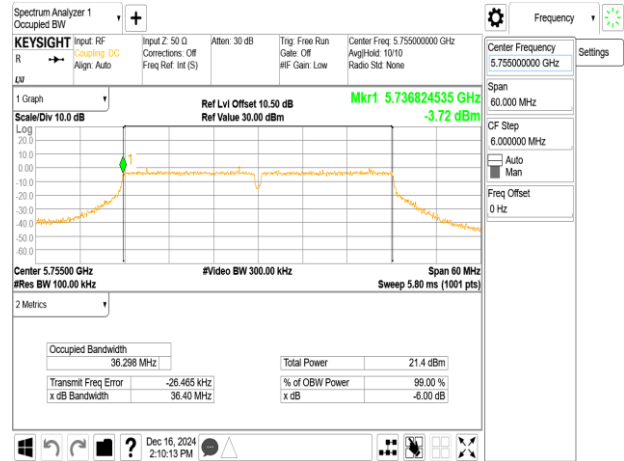
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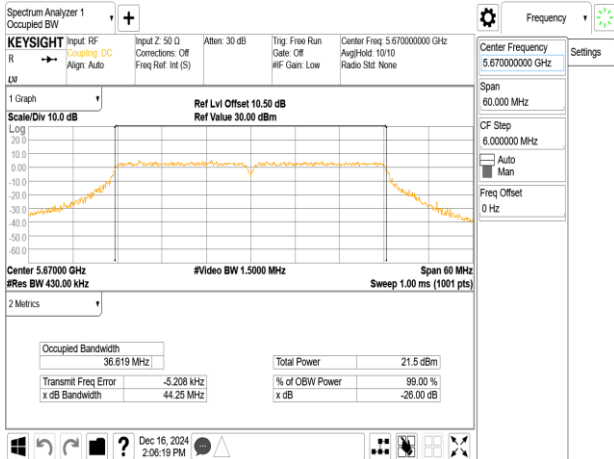
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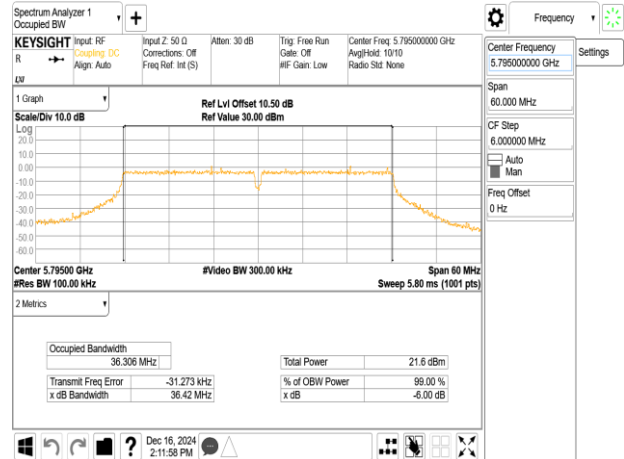
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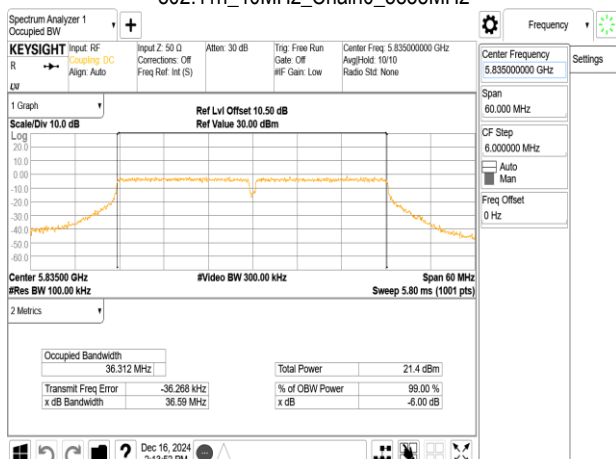


