

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: GOOGLE LLC
1600 Amphitheatre Parkway Mountain View, CA 94043

Manufacturer: GOOGLE LLC
1600 Amphitheatre Parkway Mountain View, CA 94043

Product Name: Wireless product

Brand Name: GOOGLE

Model No.: G6ZUC

Report Number: ER/2022/30039

FCC ID A4R-G6ZUC

Date of EUT Received: March 10, 2022

Date of Test: March 15, 2022 ~ July 05, 2022

Issue Date: July 18, 2022

Approved By _____

Blue Yang**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
ER/2022/30039	00	Original	May 23, 2022	Violetta Tang	*
ER/2022/30039	01	1. Add declared power table on page 7 2. Update test plots of emission bandwidth on page 29, 31~34 3. Update test procedure on page 120 4. Add chapter 15 on page 414	June 1, 2022	Violetta Tang	*
ER/2022/30039	02	1. Update summary of test items on page 13 2. Add reference statement of section 10.1 on page 76 3. Update test plots of power spectral density on page 78~82 4. Remove transmission in the absence of data chapter 5. Correct typo of setup photo title	June 14, 2022	Violetta Tang	*
ER/2022/30039	03	Update test plots of CBP on page 400~419	July 05, 2022	Violetta Tang	
ER/2022/30039	04	Insert correct formula on the page 70	July 18, 2022	Violetta Tang	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Wireless product
Brand Name:	GOOGLE
Model No.:	G6ZUC
EUT Series No.:	GG1937366 / GG1935428
Power Supply:	10V from AC Adapter
Test Software (Name/Version)	Qualcomm Radio Control Tool /V4.0.00195

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM ,1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
802.11 ax_160MHz: up to 2402 Mbps	

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1.3 Antenna Designation

Antenna Type	Part No.	Freq.(MHz)	Peak Gain (dBi)	Worst combination
PIFA	ANT5	5925~6425	6.00	V
		6425~6525	5.50	V
		6525~6875	5.50	V
		6875~7125	3.40	V
PIFA	ANT6	5925~6425	5.30	
		6425~6525	5.20	
		6525~6875	5.20	
		6875~7125	3.30	

Note:

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

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1.4 Rated Power

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
a n_HT ac_VHT 20MHz	6115~6415	16	20.74 dBm
	6435~6515	5	20.43 dBm
	6535~6875	18	22.29 dBm
	6895~7095	11	18.22 dBm
n_HT ac_VHT 40MHz	6125~6405	8	23.63 dBm
	6445~6525	3	24.14 dBm
	6565~6845	8	25.00 dBm
	6885~7085	6	22.22 dBm
ac_VHT 80MHz	6145~6385	4	23.34 dBm
	6465	1	23.67 dBm
	6545~6865	5	24.96 dBm
	6945~7025	2	21.84 dBm
ac_VHT 160MHz	6185~6345	2	26.51 dBm
	6505	1	23.78 dBm
	6665~6825	2	26.30 dBm
	6985	1	25.48 dBm

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WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
ax_HE 20MHz	6115~6415	16	21.64 dBm
	6435~6515	5	21.56 dBm
	6535~6875	18	22.71 dBm
	6895~7095	11	23.44 dBm
ax_HE 40MHz	6125~6405	8	22.16 dBm
	6445~6525	3	21.89 dBm
	6565~6845	8	27.32 dBm
	6885~7085	6	24.32 dBm
ax_HE 80MHz	6145~6385	4	24.29 dBm
	6465	1	23.69 dBm
	6545~6865	5	26.37 dBm
	6945~7025	2	26.64 dBm
ax_HE 160MHz	6185~6345	2	26.93 dBm
	6505	1	24.34 dBm
	6665~6825	2	28.54 dBm
	6985	1	28.30 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 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 a 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 a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

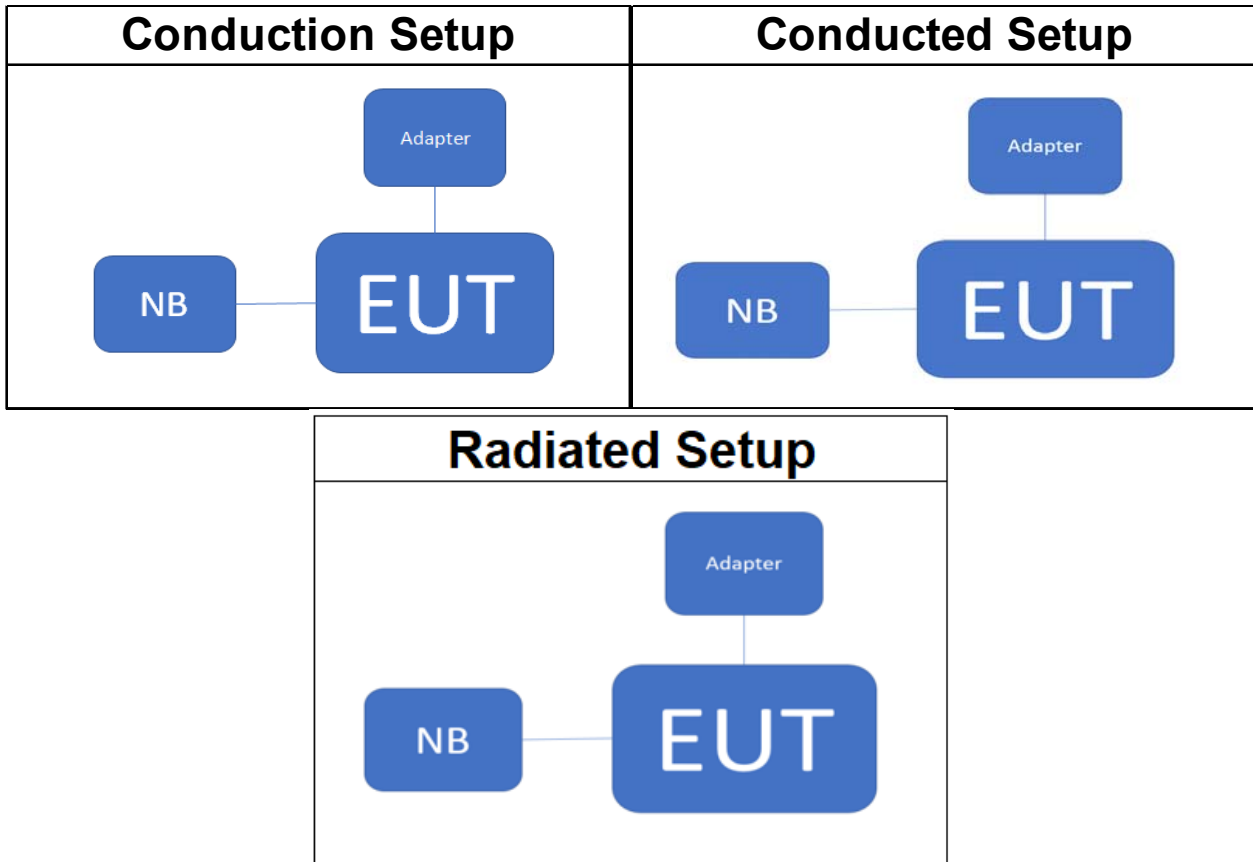
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-01FYE9	N/A	N/A
Adapter	Shenzhen Honor Electronic Co., Ltd.	GKC2H	1HV00217NO00F011B	N/A	N/A
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Adapter	Shenzhen Honor Electronic Co., Ltd.	GKC2H	1HV0021NO00A891B	N/A	N/A
Notebook	Lenovo	L480	PF-1S9NT5	N/A	N/A

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R
Adapter	Shenzhen Honor Electronic Co. Ltd.	GKC2H	1HV00217NO00F011B	N/A	N/A
Notebook	Lenovo	T440P	PC-01FYE9	N/A	N/A

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-089AH5	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(a)(10) §2.1049	Emission Bandwidth	Compliant
§15.407(a)(4~8)	Maximum Conducted Output Power	Compliant
§15.407(a)(4~8)	Power Spectral Density	Compliant
§15.407(b)(6)	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	Undesirable Radiated Emissions	Compliant
§15.407(d)(6)	contention-based protocol	Compliant
§15.407(a)(7)(8)	Dual Client Test Demonstration of Proper Power Adjustment based on Associated AP	NA Device only associates with indoor AP
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz							
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
33	6115	81	6355	35	6125	39	6145	47	6185	97	6435	99	6445	103	6465	111	6505
37	6135	85	6375	43	6165	55	6225	79	6345	101	6455	107	6485				
41	6155	89	6395	51	6205	71	6305			105	6475	115	6525				
45	6175	93	6415	59	6245	87	6385			109	6495						
49	6195			67	6285					113	6515						
53	6215			75	6325												
57	6235			83	6365												
61	6255			91	6405												
65	6275																
69	6295																
73	6315																
77	6335																

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz							
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945	207	6985
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025		
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965				
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005				
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045				
137	6635	173	6815	163	6765					209	6995	227	7085				
141	6655	177	6835	171	6805					213	7015						
145	6675	181	6855	179	6845					217	7035						
149	6695	185	6875							221	7055						
										225	7075						
										229	7095						

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation		Multiple Transmission Spatial					
√	802.11 a	√	2TX				
√	802.11 n	√	2TX	√	BF	√	MIMO
√	802.11 ac	√	2TX	√	BF	√	MIMO
√	802.11 ax	√	2TX	√	BF	√	MIMO

4. Since the EUT antenna combination is cross polarization, the power and PSD of CDD mode is covering the BF mode.
5. 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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RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	6115~6415	33 to 93	65	OFDM	6	2TX
	6435~6515	97 to 113	105			
	6535~6875	117 to 185	181			
	6895~7095	189 to 229	209			
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	6115~6415	33 to 93	33,65,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			
802.11n_HT20	6115~6415	33 to 93	33,65,93	OFDM	MCS0	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			
802.11n_HT40	6125~6405	35 to 91	35,67,91	OFDM	MCS0	2TX
	6445~6525	99 to 115	99,107,115			
	6565~6845	123 to 179	123,147,179			
	6885~7085	187 to 227	187,195,211,227			
802.11ac_VHT80	6145~6385	39 to 87	39,71,87	OFDM	MCS0	2TX
	6465	103	103			
	6545~6865	119 to 183	119,135,151,167,183			
	6945~7025	199 to 215	199,215			
802.11ac_VHT160	6185~6345	47 to 79	47,79	OFDM	MCS0	2TX
	6505	111	111			
	6665~6825	143 to 175	143,175			
	6985	207	207			

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RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	6115~6415	33 to 93	33,65,93	OFDMA	FULL RU	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7095	189 to 229	189,209,229				
802.11ax_HE40	6125~6405	35 to 91	35,67,91	OFDMA	FULL RU	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	6145~6385	39 to 87	39,71,87	OFDMA	FULL RU	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6185~6345	47 to 79	47,79	OFDMA	FULL RU	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	6115~6415	33 to 93	33,65,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			
802.11n_HT20	6115~6415	33 to 93	33,65,93	OFDM	MCS0	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7095	189 to 229	189,209,229			
802.11n_HT40	6125~6405	35 to 91	35,67,91	OFDM	MCS0	2TX
	6445~6525	99 to 115	99,107,115			
	6565~6845	123 to 179	123,147,179			
	6885~7085	187 to 227	187,195,211,227			
802.11ac_VHT80	6145~6385	39 to 87	39,71,87	OFDM	MCS0	2TX
	6465	103	103			
	6545~6865	119 to 183	119,135,151,167,183			
	6945~7025	199 to 215	199,215			
802.11ac_VHT160	6185~6345	47 to 79	47,79	OFDM	MCS0	2TX
	6505	111	111			
	6665~6825	143 to 175	143,175			
	6985	207	207			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	6115~6415	33 to 93	33,65,93	OFDMA	FULL RU	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7095	189 to 229	189,209,229				
802.11ax_HE40	6125~6405	35 to 91	35,67,91	OFDMA	FULL RU	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	6145~6385	39 to 87	39,71,87	OFDMA	FULL RU	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6185~6345	47 to 79	47,79	OFDMA	FULL RU	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz
	+/- 4.93 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz
	+/- 4.45 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 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 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK 8127	1040	08/10/2021	08/09/2022
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2021	12/06/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	09/30/2021	09/29/2022
Power Meter	Anritsu	ML2496A	2138003	11/12/2021	11/11/2022
Power Sensor	Anritsu	MA2411B	1911393	09/21/2021	09/20/2022
Power Sensor	Anritsu	MA2411B	1911394	09/21/2021	09/20/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/16/2021	06/15/2022
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/15/2022	06/14/2023
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/09/2022	03/08/2023
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/09/2022	03/08/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Attenuator	KEYSIGHT	8494B	TH60073121	12/14/2021	12/13/2022
Attenuator	KEYSIGHT	8496B	TH60073123	12/14/2021	12/13/2022
Power Divider	RF-LAMBDA	RFLT2W1G1 8G	11-JSPF412- 017	12/14/2021	12/13/2022
Power Divider	RF-LAMBDA	RFLT4W1G1 8G	16080500174	12/14/2021	12/13/2022
2WayDivider	Woken	0120A02056 002D	DSU7AMW9S 3	12/14/2021	12/13/2022

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/20/2021	12/19/2022
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/03/2022	01/02/2023
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Loop Antenna	ETS.LINDGREN	6502	148045	09/29/2021	09/28/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2022	12/31/2022
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
EMI Test Receiver	R&S	ESCI 7	100759	08/26/2021	08/25/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
Bandreject Filter 2400-2483.5	EWT	EWT-14-0166	M1	12/14/2021	12/13/2022
3.2GHz High Pass Filter	WI	WHKX10-2624-80SS	3	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022

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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

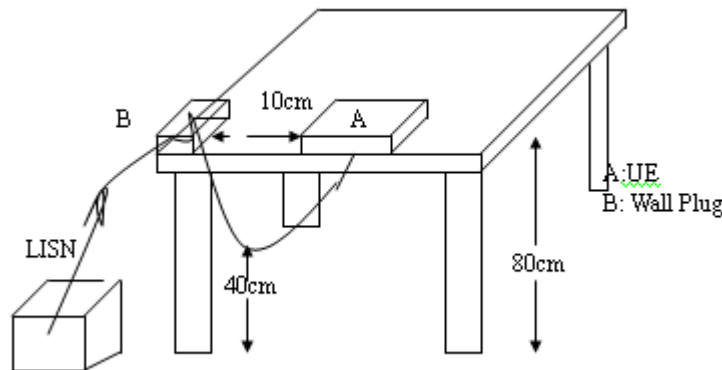
Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz power source.

7.3 Test Setup



7.4 Measurement Procedure

- The EUT was placed on a table which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 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 closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER/2022/30039

Test Site :Conduction 1

Test Mode :WIFI 6E

Test Date :2022-03-15

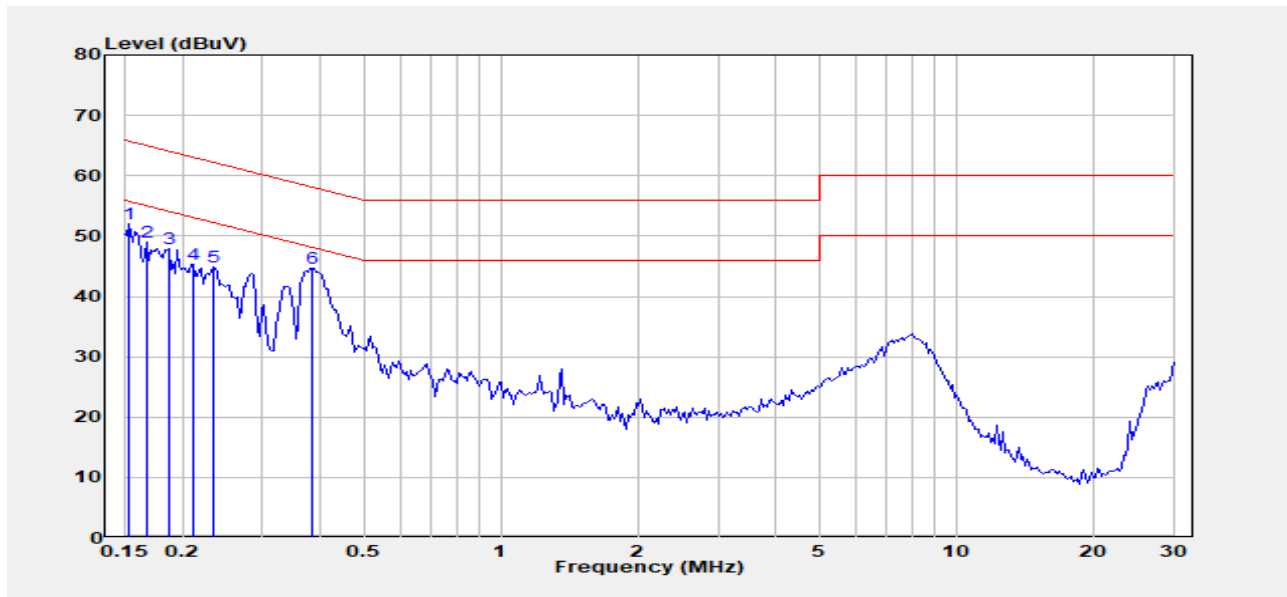
Power :120V/60Hz

Temp./Humi. :22.5/57

Probe :L

Engineer :GN Lin

Note: :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Peak	51.99	0.02	52.01	65.82	-13.82
0.167	Peak	48.92	0.02	48.94	65.12	-16.18
0.187	Peak	47.84	0.02	47.86	64.15	-16.29
0.211	Peak	45.24	0.02	45.26	63.18	-17.93
0.234	Peak	44.93	0.02	44.95	62.30	-17.35
0.385	Peak	44.69	0.07	44.76	58.17	-13.41

