

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: ClickShare
Applicant: Barco NV
President Kennedypark 35 8500 Kortrijk Belgium
Manufacturer: Barco NV
President Kennedypark 35 8500 Kortrijk Belgium
Brand Name: Barco
Model No.: CSBTN005
Report Number: TERF2505001675ER
FCC ID 2AAED-CSBTN005
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2505001682ER, for more details please refer to section 3 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number TERF2505001682ER, for more details please refer to section 3 in this report.
Issue Date: July 2, 2025

Approved By

Jim Chang

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
TERF2505001675ER	00	Original	July 2, 2025	Susan Lin	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description:	ClickShare
Brand Name:	Barco
Model No.:	CSBTN005
Hardware Version:	Barco_Furitesse_DVT2_PLS0000000061_20250214_1
Firmware Version:	5.15.47-mtk+g-usi-v2.4-87e4e4a45d60
EUT Series No.:	1200602574, 1200602587, 1200602570
Power Supply:	5 Vdc from USB port
Test Software (Name/Version):	default (myftm command)

1.2 Modulation & Data Rate

Modulation type:	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps
	802.11ax_HE160: up to 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	USI	ANT 1	US5990-12-002-C	5925-6425	2.9
				6425-6525	2.29
				6525-6875	2.56
				6875-7125	2.49
		ANT 2	US5990-12-001-C	5925-6425	1.78
				6425-6525	1.41
				6525-6875	1.67
				6875-7125	1.76

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Rated Power

WLAN 6E

Mode	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
802.11ax_HE20	5955~6415	24	7.17 dBm
	6435~6515	5	6.74 dBm
	6535~6875	18	7.06 dBm
	6895~7095	11	7.06 dBm
802.11ax_HE40	5965~6405	12	9.82 dBm
	6445~6525	3	9.38 dBm
	6565~6845	8	10.28 dBm
	6885~7085	6	9.58 dBm
802.11ax_HE80	5985~6385	6	11.82 dBm
	6465	1	10.93 dBm
	6545~6865	5	13.30 dBm
	6945~7025	2	12.08 dBm
802.11ax_HE160	6025~6345	3	14.91 dBm
	6505	1	13.42 dBm
	6665~6825	2	14.68 dBm
	6985	1	14.04 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 6 GHz EMC Measurement v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

Temperature:	19-23	°C	Relative Humidity:	58-85	%
Test site	Conducted 2		Test Start:	05/14/2025	
Test Engineer:	Dannis Chen		Test Done:	06/12/2025	

1.7 Special Accessories

There are no special accessories used while test was conducted.