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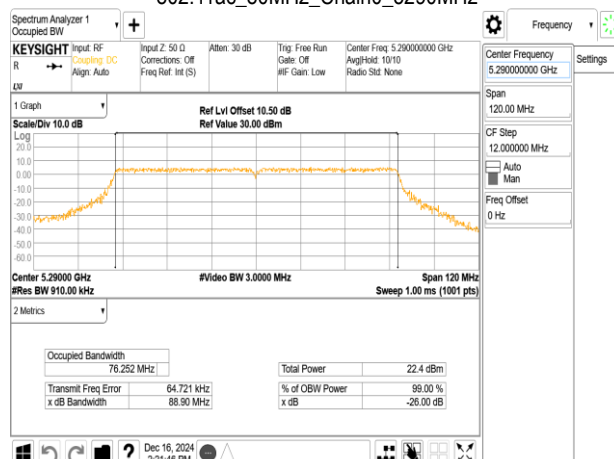
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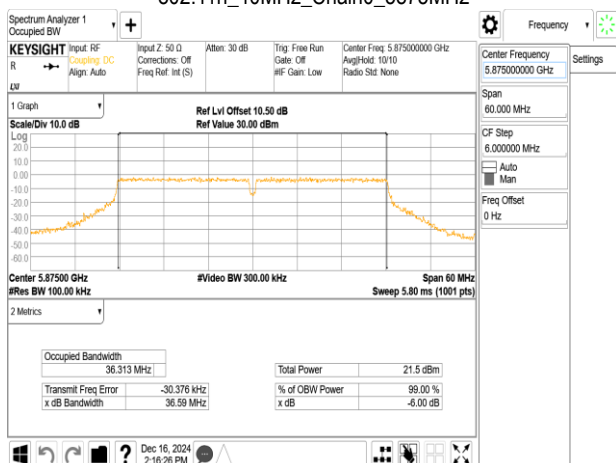
802.11n_40MHz_Chain0_5835MHz