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Report Number :ER/2022/30039

Test Site :Conduction 1

Test Mode :WIFI 6E

Test Date :2022-03-15

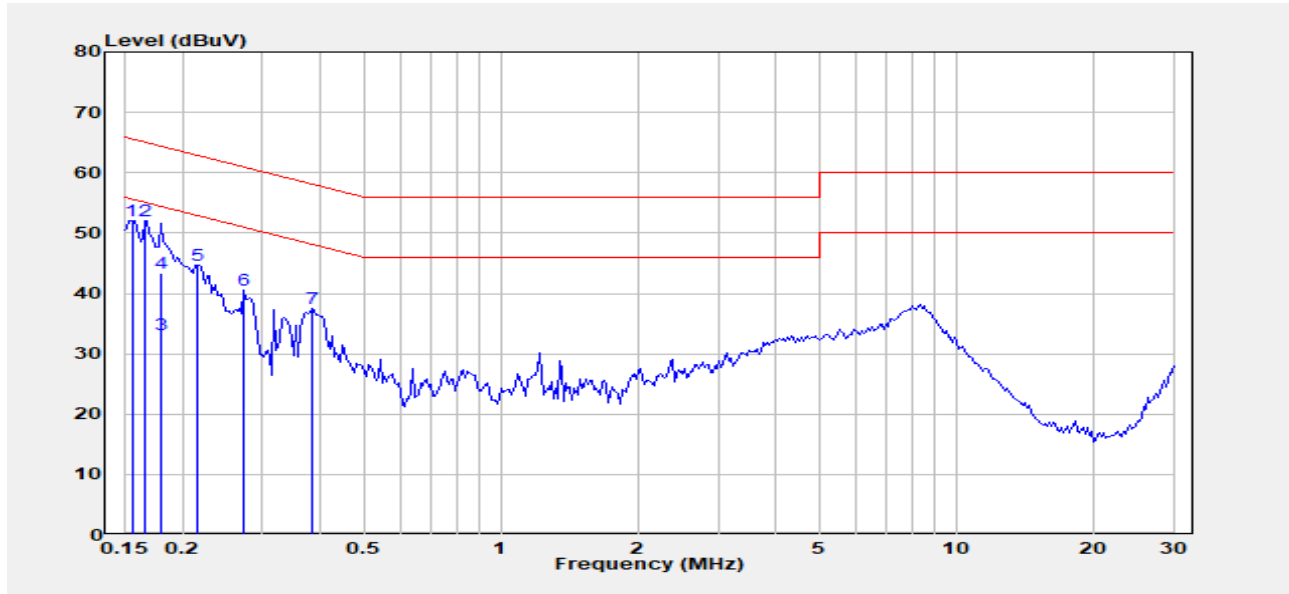
Power :120V/60Hz

Temp./Humi. :22.5/57

Probe :N

Engineer :GN Lin

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Peak	52.07	0.04	52.11	65.74	-13.62
0.165	Peak	52.03	0.08	52.11	65.21	-13.10
0.180	Average	33.06	0.13	33.19	54.50	-21.31
0.180	QP	43.17	0.13	43.30	64.50	-21.20
0.215	Peak	44.49	0.18	44.68	63.01	-18.33
0.272	Peak	40.51	0.12	40.63	61.07	-20.45
0.385	Peak	37.33	0.08	37.41	58.17	-20.75

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8 EMISSION BANDWIDTH

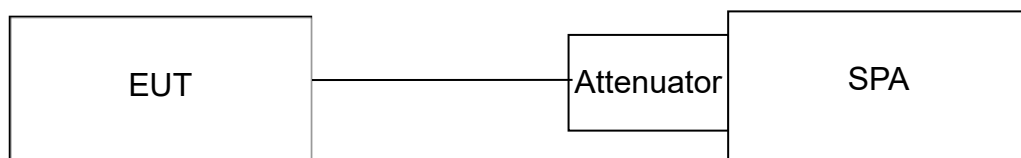
8.1 Standard Applicable

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 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. For 99% Bandwidth: Set the spectrum analyzer as
RBW=1%,
VBW = 3*RBW,
Span = 30M/50MHz,
Detector=Sample,
Sweep=auto.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.

8.3 Test Setup



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8.4 Measurement Result

8.4.1 26dB Bandwidth & 99% Bandwidth

802.11a_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	16.260	18.340
65	6275	16.275	18.680
93	6415	16.255	18.650
97	6435	16.280	18.400
105	6475	16.259	18.170
113	6515	16.252	18.610
117	6535	16.257	18.500
149	6695	16.261	18.390
181	6855	16.245	18.370
185	6875(U-NII 7)	8.145	9.375
185	6875(U-NII 8)	8.145	9.375
189	6895	16.287	19.370
209	6995	16.270	18.670
229	7095	16.290	18.510

802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	16.276	18.670
65	6275	16.301	18.920
93	6415	16.281	19.260
97	6435	16.289	18.290
105	6475	16.276	18.540
113	6515	16.279	18.840
117	6535	16.274	18.400
149	6695	16.274	19.240
181	6855	16.290	18.920
185	6875(U-NII 7)	8.143	9.205
185	6875(U-NII 8)	8.143	9.205
189	6895	16.282	19.430
209	6995	16.274	18.440
229	7095	16.305	18.680

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802.11n_HT20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	17.499	19.660
65	6275	17.464	20.400
93	6415	17.513	20.200
97	6435	17.490	19.850
105	6475	17.493	19.530
113	6515	17.489	19.950
117	6535	17.482	20.590
149	6695	17.465	19.710
181	6855	17.479	19.630
185	6875(U-NII 7)	8.750	9.775
185	6875(U-NII 8)	8.750	9.775
189	6895	17.490	19.760
209	6995	17.517	20.270
229	7095	17.497	19.810

802.11n_HT20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	17.481	19.580
65	6275	17.511	19.380
93	6415	17.503	19.520
97	6435	17.514	19.920
105	6475	17.520	19.450
113	6515	17.488	19.700
117	6535	17.484	19.870
149	6695	17.506	19.880
181	6855	17.497	20.070
185	6875(U-NII 7)	8.754	9.825
185	6875(U-NII 8)	8.754	9.825
189	6895	17.506	19.610
209	6995	17.502	19.570
229	7095	17.495	19.620

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802.11n_HT40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
35	6125	35.783	38.780
67	6285	35.826	39.230
91	6405	35.798	38.840
99	6445	35.789	38.750
107	6485	35.820	39.190
115	6525(U-NII 6)	17.901	19.445
115	6525(U-NII 7)	17.901	19.445
123	6565	35.812	38.990
147	6685	35.828	39.430
179	6845	35.830	38.630
187	6885(U-NII 7)	7.931	9.400
187	6885(U-NII 8)	27.931	29.400
195	6925	35.833	39.110
211	7005	35.766	39.090
227	7085	35.797	39.280

802.11n_HT40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
35	6125	35.787	38.740
67	6285	35.812	38.810
91	6405	35.917	38.300
99	6445	35.853	38.720
107	6485	35.865	38.970
115	6525(U-NII 6)	17.907	19.430
115	6525(U-NII 7)	17.907	19.430
123	6565	35.835	38.620
147	6685	35.834	38.660
179	6845	35.819	38.740
187	6885(U-NII 7)	7.907	9.580
187	6885(U-NII 8)	27.907	29.580
195	6925	35.778	38.690
211	7005	35.783	38.210
227	7085	35.900	38.670

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
39	6145	74.733	79.560
71	6305	74.831	79.810
87	6385	74.909	80.230
103	6465	74.870	80.350
119	6545(U-NII 6)	17.401	19.740
119	6545(U-NII 7)	57.401	59.740
135	6625	74.789	80.050
151	6705	75.064	80.580
167	6785	74.786	79.930
183	6865(U-NII 7)	47.437	50.030
183	6865(U-NII 8)	27.437	30.030
199	6945	74.864	79.600
215	7025	74.961	80.810

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
39	6145	74.731	80.000
71	6305	74.920	79.940
87	6385	74.928	80.080
103	6465	74.939	79.860
119	6545(U-NII 6)	17.520	20.120
119	6545(U-NII 7)	57.520	60.120
135	6625	74.842	80.260
151	6705	74.857	79.330
167	6785	74.986	79.950
183	6865(U-NII 7)	47.517	49.765
183	6865(U-NII 8)	27.517	29.765
199	6945	74.753	79.680
215	7025	74.831	79.870

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802.11ac_VHT160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
47	6185	152.649	160.720
79	6345	153.509	161.450
111	6505(U-NII 6)	96.794	100.765
111	6505(U-NII 7)	56.794	60.765
143	6665	153.459	161.580
175	6825(U-NII 7)	126.465	130.420
175	6825(U-NII 8)	26.465	30.420
207	6985	152.732	160.710

802.11ac_VHT160_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
47	6185	152.286	159.740
79	6345	152.981	161.330
111	6505(U-NII 6)	96.553	99.885
111	6505(U-NII 7)	56.553	59.885
143	6665	153.288	161.330
175	6825(U-NII 7)	126.668	130.310
175	6825(U-NII 8)	26.668	30.310
207	6985	153.659	163.380

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802.11ax_HE20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	18.836	20.620
65	6275	18.771	20.160
93	6415	18.835	20.370
97	6435	18.855	20.660
105	6475	18.831	20.110
113	6515	18.837	20.040
117	6535	18.838	20.630
149	6695	18.806	20.870
181	6855	18.854	20.350
185	6875(U-NII 7)	9.428	10.055
185	6875(U-NII 8)	9.428	10.055
189	6895	18.843	20.390
209	6995	18.841	20.660
229	7095	18.841	20.440

802.11ax_HE20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
33	6115	18.821	20.390
65	6275	18.784	20.470
93	6415	18.831	20.190
97	6435	18.724	20.820
105	6475	18.855	19.980
113	6515	18.802	20.420
117	6535	18.767	20.350
149	6695	18.861	20.200
181	6855	18.816	20.160
185	6875(U-NII 7)	9.414	10.120
185	6875(U-NII 8)	9.414	10.120
189	6895	18.823	20.220
209	6995	18.799	20.150
229	7095	18.807	19.940

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802.11ax_HE40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
35	6125	37.463	40.160
67	6285	37.515	39.590
91	6405	37.463	39.500
99	6445	37.525	39.360
107	6485	37.533	39.830
115	6525(U-NII 6)	18.706	19.840
115	6525(U-NII 7)	18.706	19.840
123	6565	37.460	39.730
147	6685	37.546	39.700
179	6845	37.462	39.690
187	6885(U-NII 7)	8.764	9.840
187	6885(U-NII 8)	28.764	29.840
195	6925	37.443	39.790
211	7005	37.416	39.670
227	7085	37.501	39.460

802.11ax_HE40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
35	6125	37.401	39.520
67	6285	37.540	39.860
91	6405	37.515	39.610
99	6445	37.457	40.170
107	6485	37.463	39.840
115	6525(U-NII 6)	18.720	19.890
115	6525(U-NII 7)	18.720	19.890
123	6565	37.504	39.570
147	6685	37.460	39.580
179	6845	37.509	39.800
187	6885(U-NII 7)	8.790	9.820
187	6885(U-NII 8)	28.790	29.820
195	6925	37.465	39.980
211	7005	37.533	39.800
227	7085	37.548	39.810

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802.11ax_HE80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
39	6145	76.481	80.770
71	6305	76.470	80.540
87	6385	76.527	80.090
103	6465	76.628	80.820
119	6545(U-NII 6)	18.253	20.265
119	6545(U-NII 7)	58.253	60.265
135	6625	76.585	80.780
151	6705	76.715	80.510
167	6785	76.598	80.070
183	6865(U-NII 7)	48.130	49.940
183	6865(U-NII 8)	28.130	29.940
199	6945	76.590	80.460
215	7025	76.597	81.010

802.11ax_HE80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
39	6145	76.334	79.940
71	6305	76.637	80.440
87	6385	76.518	80.380
103	6465	76.527	80.760
119	6545(U-NII 6)	18.335	20.025
119	6545(U-NII 7)	58.335	60.025
135	6625	76.534	80.500
151	6705	76.626	80.180
167	6785	76.633	80.210
183	6865(U-NII 7)	48.351	50.235
183	6865(U-NII 8)	28.351	30.235
199	6945	76.345	79.860
215	7025	76.318	80.290

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802.11ax_HE160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
47	6185	154.013	162.200
79	6345	154.520	161.700
111	6505(U-NII 6)	97.858	100.955
111	6505(U-NII 7)	57.858	60.955
143	6665	155.124	164.280
175	6825(U-NII 7)	127.431	131.185
175	6825(U-NII 8)	27.431	31.185
207	6985	154.512	162.730

802.11ax_HE160_Ch1

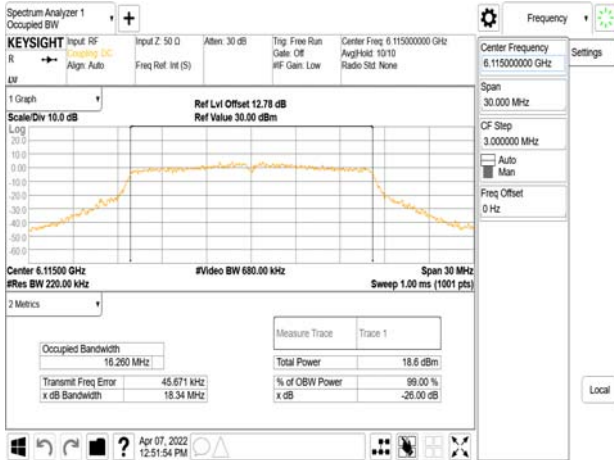
CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
47	6185	154.009	162.000
79	6345	154.800	161.500
111	6505(U-NII 6)	97.177	100.875
111	6505(U-NII 7)	57.177	60.875
143	6665	154.882	161.700
175	6825(U-NII 7)	127.423	130.965
175	6825(U-NII 8)	27.423	30.965
207	6985	155.099	161.780

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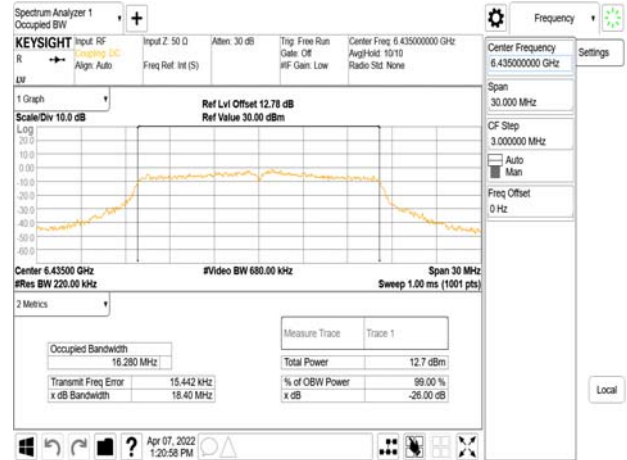
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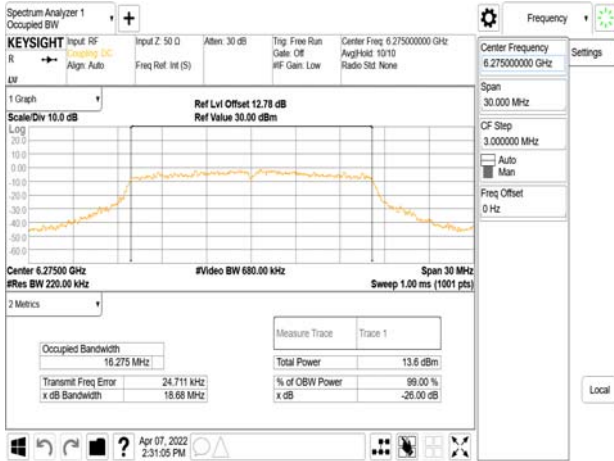
802.11a_20MHz_Chain0_6115MHz



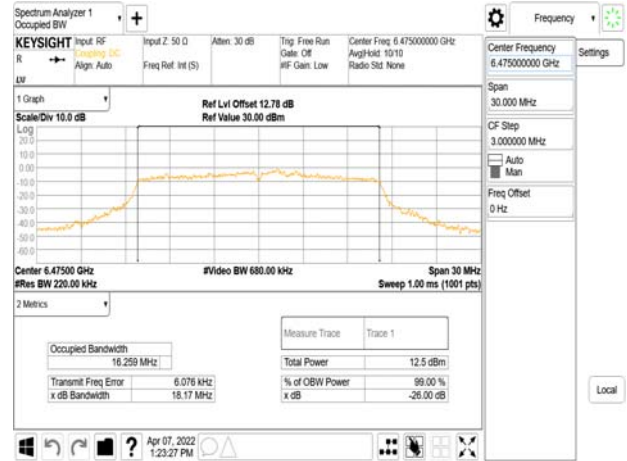
802.11a_20MHz_Chain0_6435MHz



802.11a_20MHz_Chain0_6275MHz



802.11a_20MHz_Chain0_6475MHz



802.11a_20MHz_Chain0_6415MHz



802.11a_20MHz_Chain0_6515MHz

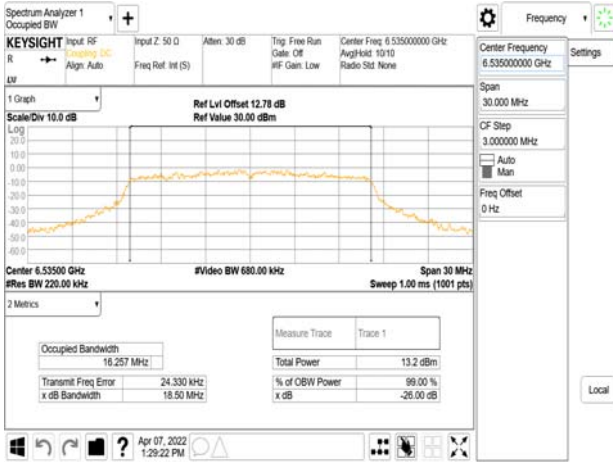


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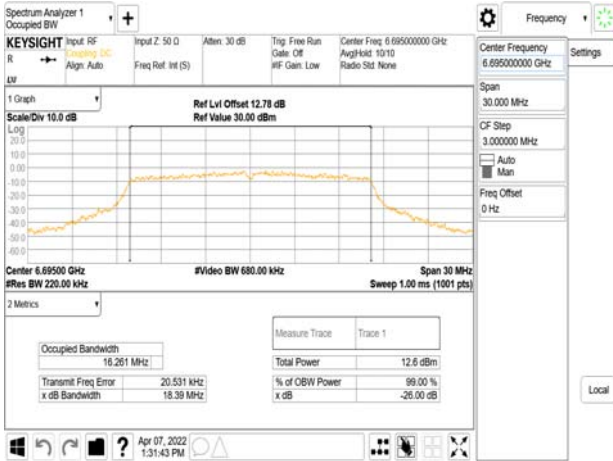
802.11a_20MHz_Chain0_6535MHz