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1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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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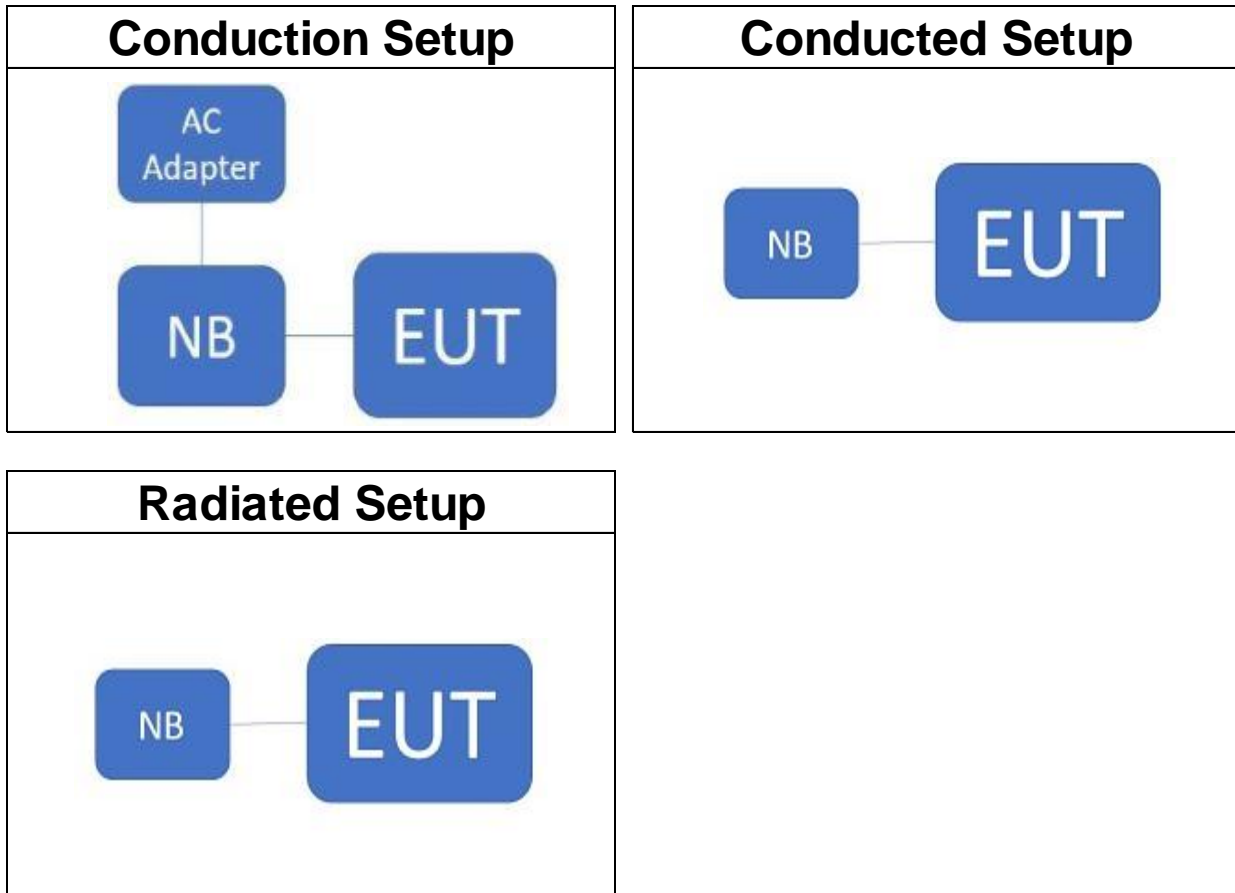
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2.5 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	HP	TPN-AA06	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L480	PF-1M4D8L 19-/03	N/A	N/A

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Compliant	
§15.407(a)(11) §2.1049	Emission Bandwidth	Compliant	
§15.407(a)(4~9)	Maximum Conducted Output Power	Compliant	
§15.407(a)(4~9)	Power Spectral Density	Compliant	
§15.407(b)(7),(11)	In-band emission	Compliant	
§15.205 §15.209 §15.407(b)(6), (b)(8),(9),(10)	Undesirable Radiated Emissions	Compliant	
§15.407(d)(6)	contention-based protocol	Compliant	
§15.407(a)(7)(8)	Test Demonstration of Proper Power Adjustment based on Associated AP	NA Device only associates with indoor AP	
§15.407(c)	Transmission in case of Absence of Information	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2505001682ER.

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025
5	5975	53	6215	11	6005	23	6065	47	6185
9	5995	57	6235	19	6045	39	6145	79	6345
13	6015	61	6255	27	6085	55	6225		
17	6035	65	6275	35	6125	71	6305		
21	6055	69	6295	43	6165	87	6385		
25	6075	73	6315	51	6205				
29	6095	77	6335	59	6245				
33	6115	81	6355	67	6285				
37	6135	85	6375	75	6325				
41	6155	89	6395	83	6365				
45	6175	93	6415	91	6405				

UNII-6 6425~6525 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
97	6435	99	6445	103	6465	111	6505
101	6455	107	6485				
105	6475	115	6525				
109	6495						
113	6515						