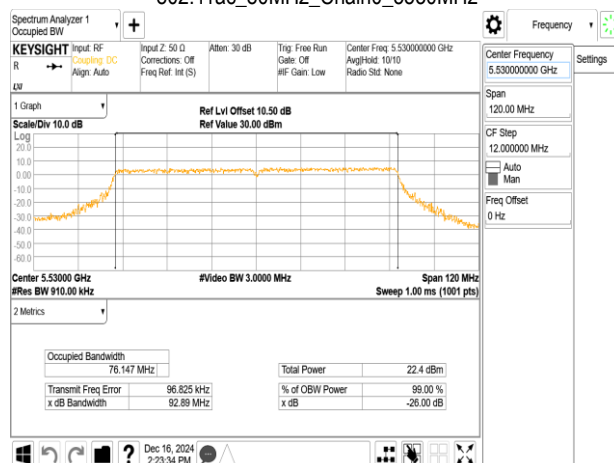
802.11ac_80MHz_Chain0_5290MHz



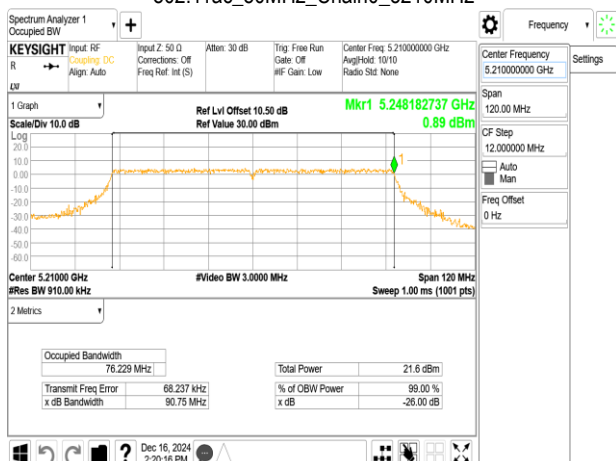
802.11n_40MHz_Chain0_5875MHz



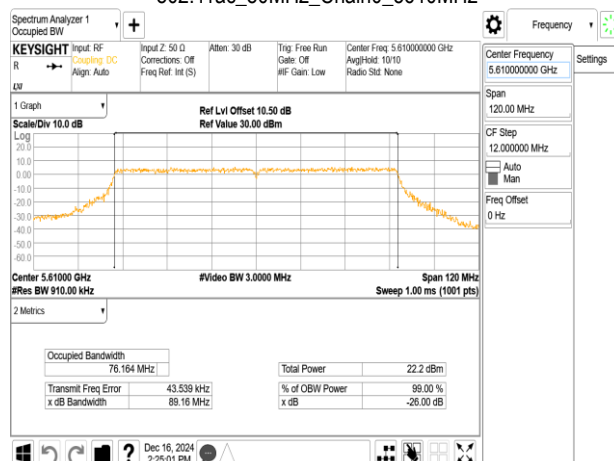
802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz

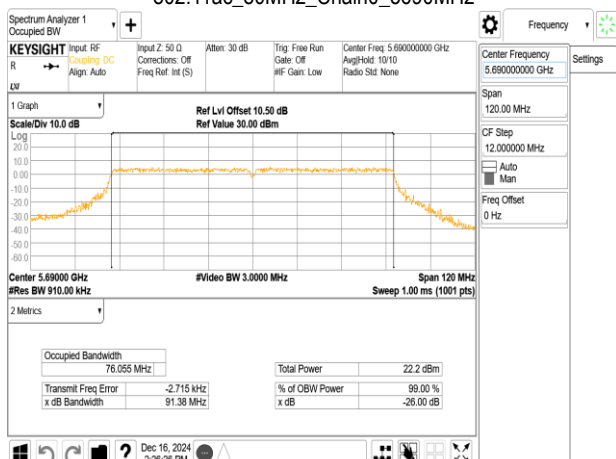


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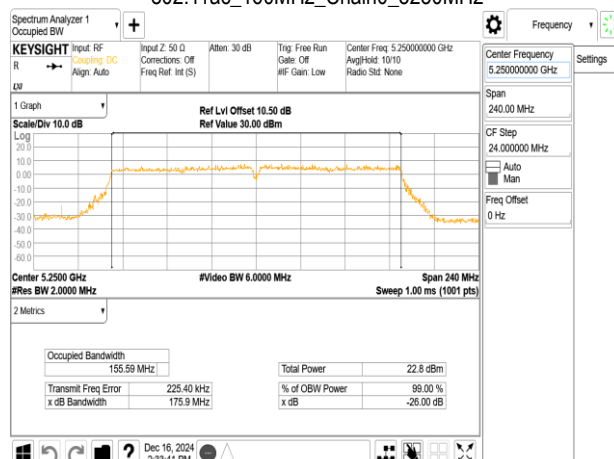