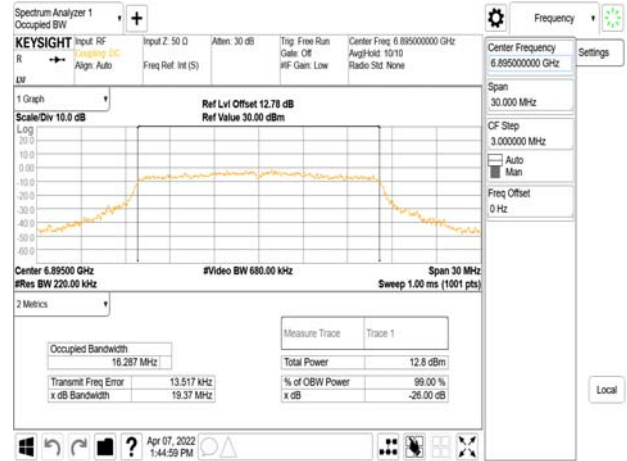
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802.11a_20MHz_Chain0_6695MHz



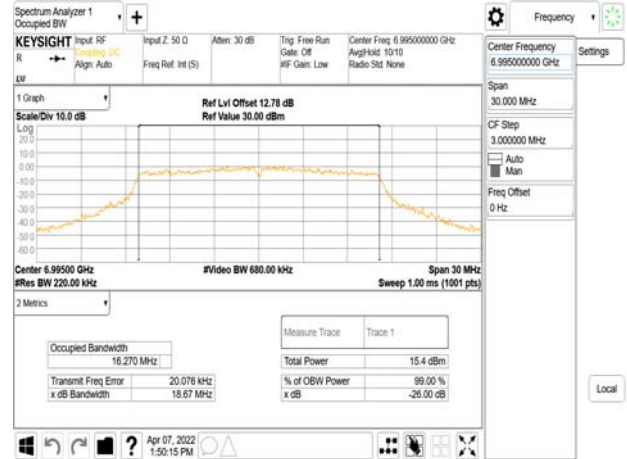
802.11a_20MHz_Chain0_6895MHz



802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6995MHz

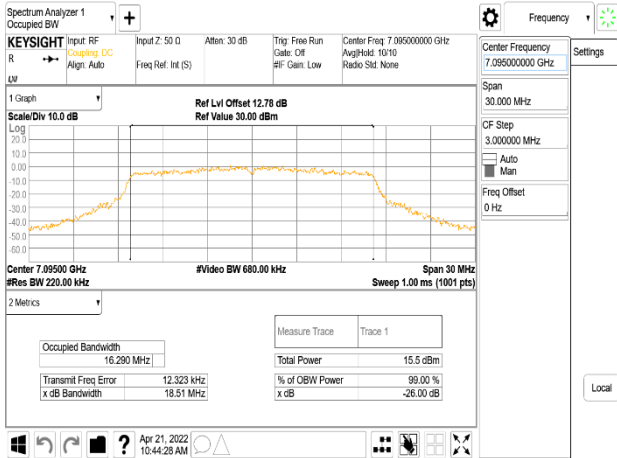


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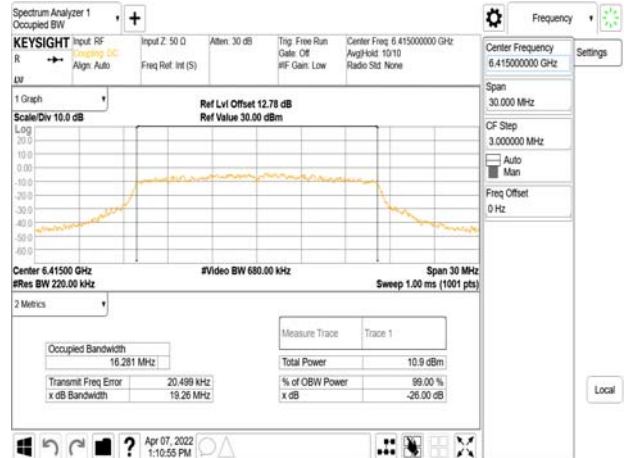
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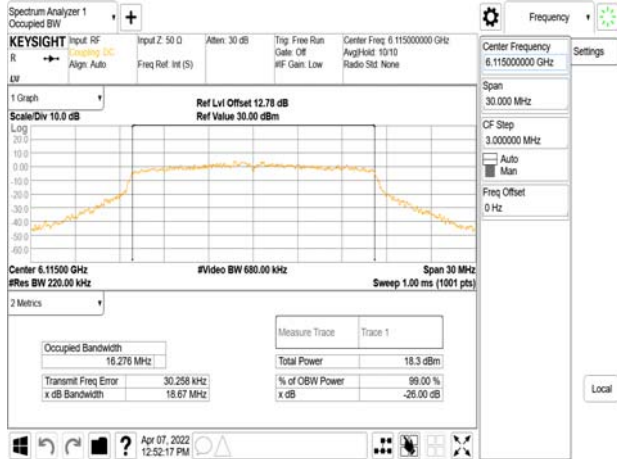
802.11a_20MHz_Chain0_7095MHz



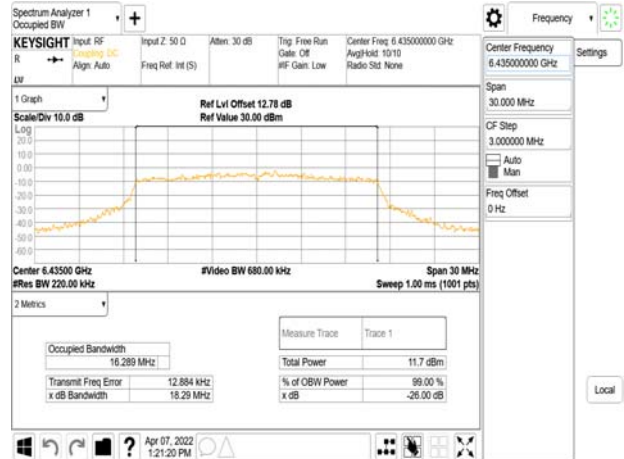
802.11a_20MHz_Chain1_6415MHz



802.11a_20MHz_Chain1_6115MHz



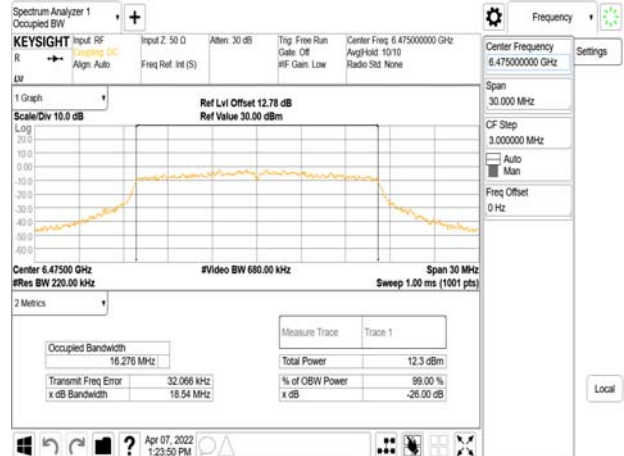
802.11a_20MHz_Chain1_6435MHz



802.11a_20MHz_Chain1_6275MHz



802.11a_20MHz_Chain1_6475MHz

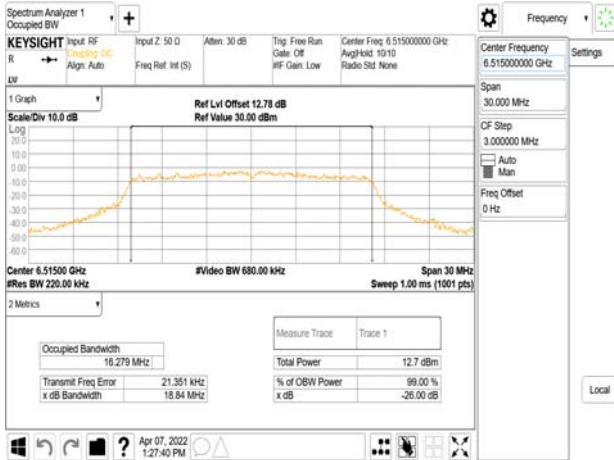


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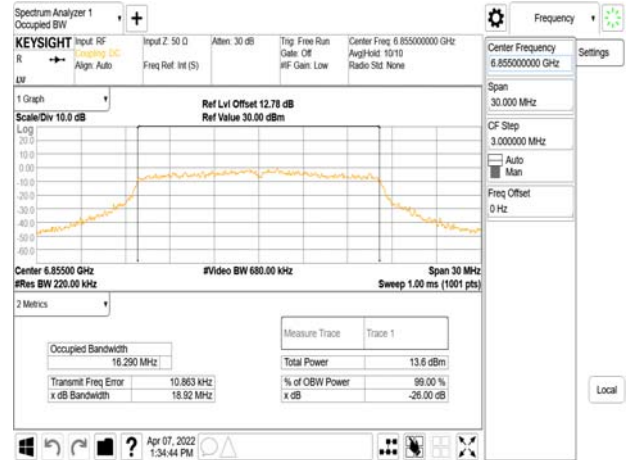
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802.11a_20MHz_Chain1_6515MHz



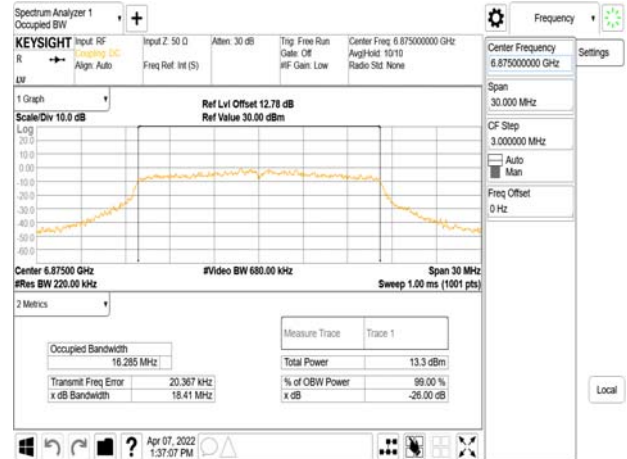
802.11a_20MHz_Chain1_6855MHz



802.11a_20MHz_Chain1_6535MHz



802.11a_20MHz_Chain1_6875MHz



802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6895MHz

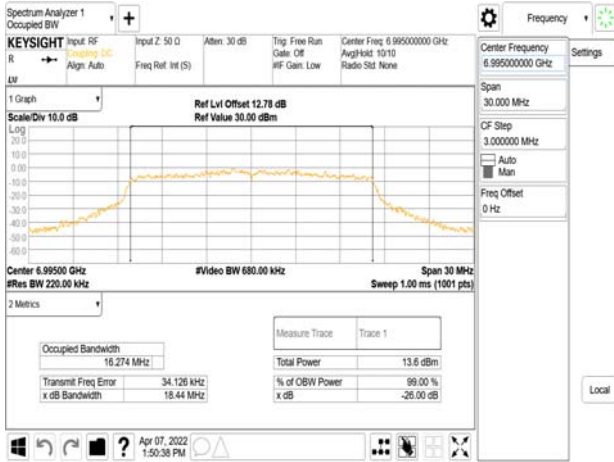


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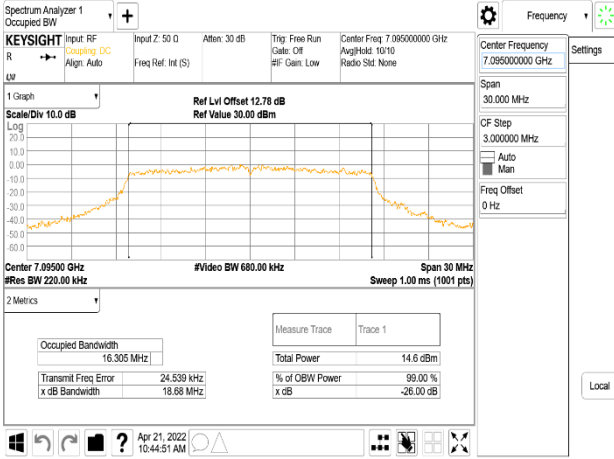
802.11a_20MHz_Chain1_6995MHz



802.11n_20MHz_Chain0_6275MHz



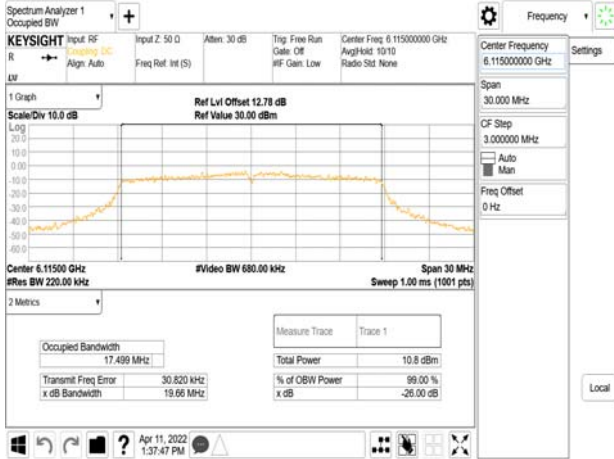
802.11a_20MHz_Chain1_7115MHz



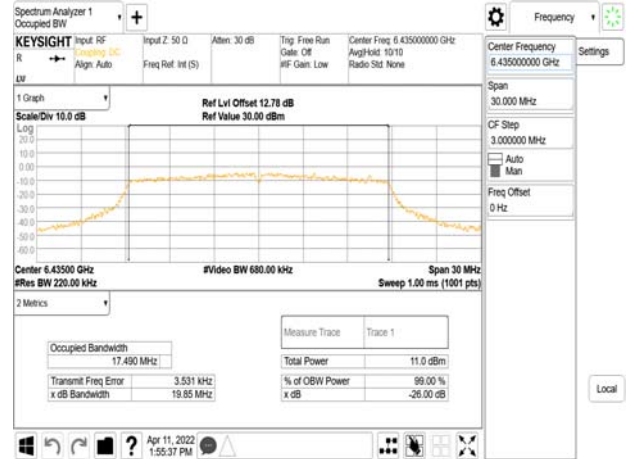
802.11n_20MHz_Chain0_6415MHz



802.11n_20MHz_Chain0_6115MHz



802.11n_20MHz_Chain0_6435MHz

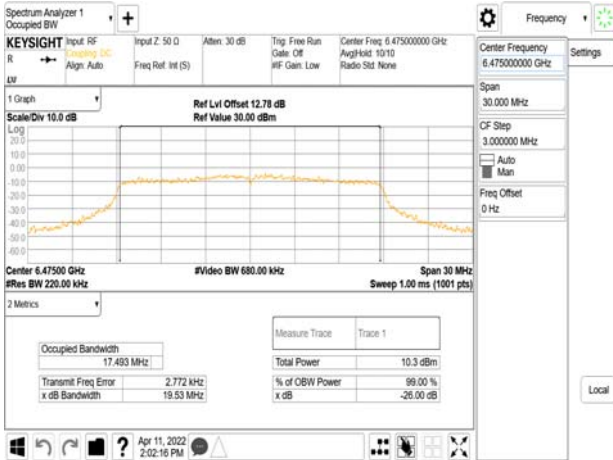


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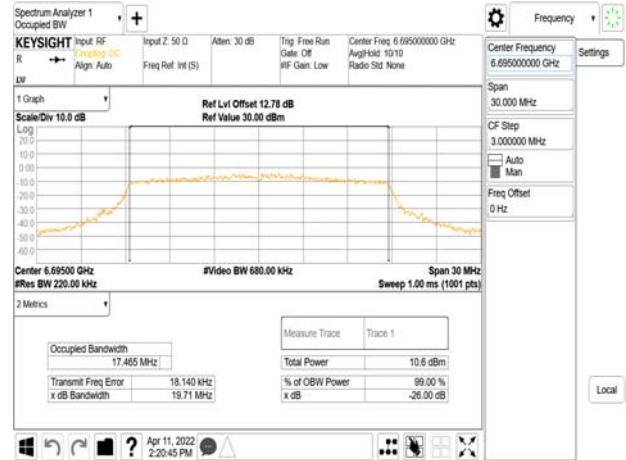
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802.11n_20MHz_Chain0_6475MHz