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq.	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665
121	6555	157	6735	131	6605	135	6625	175	6825
125	6575	161	6755	139	6645	151	6705		
129	6595	165	6775	147	6685	167	6785		
133	6615	169	6795	155	6725	183	6865		
137	6635	173	6815	163	6765				
141	6655	177	6835	171	6805				
145	6675	181	6855	179	6845				
149	6695	185	6875						

UNII-8 6875~7125 MHz

20MHz		40MHz		80MHz		160MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
189	6895	187	6885	199	6945	207	6985
193	6915	195	6925	215	7025		
197	6935	203	6965				
201	6955	211	7005				
205	6975	219	7045				
209	6995	227	7085				
213	7015						
217	7035						
221	7055						
225	7075						
229	7095						

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4.2 The Worst Test Modes and Channel Details

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

Mode		Transmission Chain							Single Transmission Spatial		Multiple Transmission Spatial		
V	802.11 a	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2		Ch3		1TX	V	2TX
	802.11 be		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	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7095	189 to 229	189,209,229				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/S67	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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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
802.11ax20	5955~6415	1 to 93	45	OFDMA	MCS0	2Tx
	6435~6515	97 to 113	105	OFDMA		
	6535~6875	117 to 185	149	OFDMA		
	6895~7115	189 to 233	209	OFDMA		

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11ax20	5955~6415	1 to 93	1,45,93	OFDMA	MCS0	full,26/0,52/37,106/53,26/8,52/40,106/54	2Tx
	6435~6515	97 to 113	97,105,113	OFDMA			
	6535~6875	117 to 185	117,149,181	OFDMA			
	6895~7115	189 to 233	185,189,209,233	OFDMA			
802.11ax40	5955~6415	1 to 93	3,43,91	OFDMA	MCS0	full,242/61,242/62	2Tx
	6435~6515	97 to 113	99,107	OFDMA			
	6535~6875	117 to 185	115,123,147,179	OFDMA			
	6895~7115	189 to 233	187,195,211,227	OFDMA			
802.11ax80	5985~6385	7 to 87	7,39,87	OFDMA	MCS0	full,484/65,484/66	2Tx
	6465	103	103	OFDMA			
	6545~6865	119 to 183	119,135,151,167,183	OFDMA			
	6945~7025	199 to 215	199,215	OFDMA			
802.11ax160	6025~6345	15 to 79	15,47,79	OFDMA	MCS0	full,996/67,996/s67	2Tx
	6505	111	111	OFDMA			
	6665~6825	143 to 175	143,175	OFDMA			
	6985	207	207	OFDMA			

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
Emission Bandwidth	+/-	1.38	Hz
Output Power measurement	+/-	0.97	dB
Peak Power Spectral Density Measurement	+/-	0.61	dB
Frequency Stability	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

Note:

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2024	06/21/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025
Power Meter	Anritsu	ML2496A	2138003	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911393	10/09/2024	10/08/2025
Power Sensor	Anritsu	MA2411B	1911394	10/09/2024	10/08/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

6.3 Contention based protocol measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	Mini-Circuits	BLK-18-S+	4	12/11/2024	12/10/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/25/2024	06/24/2025
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/08/2025	03/07/2026
Manual Attenuator	HP	8494B	2812A17605+3308 A22470	12/11/2024	12/10/2025
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/08/2025	03/07/2026
Splitter	RF-Lambda	RFLT2W1G18G	11-JSPF412-020	12/11/2024	12/10/2025
Splitter	RF-Lambda	RFLT4W1G18G	SPCD10-010	12/11/2024	12/10/2025
Splitter	Titan	T0510E4W118Q	22015177	12/11/2024	12/10/2025
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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6.4 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
8.5G High Pass Filter	Titan	T04H85002500060 S01	23040703-40	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 5925-6425	Woken	WFIL-N5925-6425F	WRGBAFWC2F9	12/11/2024	12/10/2025
Band Reject Filter 6425-6525	Woken	WFIL-N6425-6525F	WRGBAFWC2J1	12/11/2024	12/10/2025
Band Reject Filter 6525-6875	Woken	WFIL-N6525-6875F	WRGBAFWC2J4	12/11/2024	12/10/2025
Band Reject Filter 6875-7125	Woken	WFIL-N6875-7125F	WRGBAFWC2J9	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/ 4PEA+221106+760 96/6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	08/30/2024	08/29/2025
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/05/2025	02/04/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