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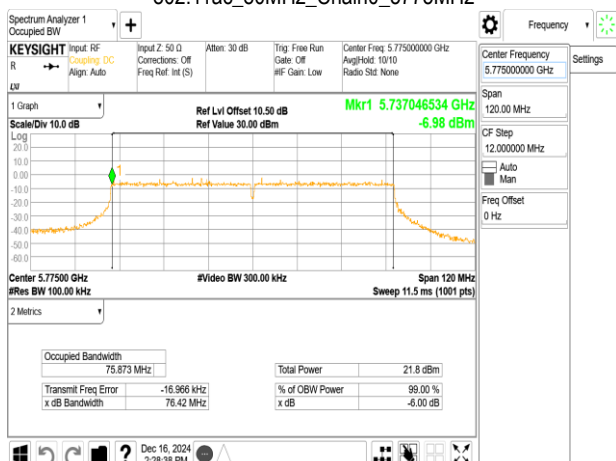
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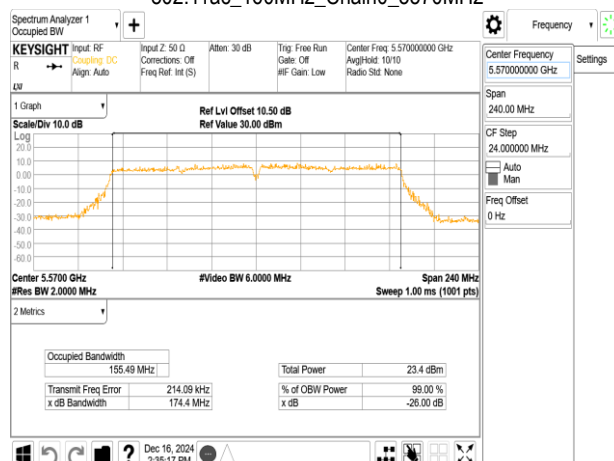
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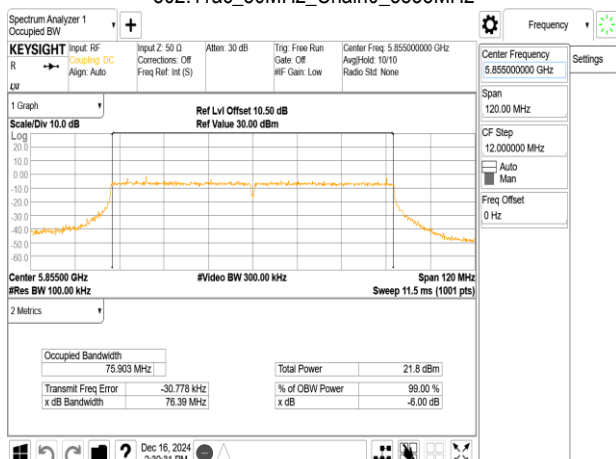
802.11ac_80MHz_Chain0_5775MHz