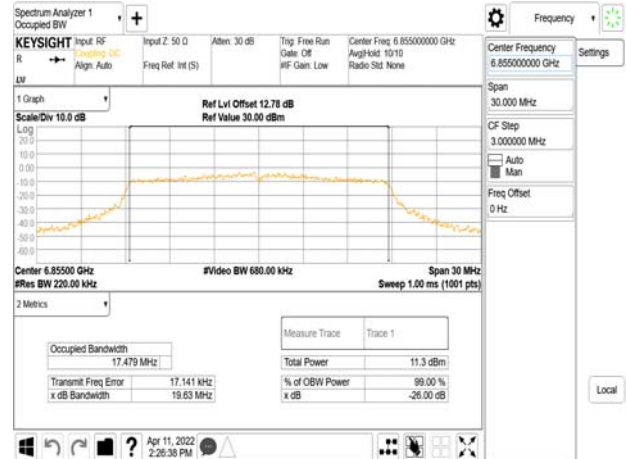
802.11n_20MHz_Chain0_6695MHz



802.11n_20MHz_Chain0_6515MHz



802.11n_20MHz_Chain0_6855MHz



802.11n_20MHz_Chain0_6535MHz



802.11n_20MHz_Chain0_6875MHz

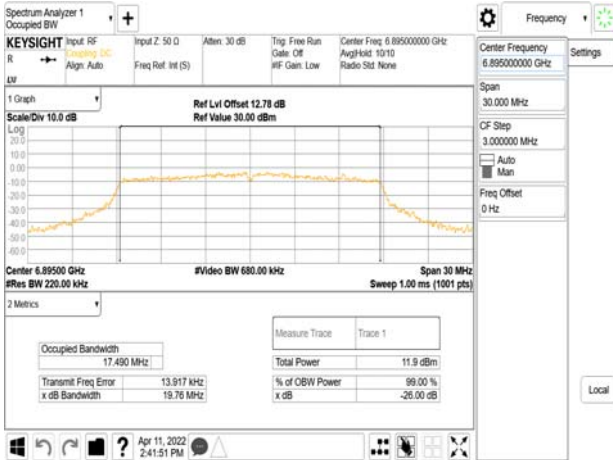


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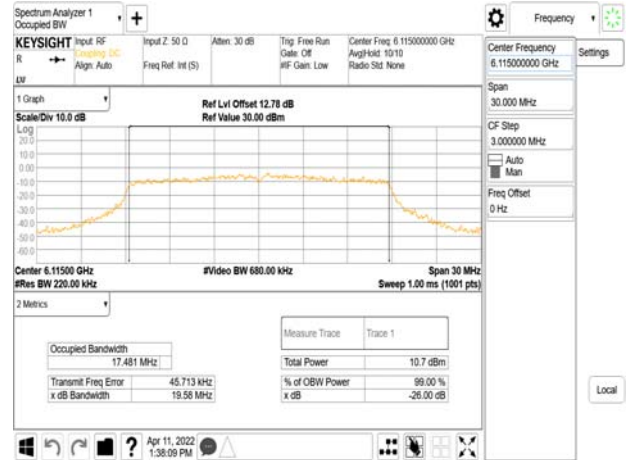
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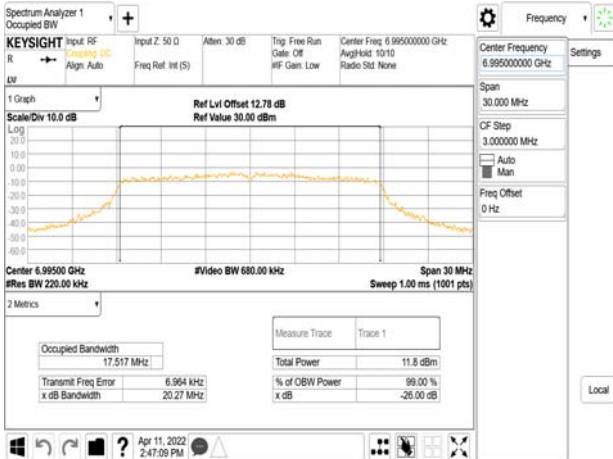
802.11n_20MHz_Chain0_6895MHz



802.11n_20MHz_Chain1_6115MHz



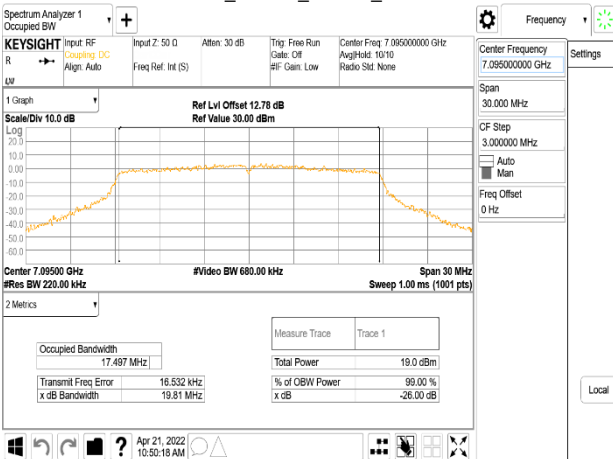
802.11n_20MHz_Chain0_6995MHz



802.11n_20MHz_Chain1_6275MHz



802.11n_20MHz_Chain0_7095MHz



802.11n_20MHz_Chain1_6415MHz

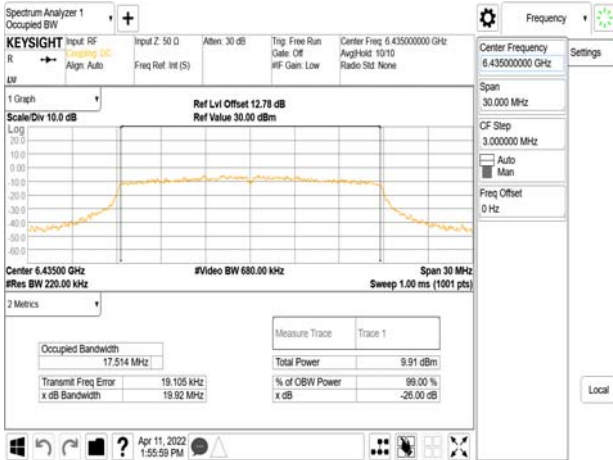


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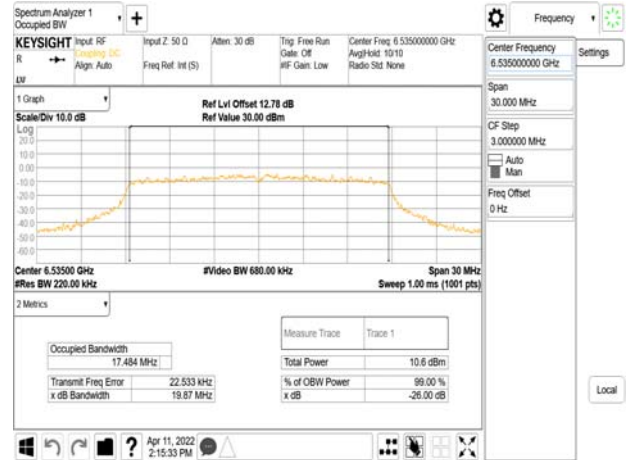
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802.11n_20MHz_Chain1_6435MHz



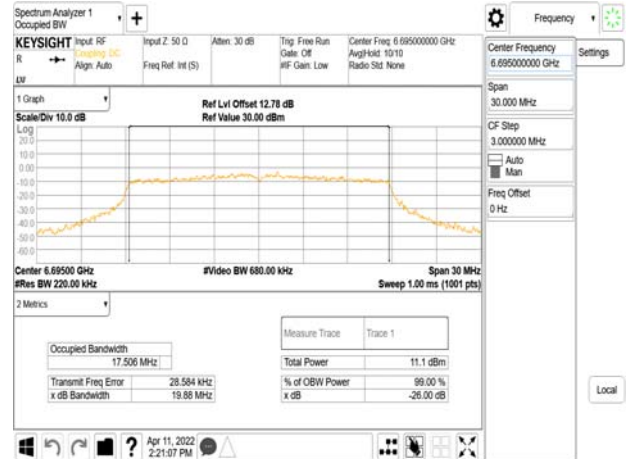
802.11n_20MHz_Chain1_6535MHz



802.11n_20MHz_Chain1_6475MHz



802.11n_20MHz_Chain1_6695MHz



802.11n_20MHz_Chain1_6515MHz



802.11n_20MHz_Chain1_6855MHz

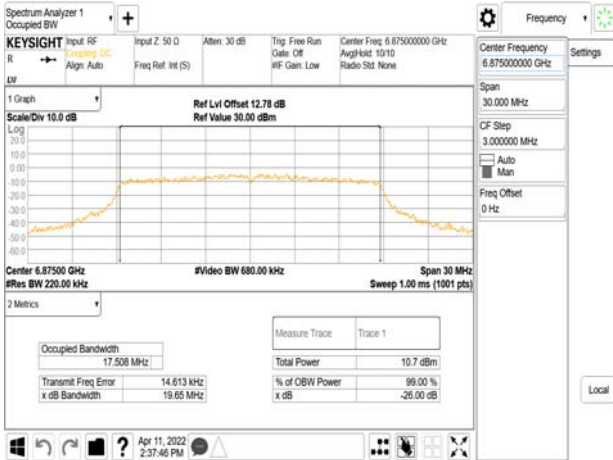


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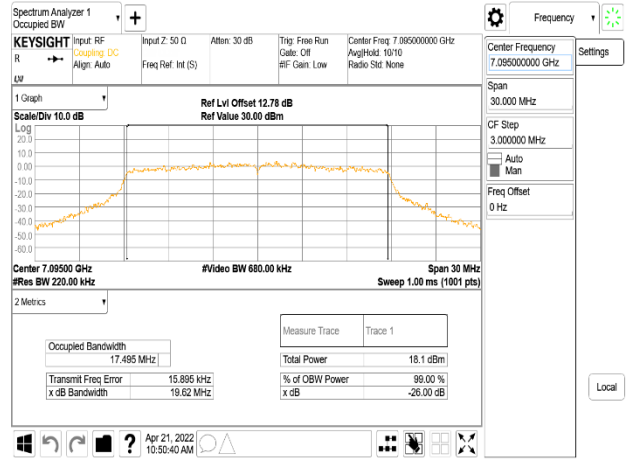
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802.11n_20MHz_Chain1_6875MHz



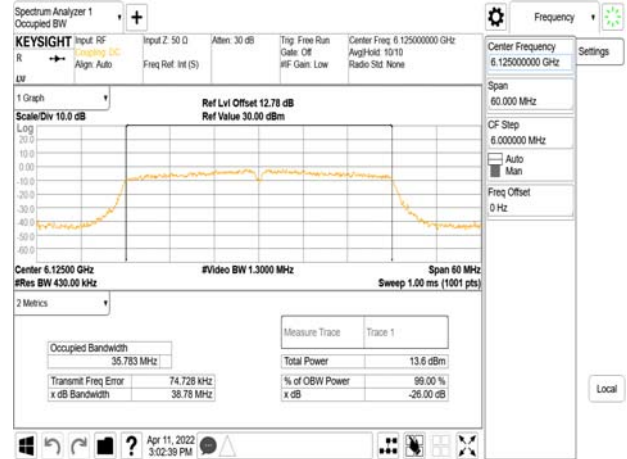
802.11n_20MHz_Chain1_7095MHz



802.11n_20MHz_Chain1_6895MHz



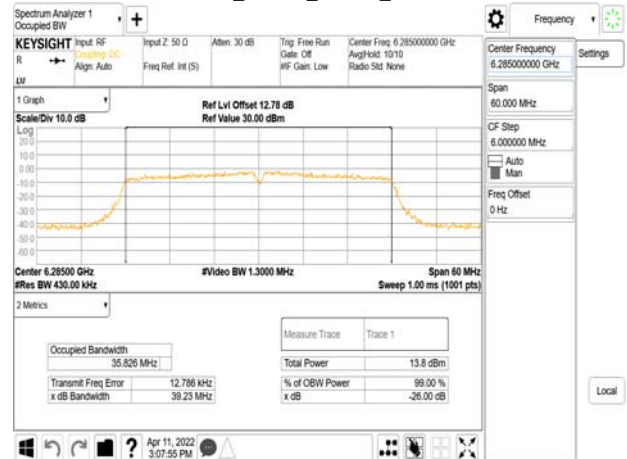
802.11n_40MHz_Chain0_6125MHz



802.11n_20MHz_Chain1_6995MHz



802.11n_40MHz_Chain0_6285MHz

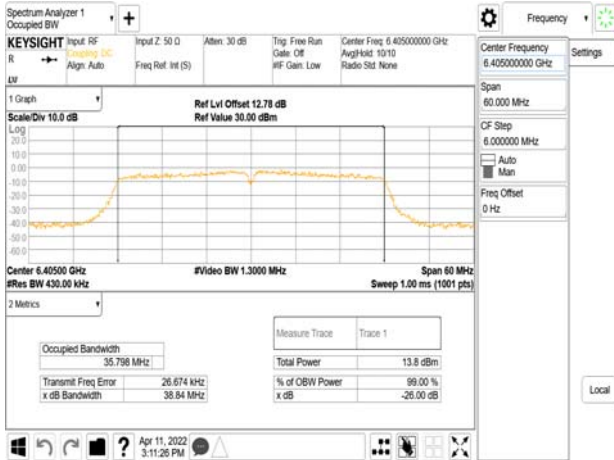


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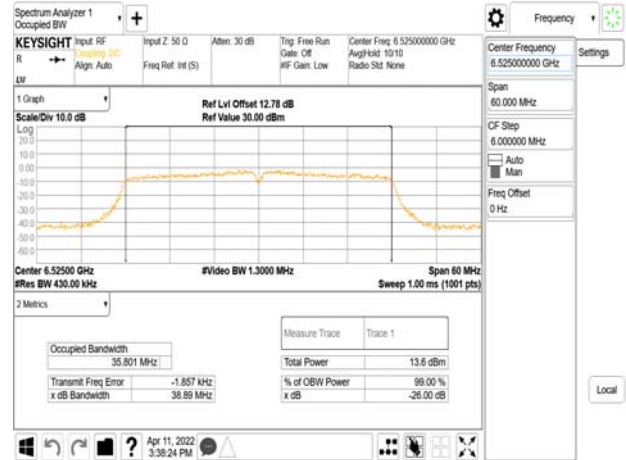
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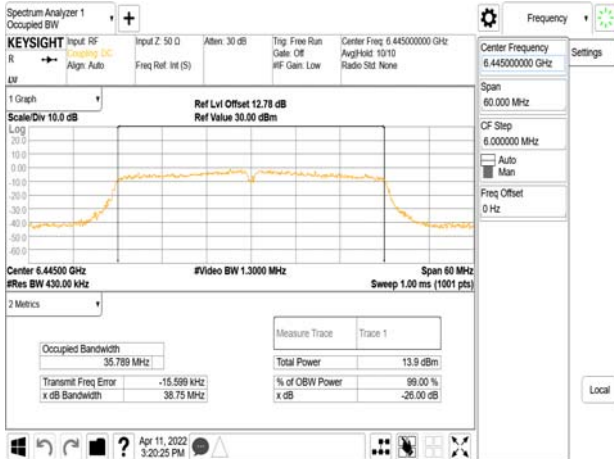
802.11n_40MHz_Chain0_6405MHz



802.11n_40MHz_Chain0_6525MHz



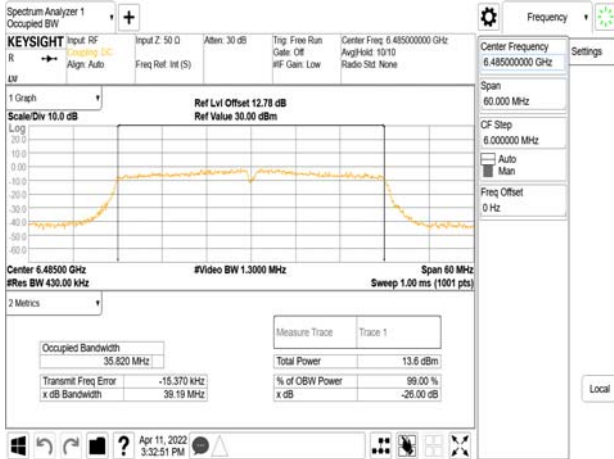
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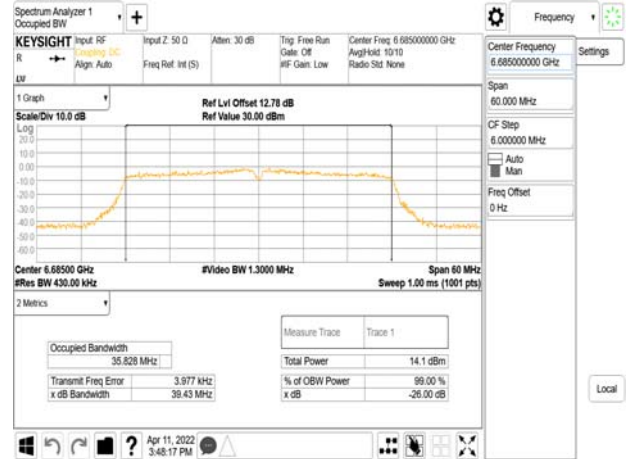
802.11n_40MHz_Chain0_6565MHz