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

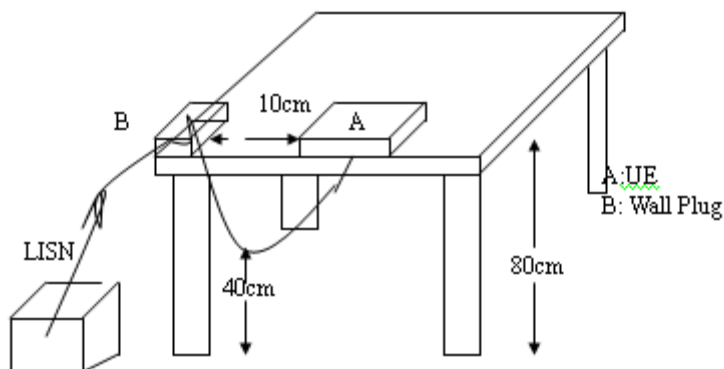
Note

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

7.2 EUT Setup:

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

7.3 Test Setup



7.4 Measurement Procedure

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

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7.5 Measurement Result

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

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 :TERF2505001682ER

Test Site :Conduction 1

Operation Mode :WLAN6G

Test Date :2025-06-13

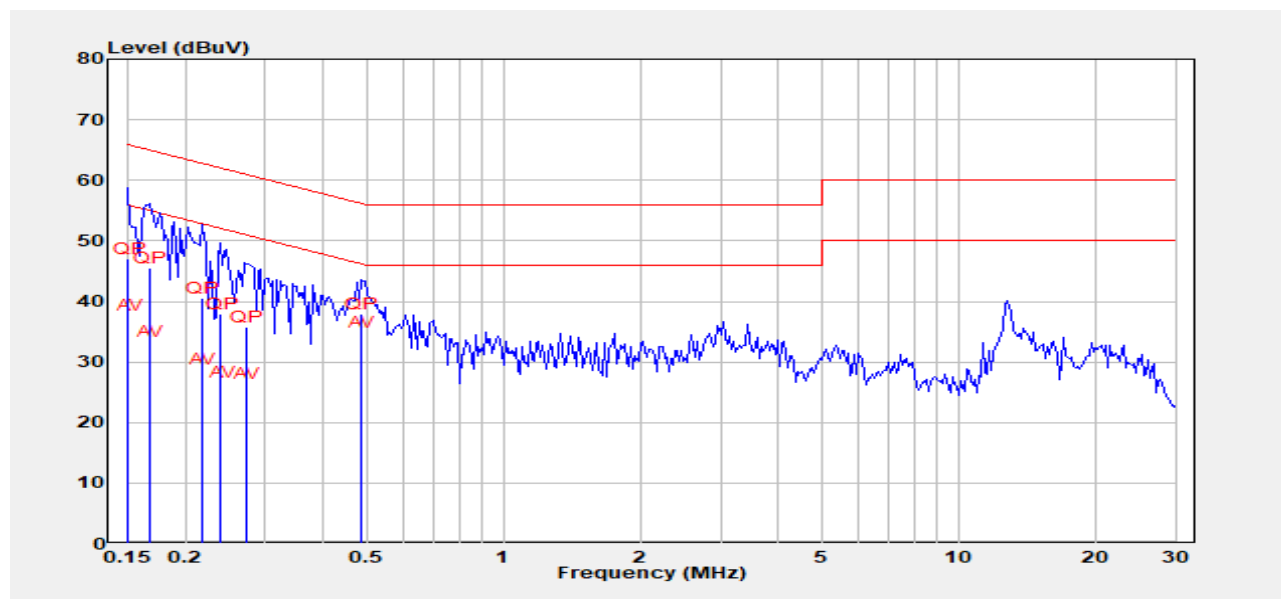
Power :120V/60Hz

Temp./Humi. :24.5°C/66%

Probe :L

Engineer :Nick Lin

Note: :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	Average	27.51	10.13	37.64	56.00	-18.36