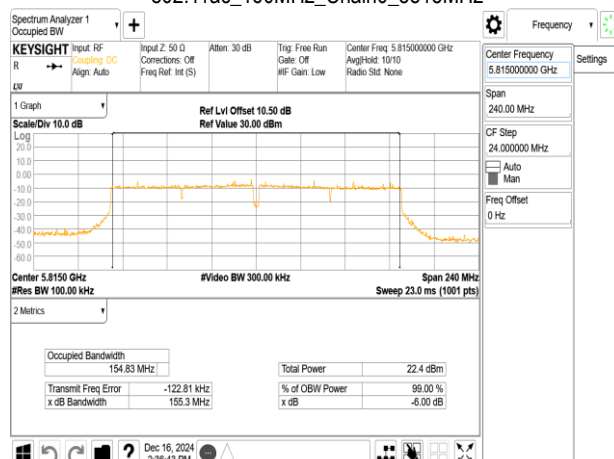
802.11ac_160MHz_Chain0_5570MHz



802.11ac_80MHz_Chain0_5855MHz



802.11ac_160MHz_Chain0_5815MHz

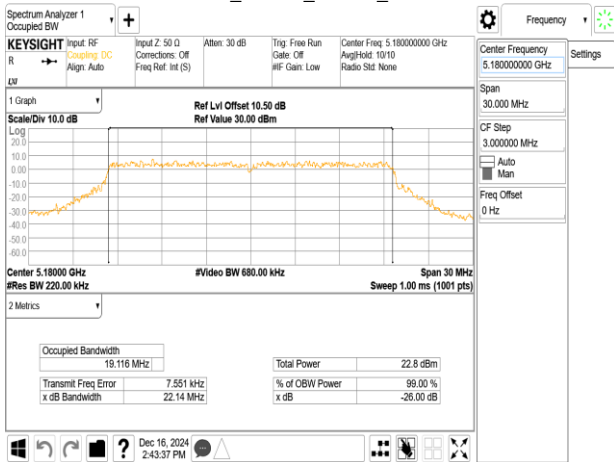


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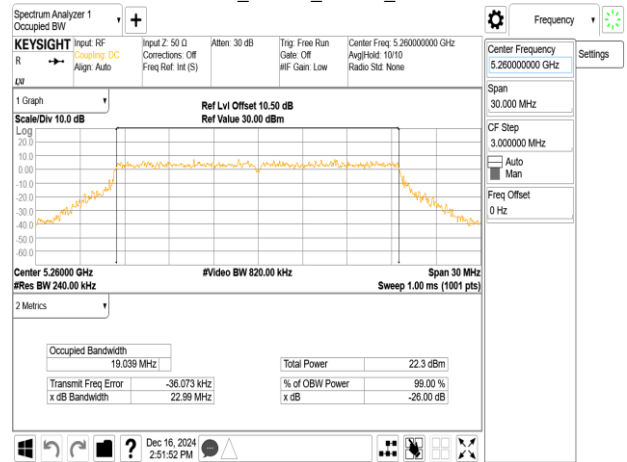
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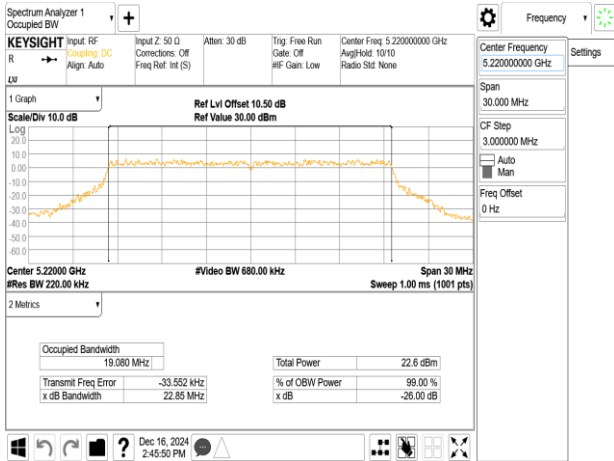
802.11ax_20MHz_Chain0_5180MHz