802.11n_40MHz_Chain0_6485MHz



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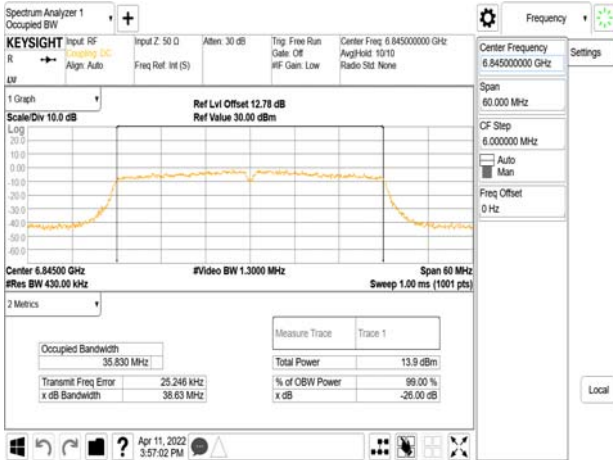


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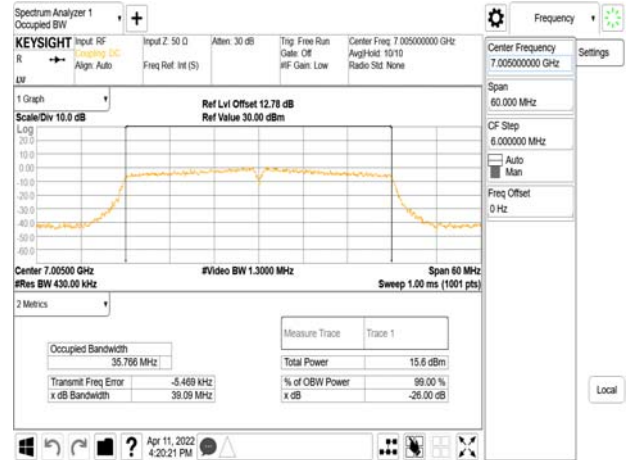
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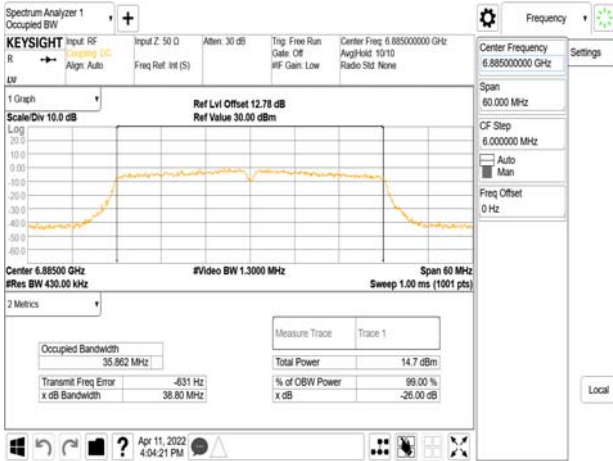
802.11n_40MHz_Chain0_6845MHz



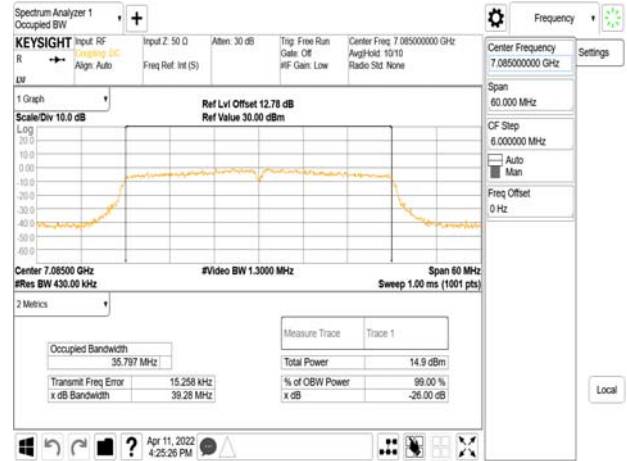
802.11n_40MHz_Chain0_7005MHz



802.11n_40MHz_Chain0_6885MHz



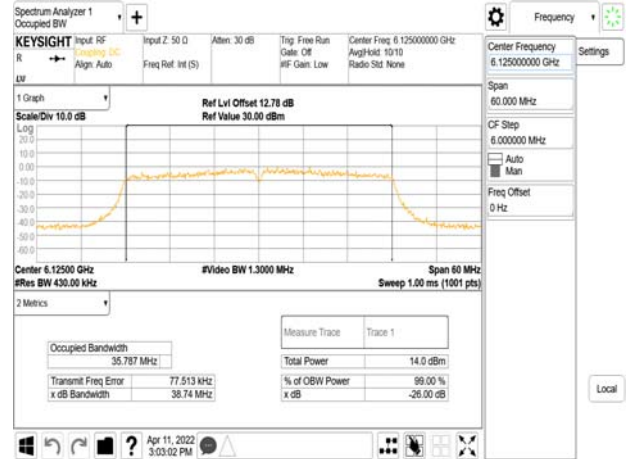
802.11n_40MHz_Chain0_7085MHz



802.11n_40MHz_Chain0_6925MHz



802.11n_40MHz_Chain1_6125MHz

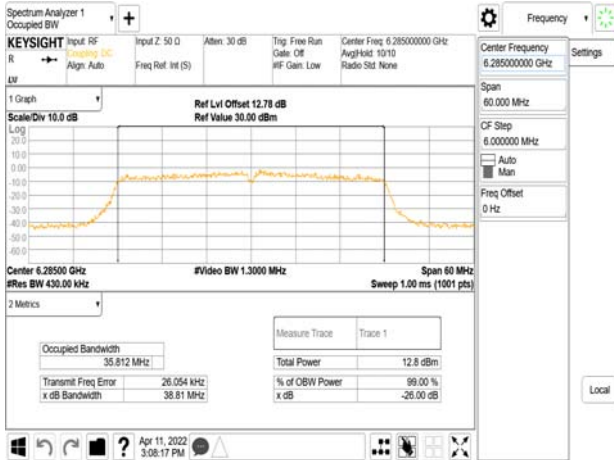


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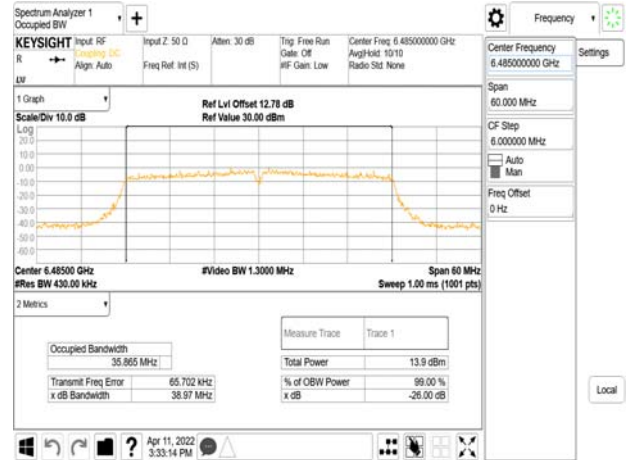
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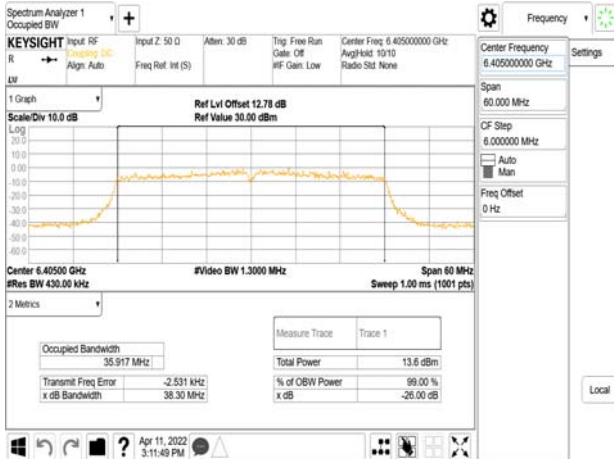
802.11n_40MHz_Chain1_6285MHz



802.11n_40MHz_Chain1_6485MHz



802.11n_40MHz_Chain1_6405MHz



802.11n_40MHz_Chain1_6525MHz



802.11n_40MHz_Chain1_6445MHz



802.11n_40MHz_Chain1_6565MHz

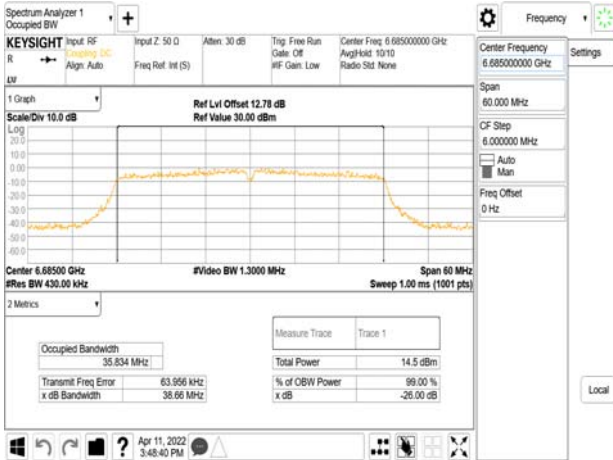


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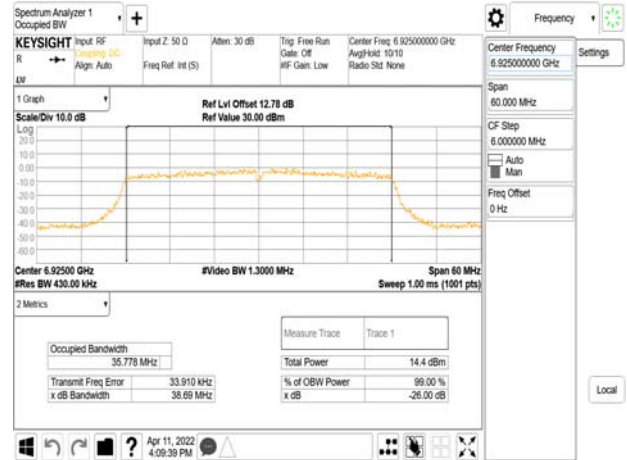
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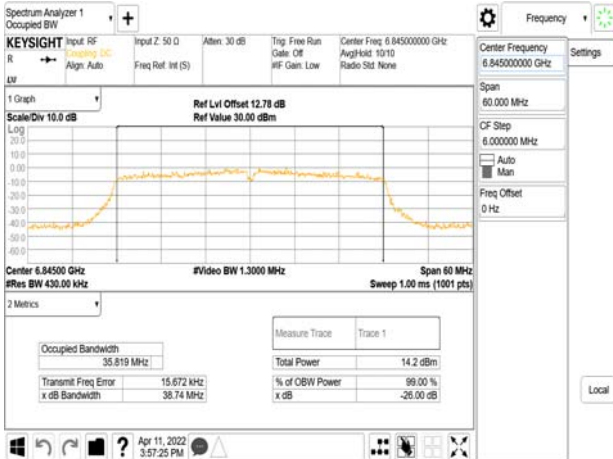
802.11n_40MHz_Chain1_6685MHz



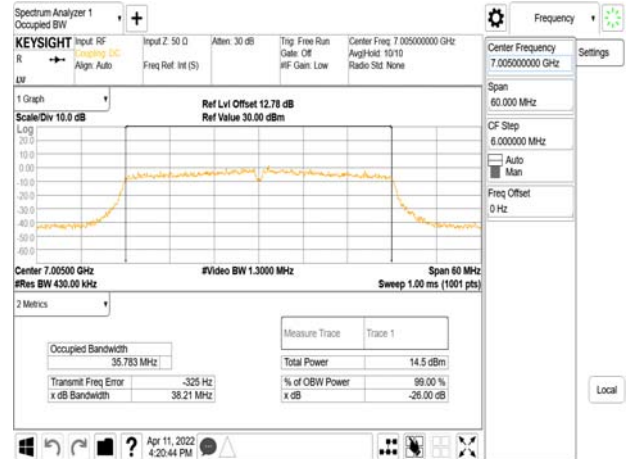
802.11n_40MHz_Chain1_6925MHz



802.11n_40MHz_Chain1_6845MHz



802.11n_40MHz_Chain1_7005MHz



802.11n_40MHz_Chain1_6885MHz



802.11n_40MHz_Chain1_7085MHz

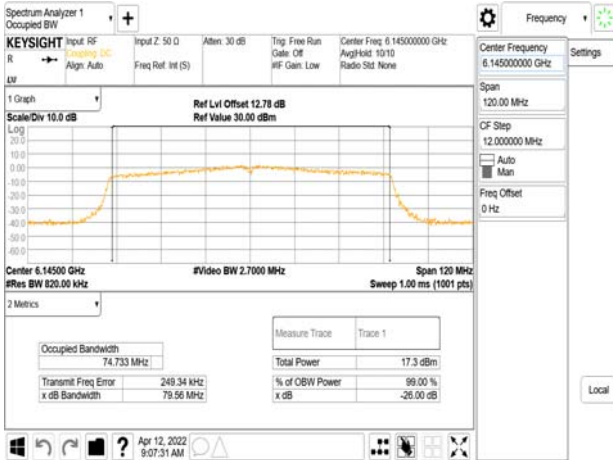


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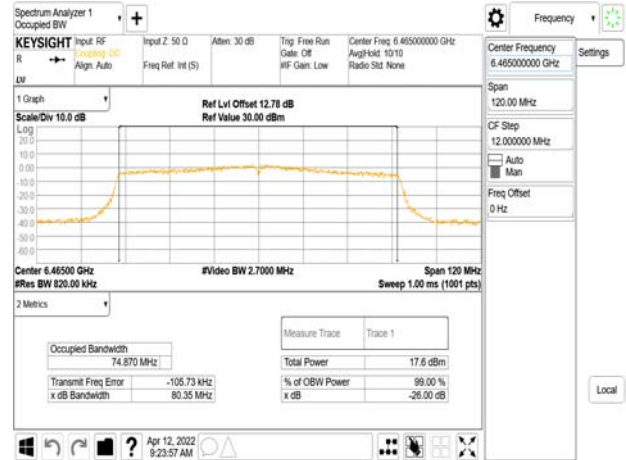
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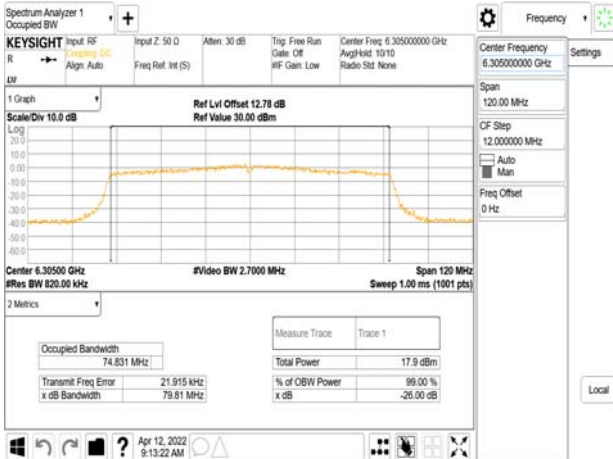
802.11ac_80MHz_Chain0_6145MHz



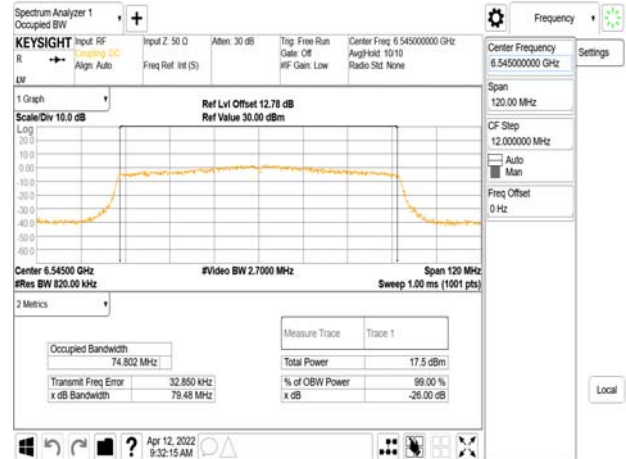
802.11ac_80MHz_Chain0_6465MHz



802.11ac_80MHz_Chain0_6305MHz



802.11ac_80MHz_Chain0_6545MHz



802.11ac_80MHz_Chain0_6385MHz



802.11ac_80MHz_Chain0_6625MHz

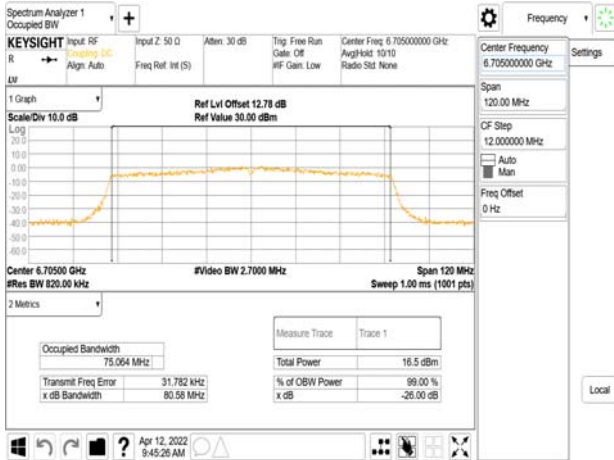


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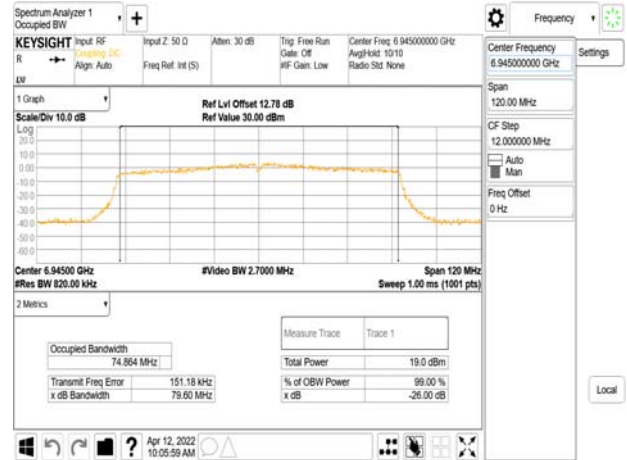
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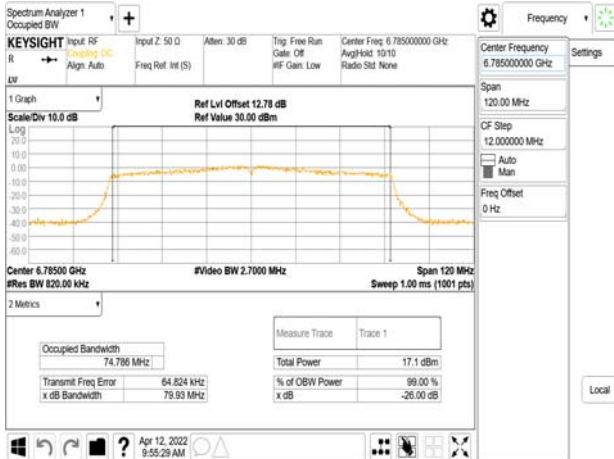
802.11ac_80MHz_Chain0_6705MHz