0.150	QP	36.97	10.13	47.10	66.00	-18.90
0.167	Average	23.32	10.13	33.45	55.12	-21.67
0.167	QP	35.47	10.13	45.60	65.12	-19.52
0.217	Average	18.67	10.13	28.80	52.92	-24.12
0.217	QP	30.43	10.13	40.56	62.92	-22.36
0.239	Average	16.52	10.14	26.66	52.13	-25.47
0.239	QP	27.91	10.14	38.05	62.13	-24.08
0.272	Average	16.34	10.14	26.48	51.07	-24.59
0.272	QP	25.55	10.14	35.69	61.07	-25.38
0.486	Average	24.69	10.16	34.85	46.23	-11.38
0.486	QP	27.72	10.16	37.88	56.23	-18.35

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Report Number :TERF2505001682ER

Test Site :Conducttion 1

Operation Mode :WLAN6G

Test Date :2025-06-13

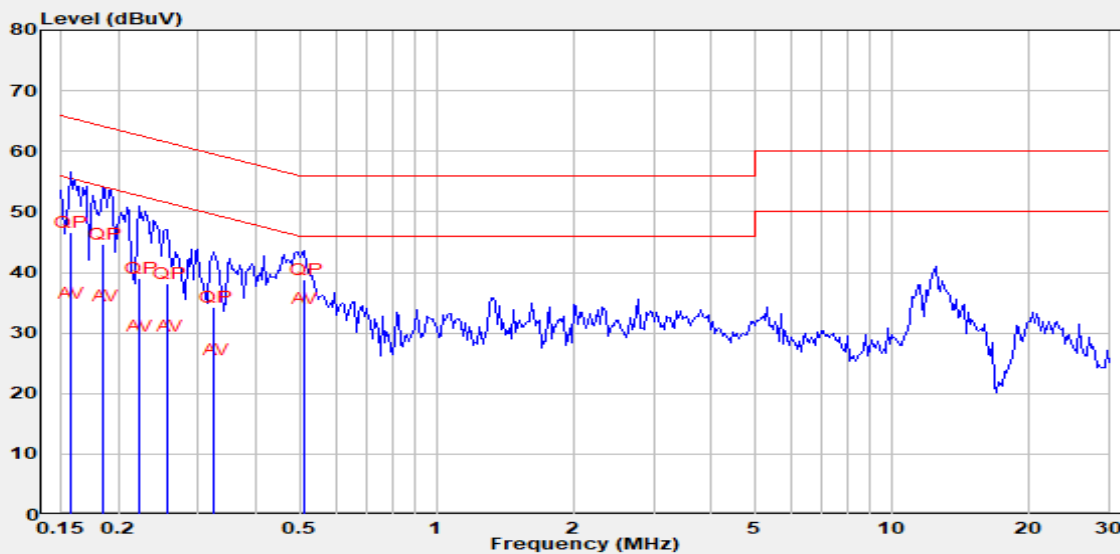
Power :120V/60Hz

Temp./Humi. :24.5°C/66%

Probe :N

Engineer :Nick Lin

Note :