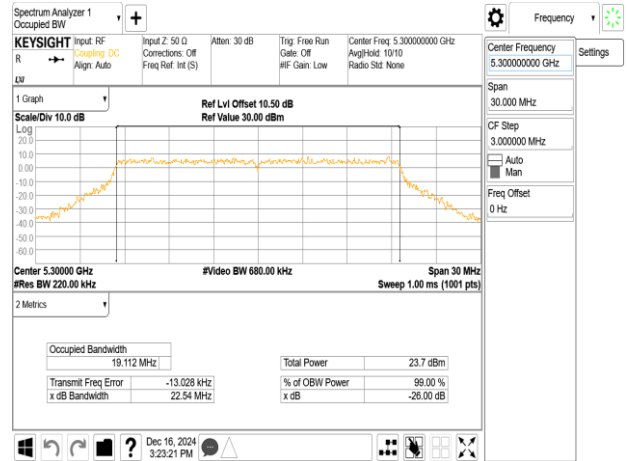
802.11ax_20MHz_Chain0_5260MHz



802.11ax_20MHz_Chain0_5220MHz



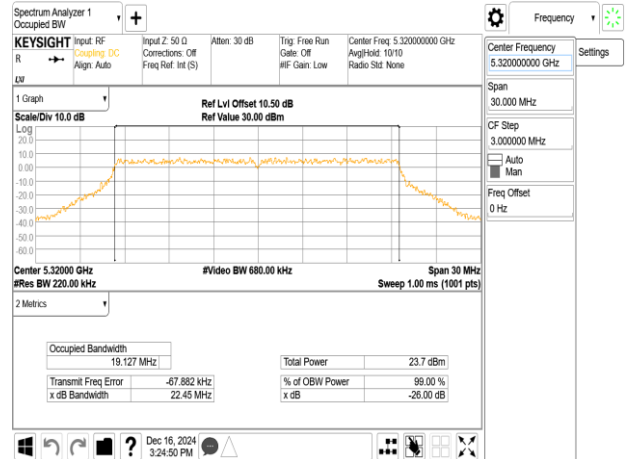
802.11ax_20MHz_Chain0_5300MHz



802.11ax_20MHz_Chain0_5240MHz



802.11ax_20MHz_Chain0_5320MHz

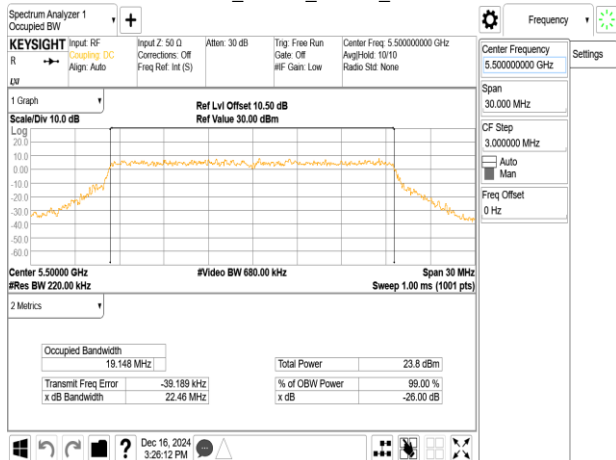


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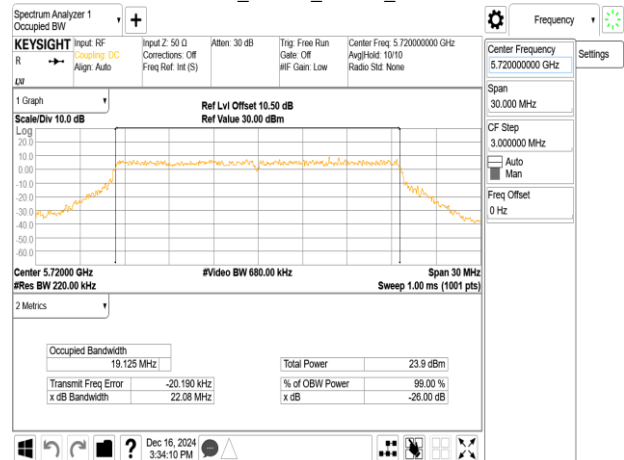
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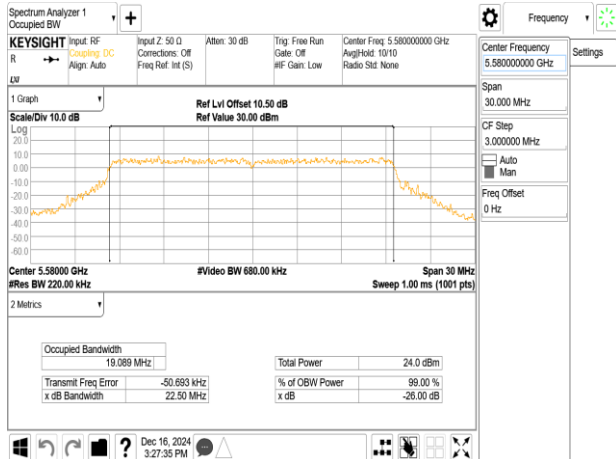
802.11ax_20MHz_Chain0_5500MHz