802.11ac_80MHz_Chain0_6945MHz



802.11ac_80MHz_Chain0_6785MHz



802.11ac_80MHz_Chain0_7025MHz



802.11ac_80MHz_Chain0_6865MHz



802.11ac_80MHz_Chain1_6145MHz

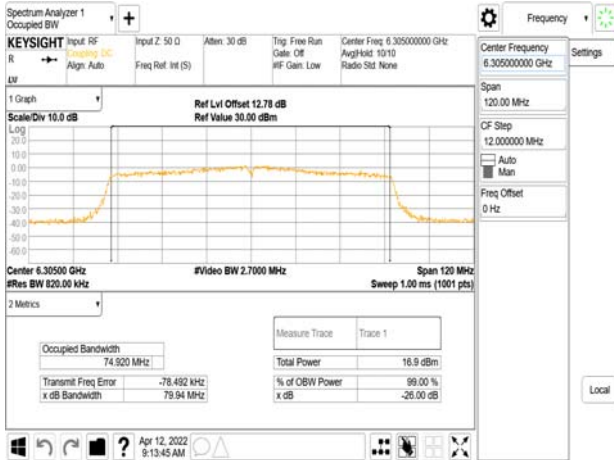


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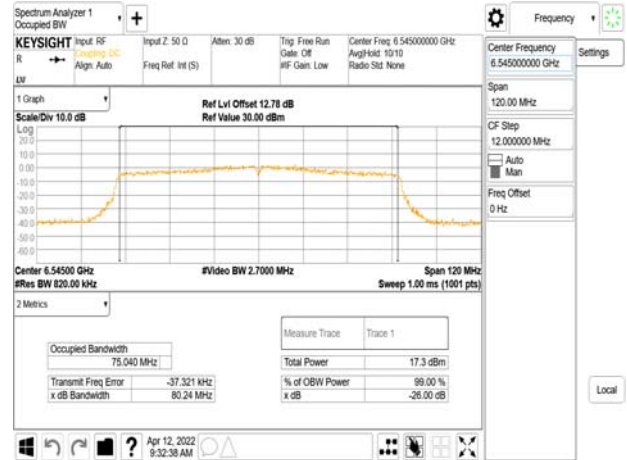
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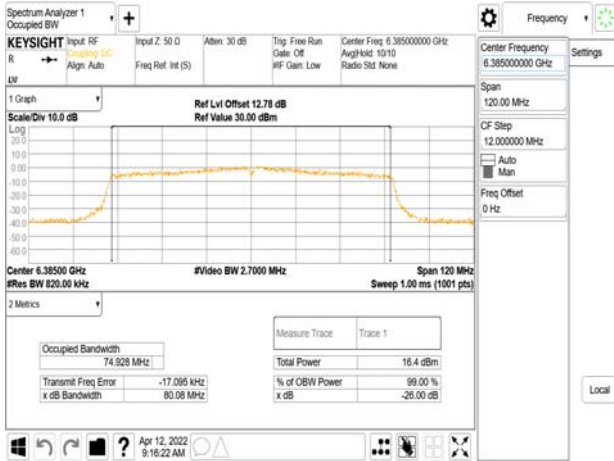
802.11ac_80MHz_Chain1_6305MHz



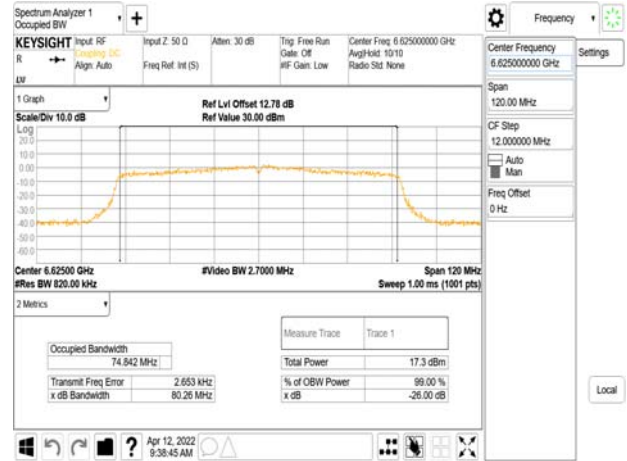
802.11ac_80MHz_Chain1_6545MHz



802.11ac_80MHz_Chain1_6385MHz



802.11ac_80MHz_Chain1_6625MHz



802.11ac_80MHz_Chain1_6465MHz



802.11ac_80MHz_Chain1_6705MHz

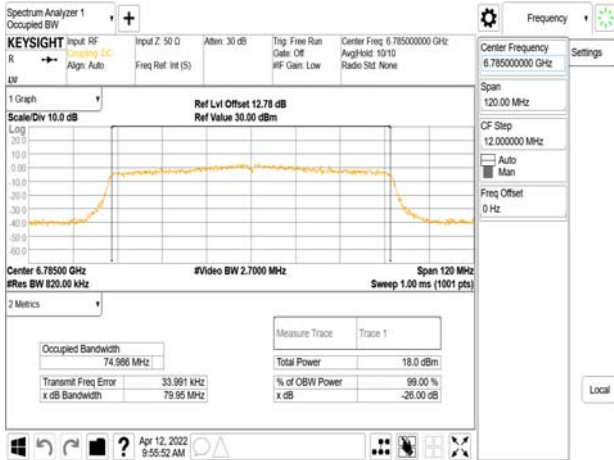


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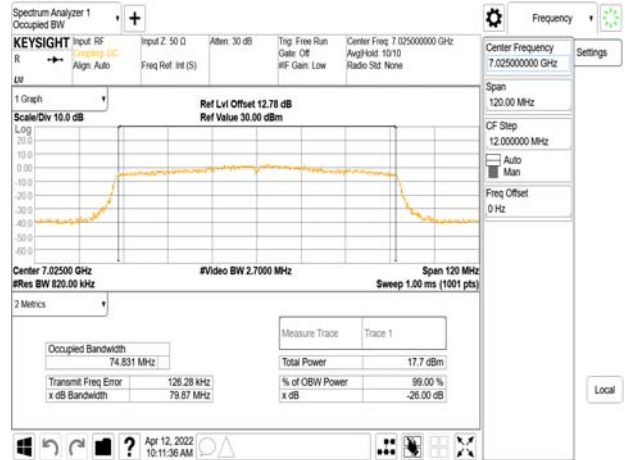
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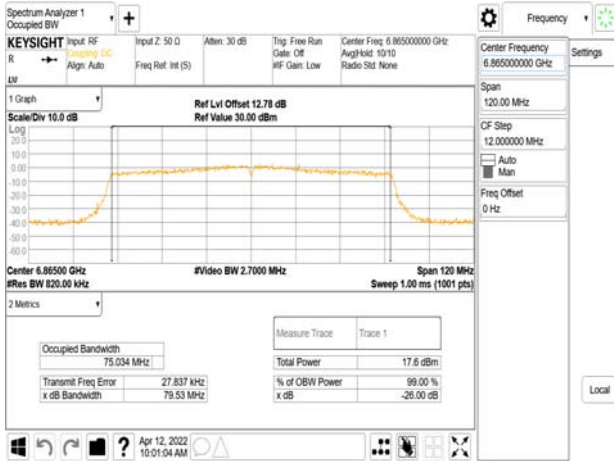
802.11ac_80MHz_Chain1_6785MHz



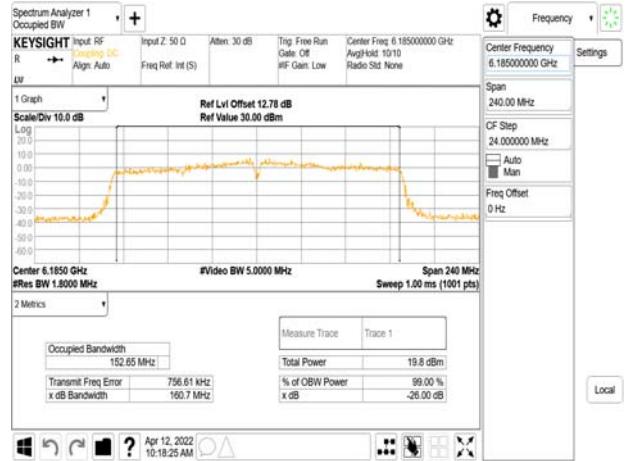
802.11ac_80MHz_Chain1_7025MHz



802.11ac_80MHz_Chain1_6865MHz



802.11ac_160MHz_Chain0_6185MHz



802.11ac_80MHz_Chain1_6945MHz



802.11ac_160MHz_Chain0_6345MHz

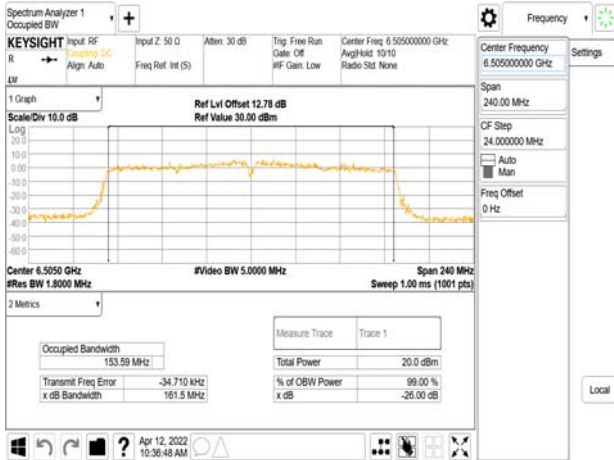


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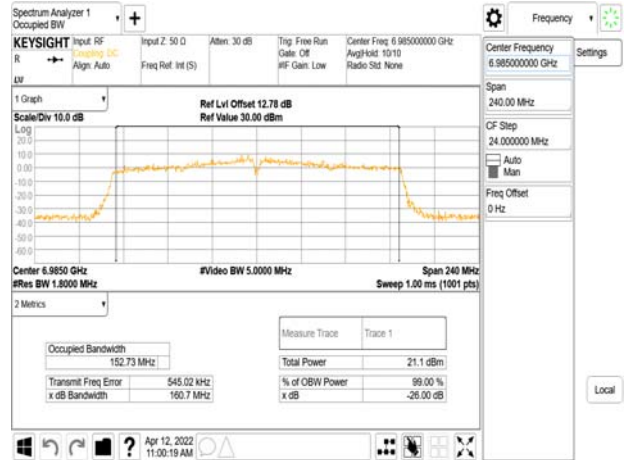
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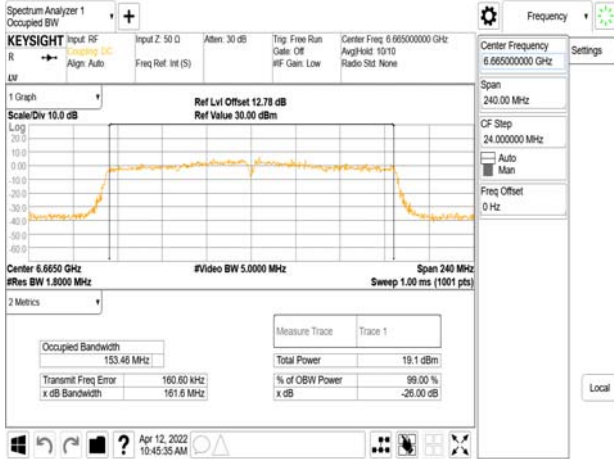
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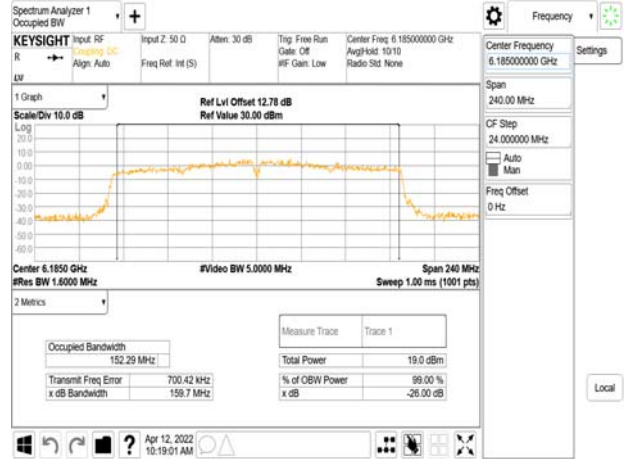
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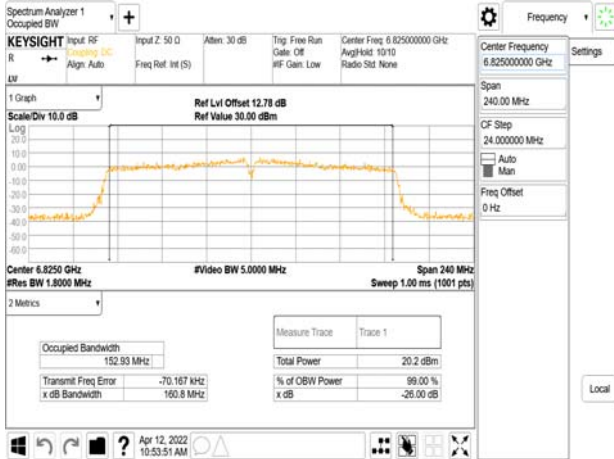
802.11ac_160MHz_Chain0_6665MHz



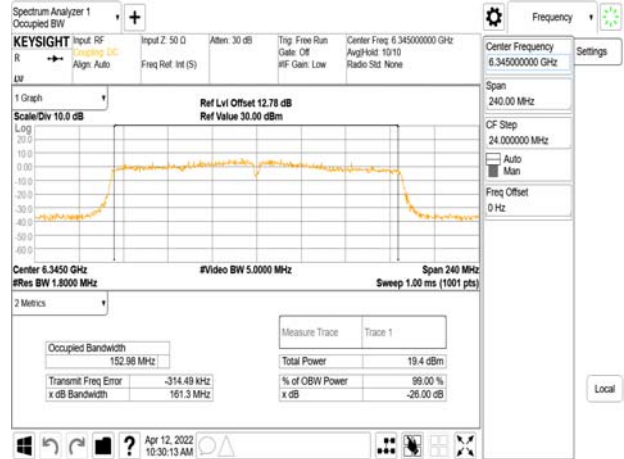
802.11ac_160MHz_Chain1_6185MHz



802.11ac_160MHz_Chain0_6825MHz



802.11ac_160MHz_Chain1_6345MHz

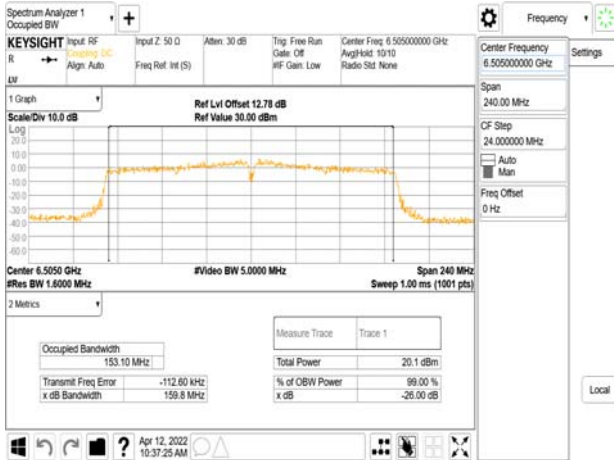


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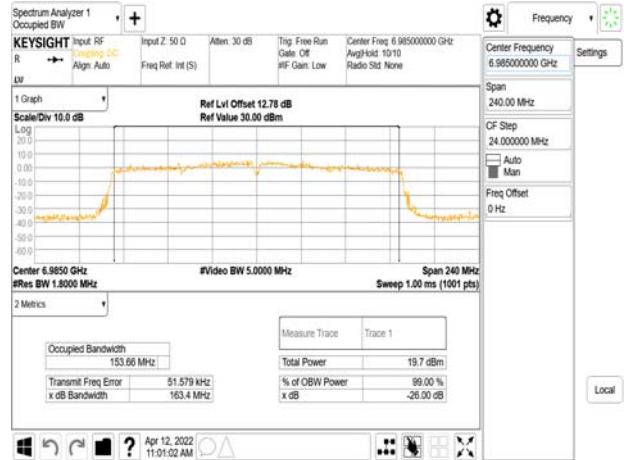
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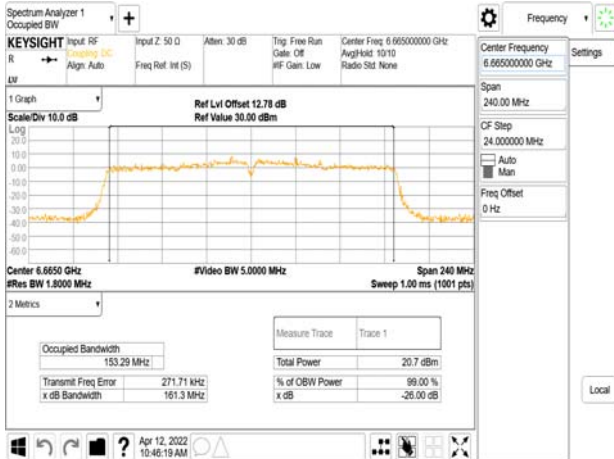
802.11ac_160MHz_Chain1_6505MHz