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	Average	24.83	10.12	34.95	55.65	-20.70
0.156	QP	36.54	10.12	46.66	65.65	-18.99
0.185	Average	24.43	10.12	34.55	54.24	-19.69
0.185	QP	34.47	10.12	44.59	64.24	-19.65
0.222	Average	19.33	10.12	29.45	52.74	-23.29
0.222	QP	28.97	10.12	39.09	62.74	-23.65
0.258	Average	19.32	10.13	29.45	51.51	-22.06
0.258	QP	28.01	10.13	38.14	61.51	-23.37
0.325	Average	15.43	10.14	25.57	49.57	-24.00
0.325	QP	24.11	10.14	34.25	59.57	-25.32
0.513	Average	23.78	10.16	33.94	46.00	-12.06
0.513	QP	28.73	10.16	38.89	56.00	-17.11

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8 EMISSION BANDWIDTH

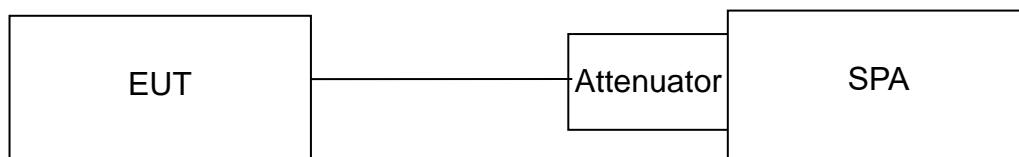
8.1 Standard Applicable

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

8.2 Measurement Procedure

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

8.3 Test Setup



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8.4 Measurement Result

8.4.1 Bandwidth

802.11ax_HE20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
1	5955	18.822	20.26	
45	6175	18.824	20.22	
93	6415	18.831	20.39	
97	6435	18.850	20.32	
105	6475	18.823	20.12	
113	6515	18.860	20.10	
117	6535	18.837	20.24	
149	6695	18.858	20.34	
181	6855	18.844	20.47	
185	6875(U-NII 7)	9.437	10.09	
185	6875(U-NII 8)	9.437	10.09	
189	6895	18.842	20.35	
209	6995	18.872	20.46	
233	7115	18.879	20.36	

802.11ax_HE20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
1	5955	18.877	20.57	
45	6175	18.873	20.41	
93	6415	18.840	20.40	
97	6435	18.887	20.30	
105	6475	18.823	20.63	
113	6515	18.882	20.42	
117	6535	18.848	20.37	
149	6695	18.827	20.14	
181	6855	18.806	20.60	
185	6875(U-NII 7)	9.444	10.25	
185	6875(U-NII 8)	9.444	10.25	
189	6895	18.830	20.21	
209	6995	18.869	20.18	
233	7115	18.831	20.18	

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802.11ax_HE40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
3	5965	37.519	39.74	
43	6165	37.510	39.47	
91	6405	37.623	39.79	
99	6445	37.494	39.33	
107	6485	37.515	39.84	
115	6525(U-NII 6)	18.774	19.97	
115	6525(U-NII 7)	18.774	19.97	
123	6565	37.559	39.95	
147	6685	37.541	39.76	
179	6845	37.706	39.59	
187	6885(U-NII 7)	8.79	9.91	
187	6885(U-NII 8)	28.790	29.91	
195	6925	37.654	39.92	
211	7005	37.565	39.54	
227	7085	37.531	39.57	

802.11ax_HE40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
3	5965	37.535	39.60	
43	6165	37.532	39.60	
91	6405	37.579	39.44	
99	6445	37.594	39.96	
107	6485	37.516	39.79	
115	6525(U-NII 6)	18.790	20.04	
115	6525(U-NII 7)	18.790	20.04	
123	6565	37.557	39.41	
147	6685	37.567	39.53	
179	6845	37.536	39.92	
187	6885(U-NII 7)	8.794	9.86	
187	6885(U-NII 8)	28.794	29.86	
195	6925	37.550	39.53	
211	7005	37.561	39.33	
227	7085	37.629	39.48	