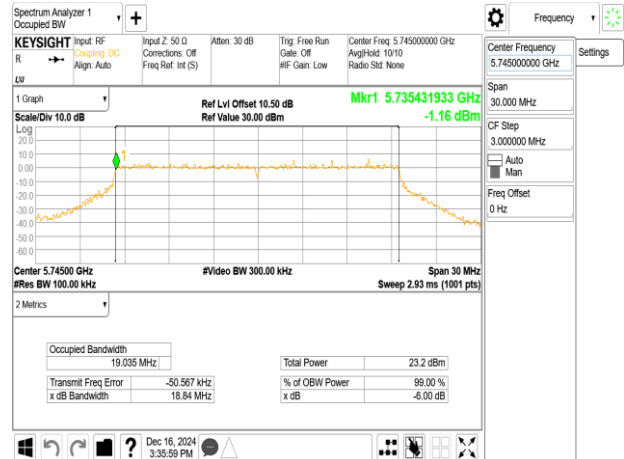
802.11ax_20MHz_Chain0_5720MHz



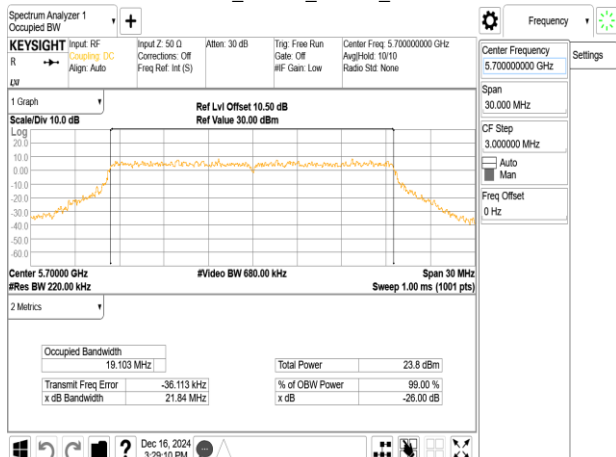
802.11ax_20MHz_Chain0_5580MHz



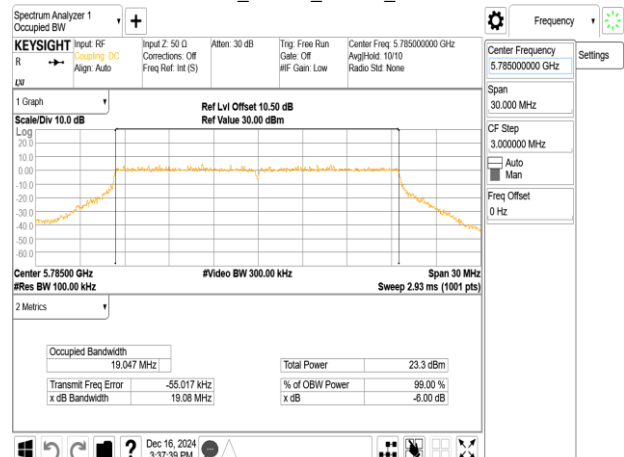
802.11ax_20MHz_Chain0_5745MHz



802.11ax_20MHz_Chain0_5700MHz



802.11ax_20MHz_Chain0_5785MHz

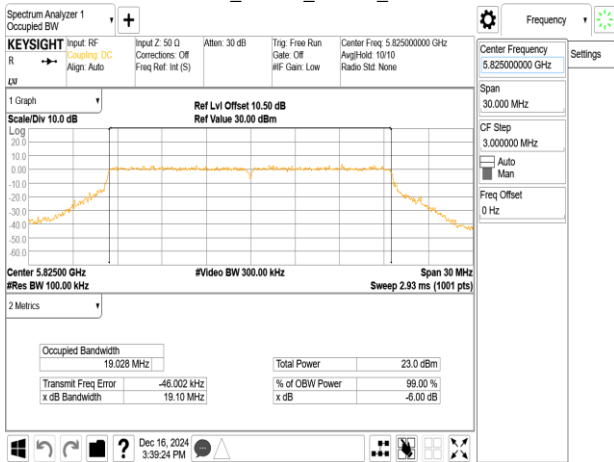


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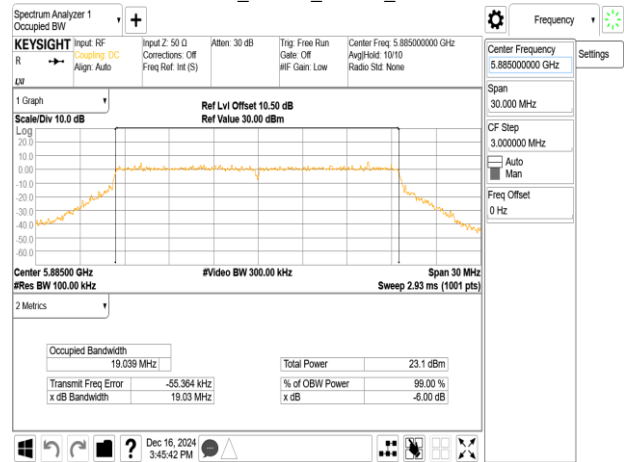
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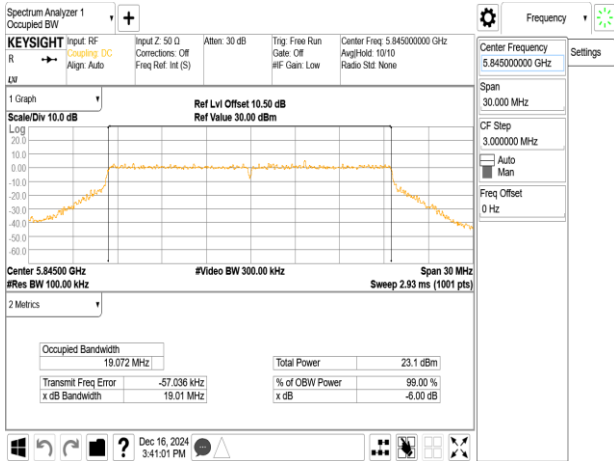
802.11ax_20MHz_Chain0_5825MHz