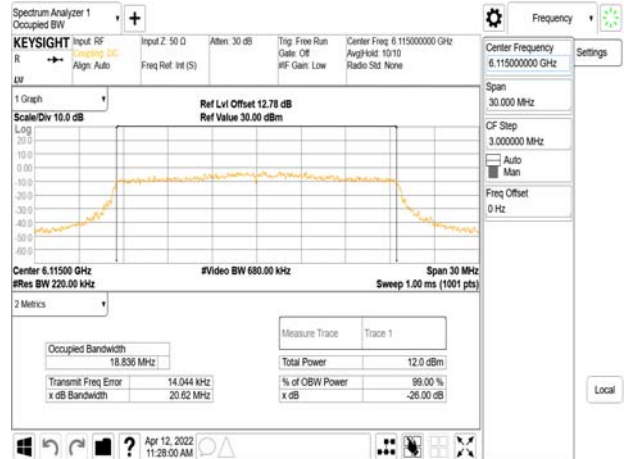
802.11ac_160MHz_Chain1_6985MHz



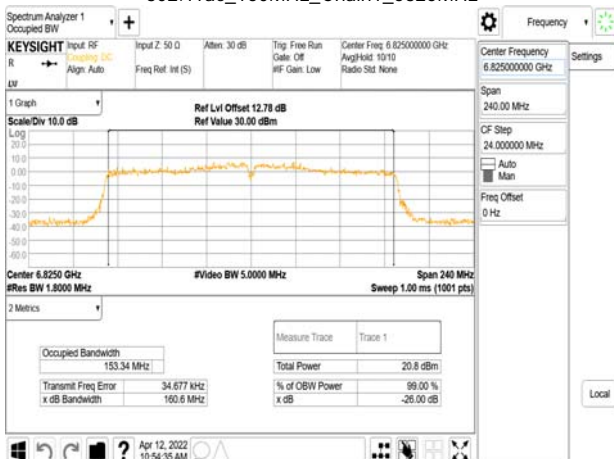
802.11ac_160MHz_Chain1_6665MHz



802.11ax_20MHz_Chain0_6115MHz



802.11ac_160MHz_Chain1_6825MHz



802.11ax_20MHz_Chain0_6275MHz

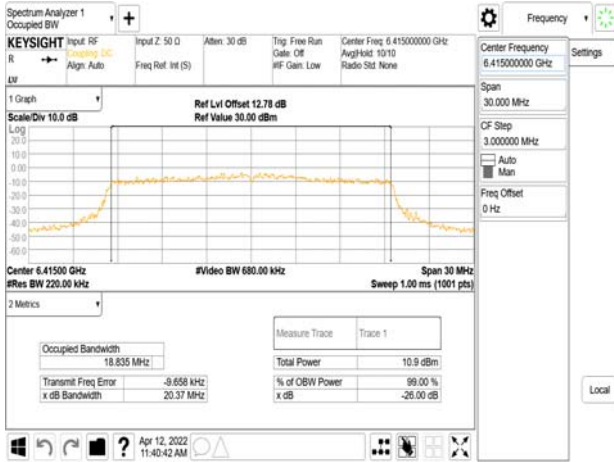


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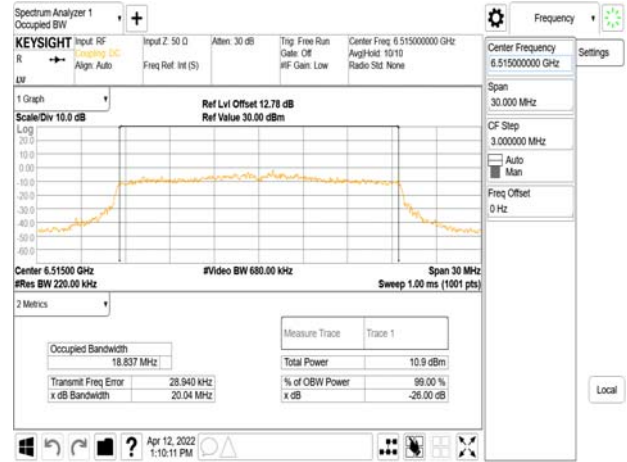
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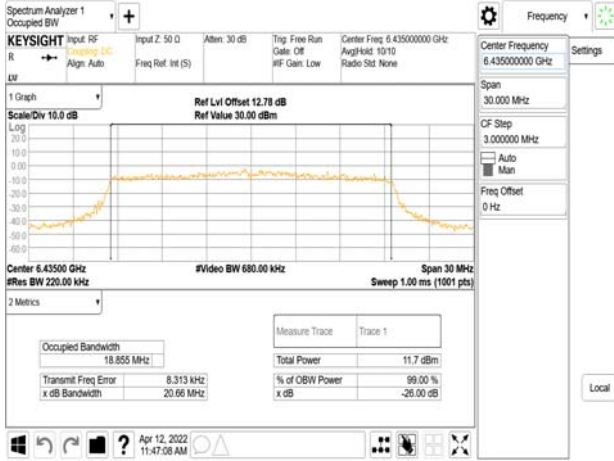
802.11ax_20MHz_Chain0_6415MHz



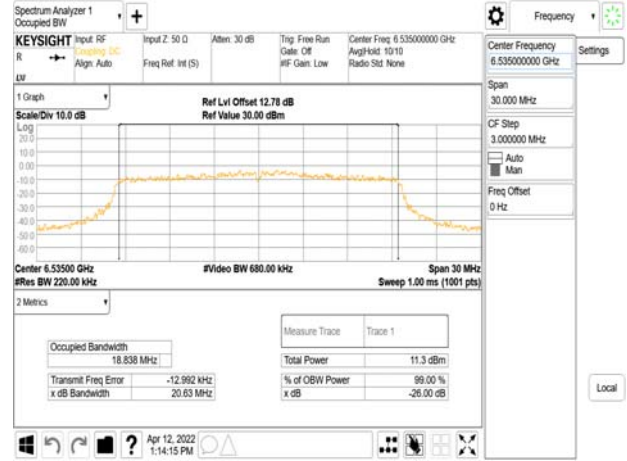
802.11ax_20MHz_Chain0_6515MHz



802.11ax_20MHz_Chain0_6435MHz



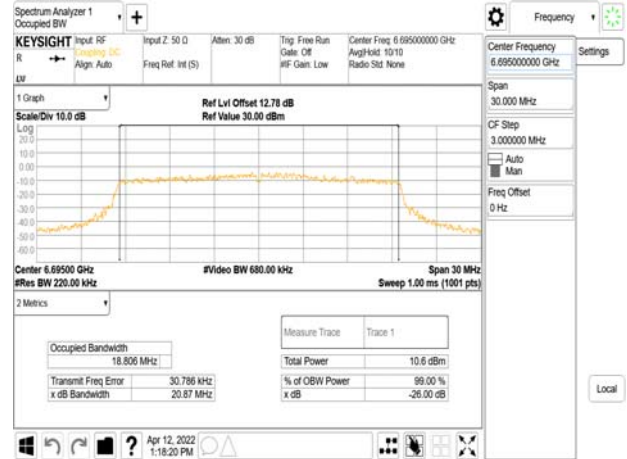
802.11ax_20MHz_Chain0_6535MHz



802.11ax_20MHz_Chain0_6475MHz



802.11ax_20MHz_Chain0_6695MHz



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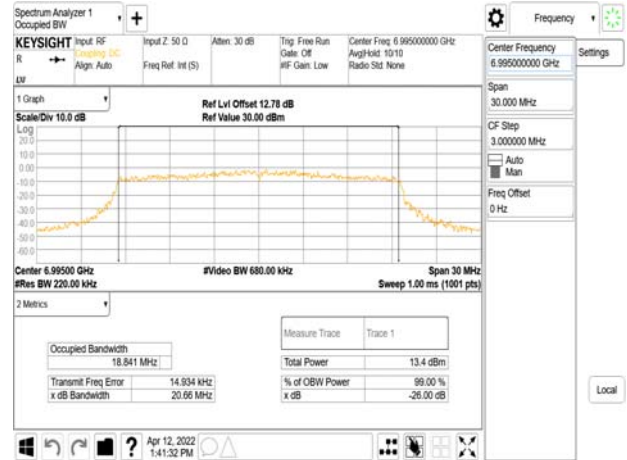
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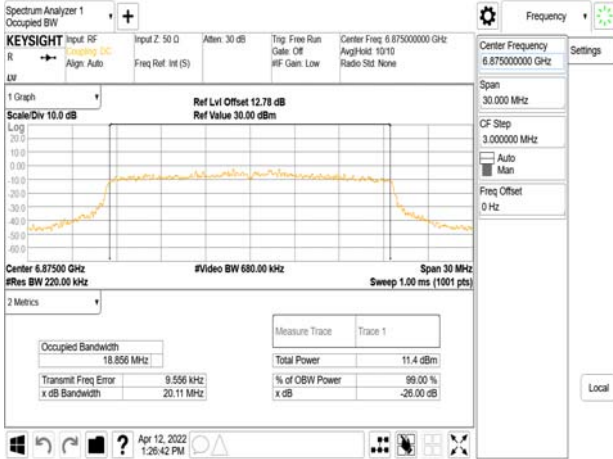
802.11ax_20MHz_Chain0_6855MHz



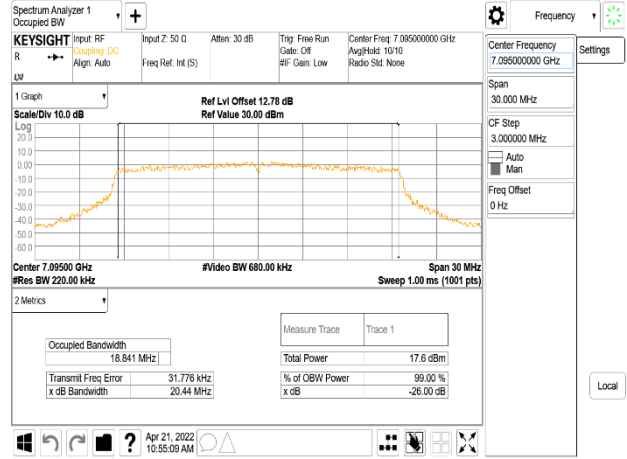
802.11ax_20MHz_Chain0_6995MHz



802.11ax_20MHz_Chain0_6875MHz



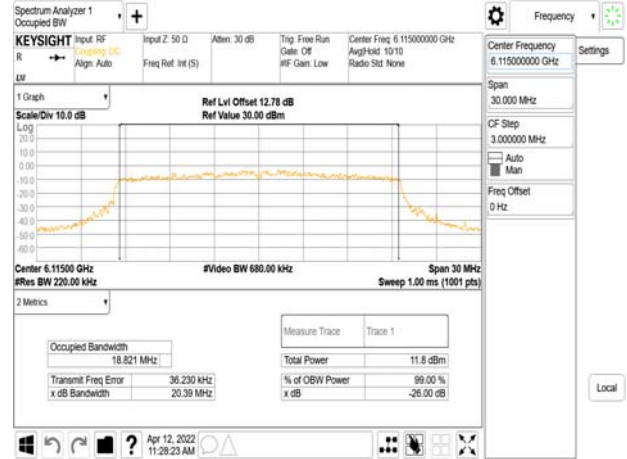
802.11ax_20MHz_Chain0_7095MHz



802.11ax_20MHz_Chain0_6895MHz



802.11ax_20MHz_Chain1_6115MHz



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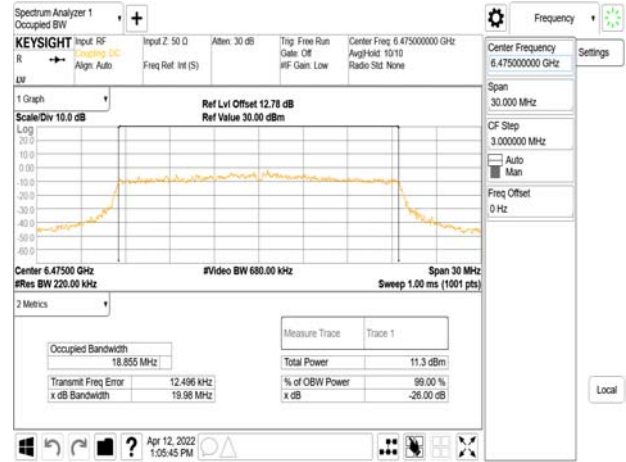
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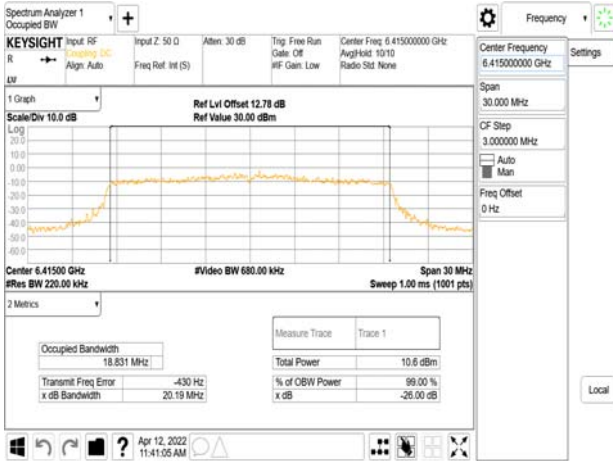
802.11ax_20MHz_Chain1_6275MHz



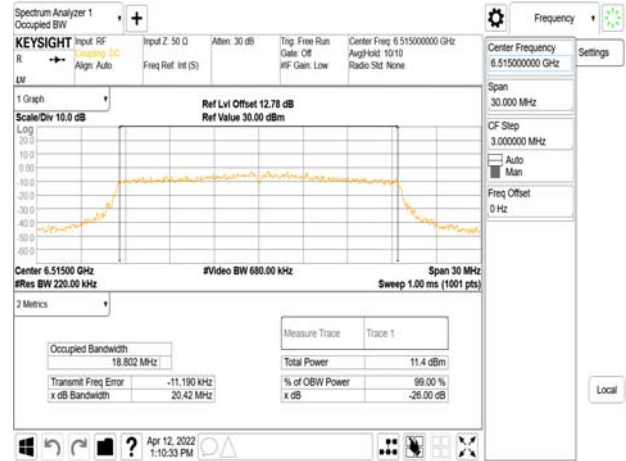
802.11ax_20MHz_Chain1_6475MHz



802.11ax_20MHz_Chain1_6415MHz



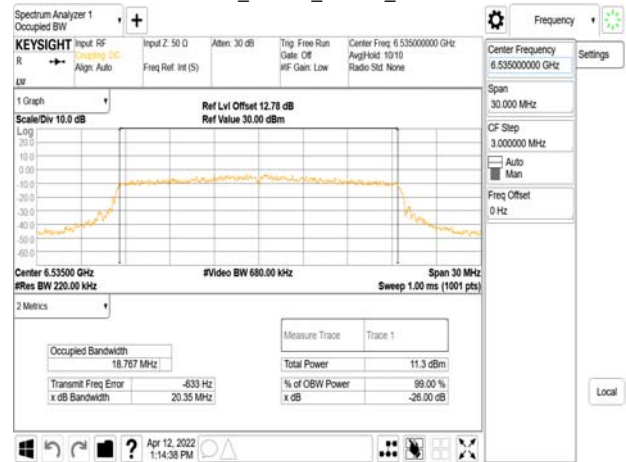
802.11ax_20MHz_Chain1_6515MHz



802.11ax_20MHz_Chain1_6435MHz



802.11ax_20MHz_Chain1_6535MHz



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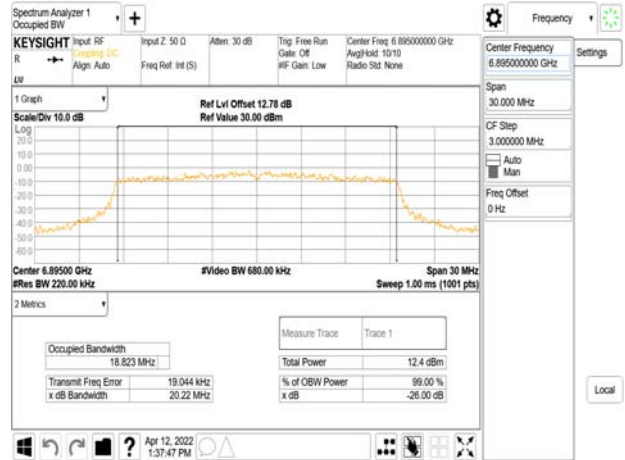
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802.11ax_20MHz_Chain1_6695MHz