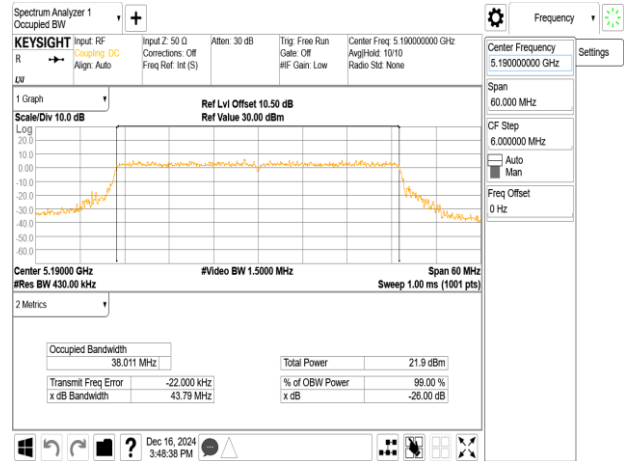
802.11ax_20MHz_Chain0_5885MHz



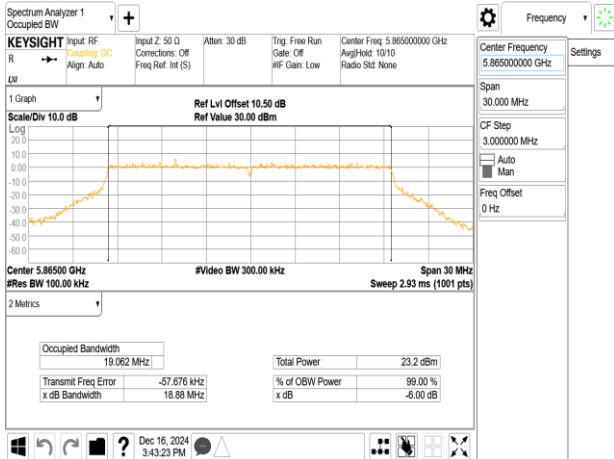
802.11ax_20MHz_Chain0_5845MHz



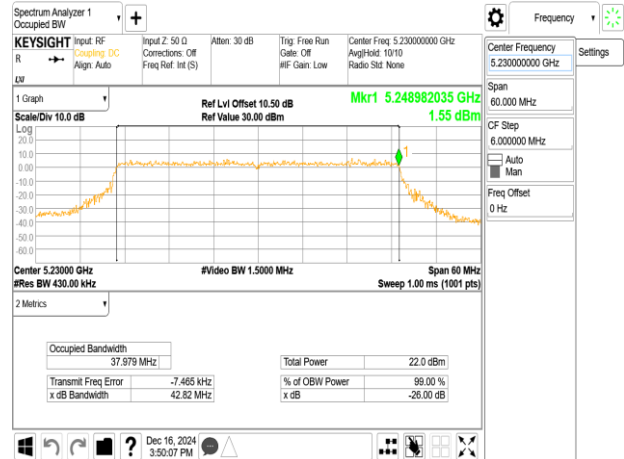
802.11ax_40MHz_Chain0_5190MHz



802.11ax_20MHz_Chain0_5865MHz



802.11ax_40MHz_Chain0_5230MHz



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