802.11ax_20MHz_Chain1_6895MHz



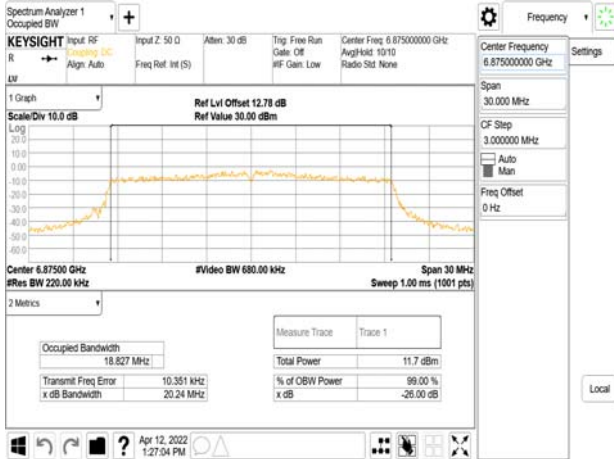
802.11ax_20MHz_Chain1_6855MHz



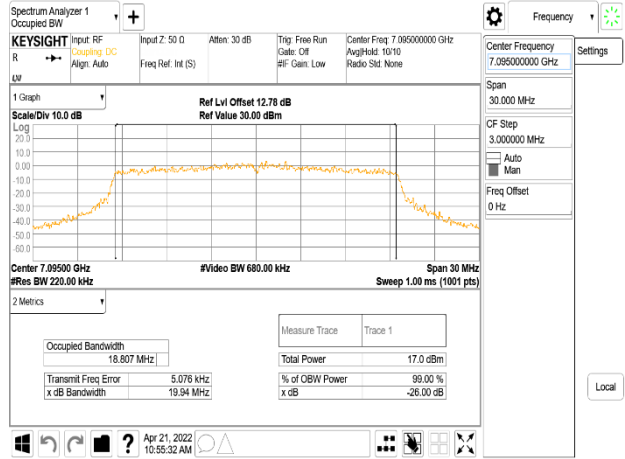
802.11ax_20MHz_Chain1_6995MHz



802.11ax_20MHz_Chain1_6875MHz



802.11ax_20MHz_Chain1_7095MHz

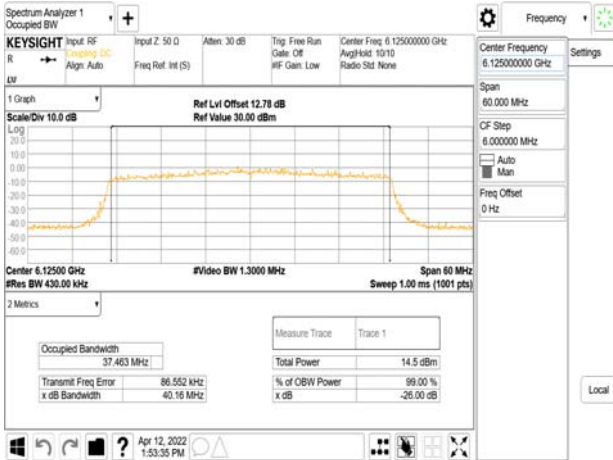


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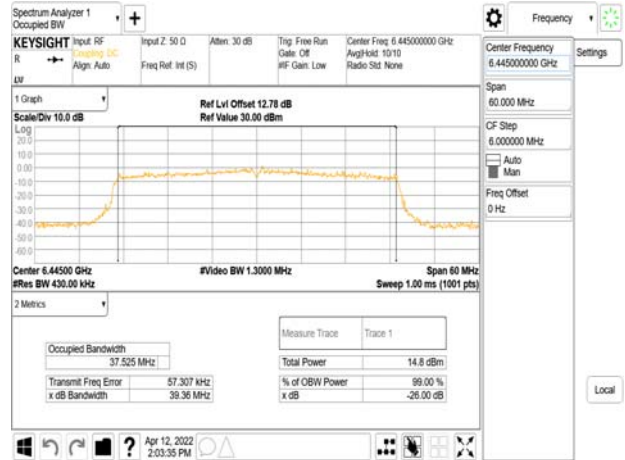
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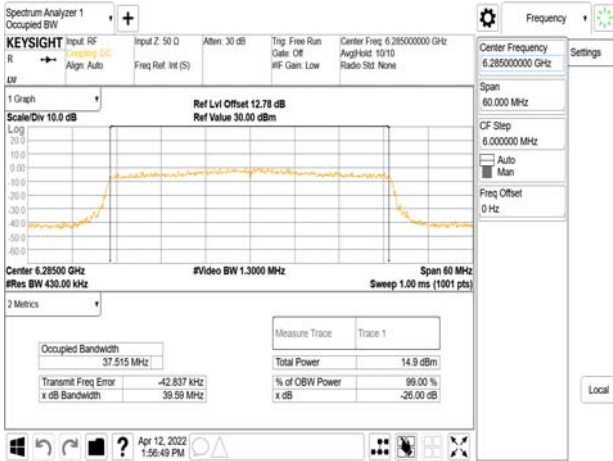
802.11ax_40MHz_Chain0_6125MHz



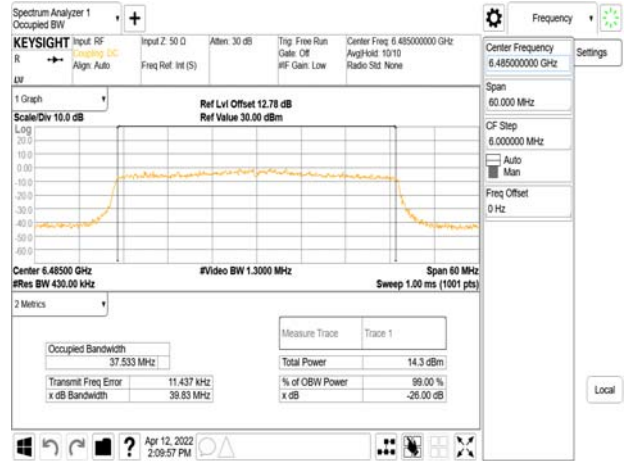
802.11ax_40MHz_Chain0_6445MHz



802.11ax_40MHz_Chain0_6285MHz



802.11ax_40MHz_Chain0_6485MHz



802.11ax_40MHz_Chain0_6405MHz



802.11ax_40MHz_Chain0_6525MHz

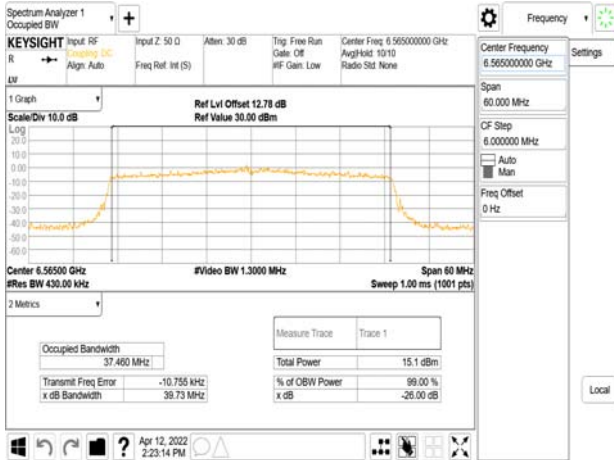


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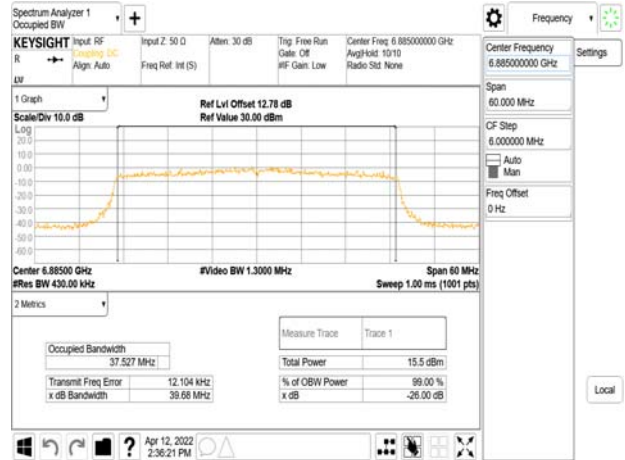
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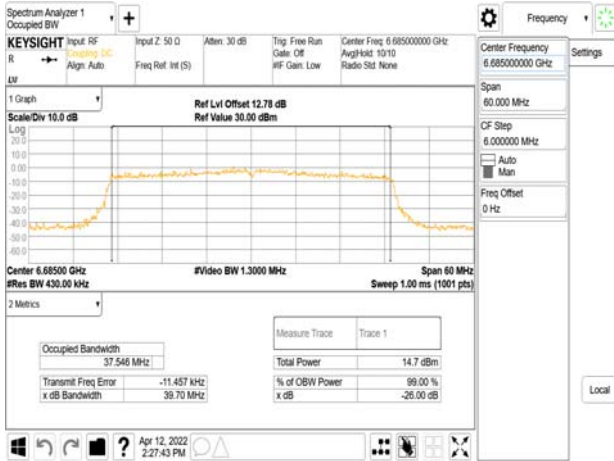
802.11ax_40MHz_Chain0_6565MHz



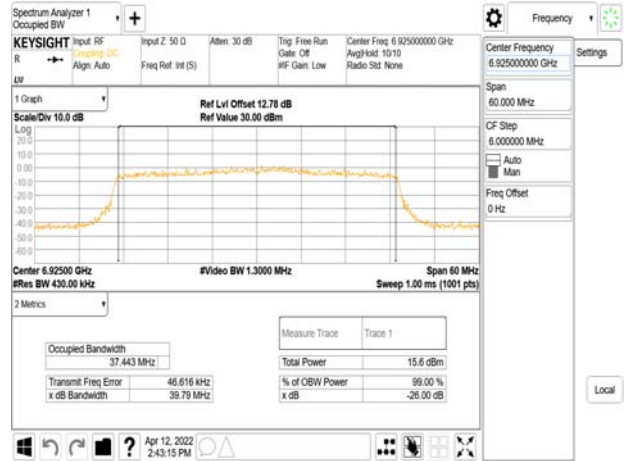
802.11ax_40MHz_Chain0_6885MHz



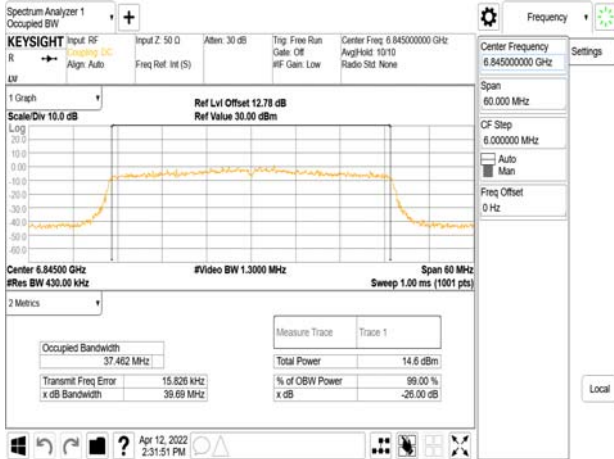
802.11ax_40MHz_Chain0_6685MHz



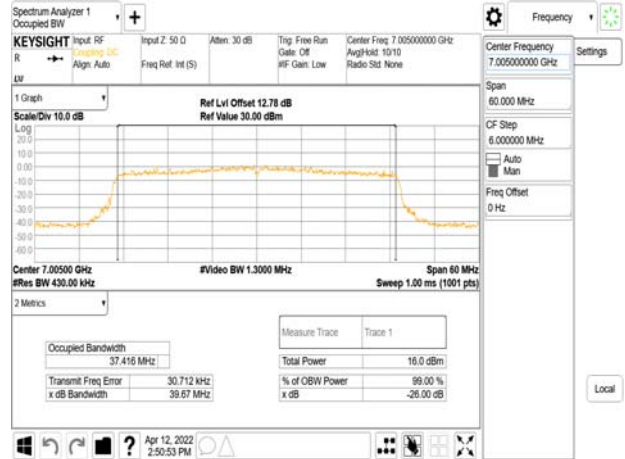
802.11ax_40MHz_Chain0_6925MHz



802.11ax_40MHz_Chain0_6845MHz



802.11ax_40MHz_Chain0_7005MHz

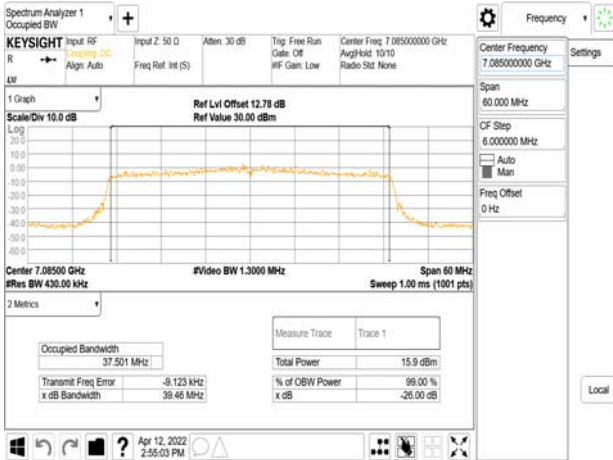


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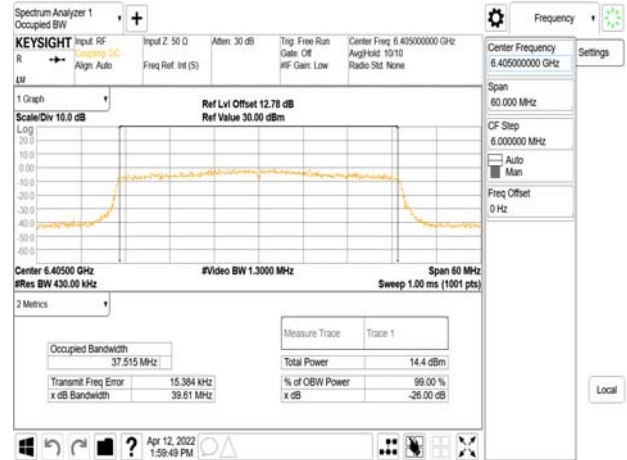
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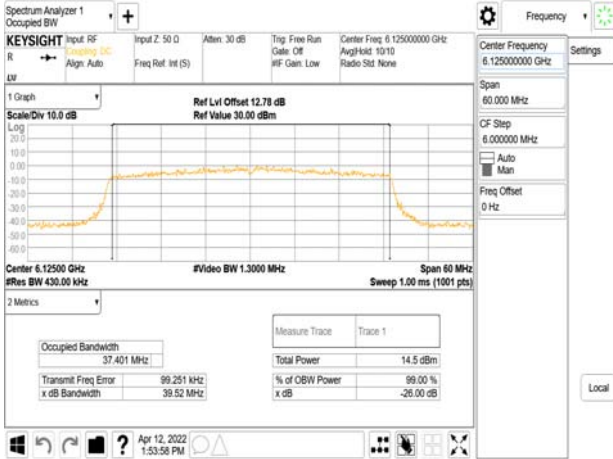
802.11ax_40MHz_Chain0_7085MHz



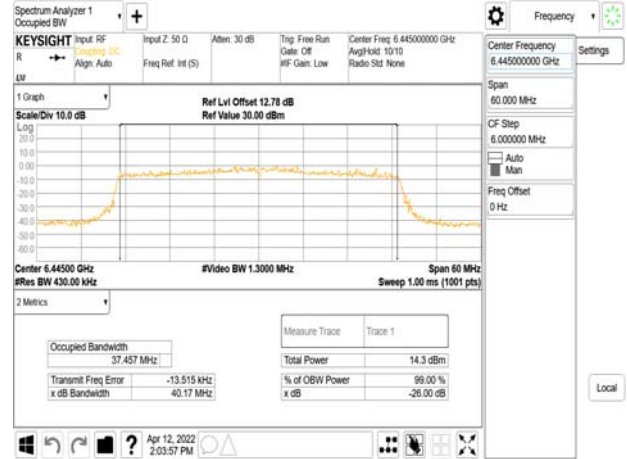
802.11ax_40MHz_Chain1_6405MHz



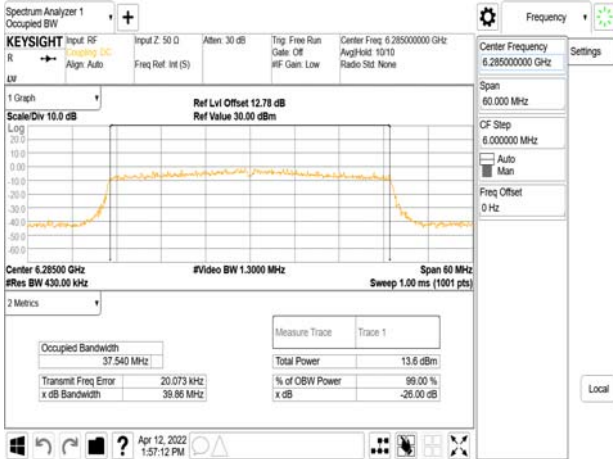
802.11ax_40MHz_Chain1_6125MHz



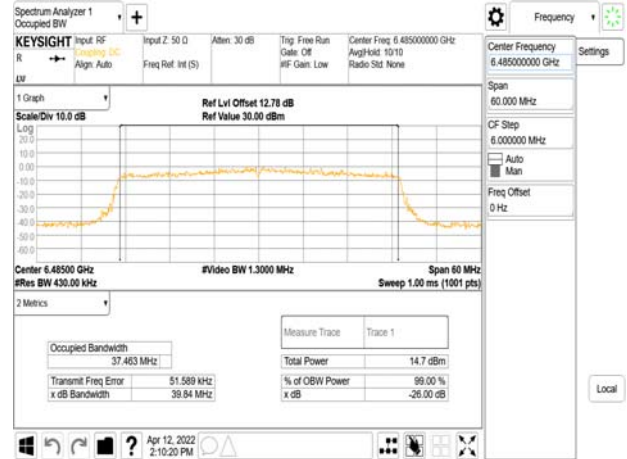
802.11ax_40MHz_Chain1_6445MHz



802.11ax_40MHz_Chain1_6285MHz



802.11ax_40MHz_Chain1_6485MHz



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