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802.11ax_HE80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
7	5985	76.787	80.15	
39	6145	76.889	80.34	
87	6385	76.537	80.28	
103	6465	76.593	80.56	
119	6545(U-NII 6)	18.442	20.56	
119	6545(U-NII 7)	58.442	60.56	
135	6625	76.736	80.43	
151	6705	76.703	80.76	
167	6785	76.772	80.48	
183	6865(U-NII 7)	48.250	51.03	
183	6865(U-NII 8)	28.250	31.03	
199	6945	76.883	81.05	
215	7025	76.711	80.52	

802.11ax_HE80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
7	5985	76.568	80.61	
39	6145	76.904	81.16	
87	6385	76.605	80.44	
103	6465	76.712	80.86	
119	6545(U-NII 6)	18.190	20.76	
119	6545(U-NII 7)	58.190	60.76	
135	6625	76.613	80.65	
151	6705	76.810	80.96	
167	6785	76.638	80.46	
183	6865(U-NII 7)	48.411	50.35	
183	6865(U-NII 8)	28.411	30.35	
199	6945	76.418	80.46	
215	7025	76.456	80.34	

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802.11ax_HE160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
15	6025	154.56	162.4	
47	6185	154.28	163.4	
79	6345	155.10	162.5	
111	6505(U-NII 6)	97.07	101.5	
111	6505(U-NII 7)	57.07	61.5	
143	6665	154.73	162.0	
175	6825(U-NII 7)	127.66	130.9	
175	6825(U-NII 8)	27.66	30.9	
207	6985	154.64	162.5	

802.11ax_HE160_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	ITU-Code
15	6025	154.22	162.3	
47	6185	154.68	162.5	
79	6345	154.89	162.5	
111	6505(U-NII 6)	96.99	100.8	
111	6505(U-NII 7)	56.99	60.8	
143	6665	154.76	162.5	
175	6825(U-NII 7)	127.43	132.1	
175	6825(U-NII 8)	27.43	32.1	
207	6985	154.58	161.6	

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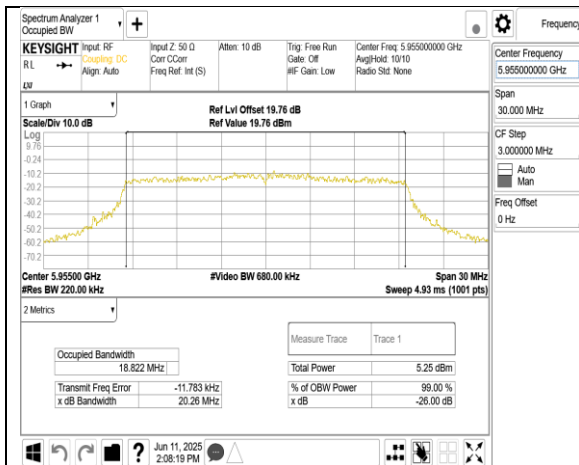
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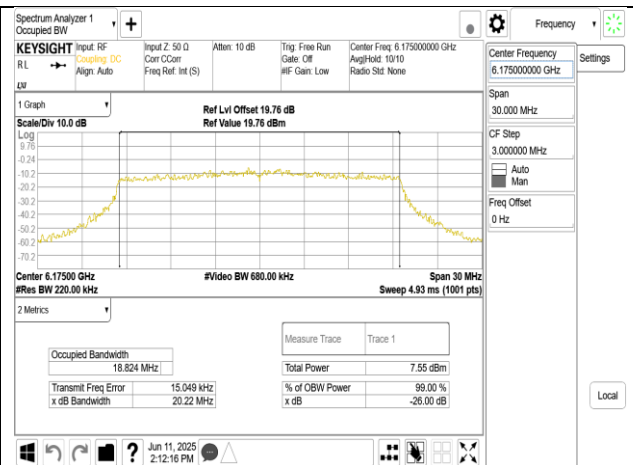
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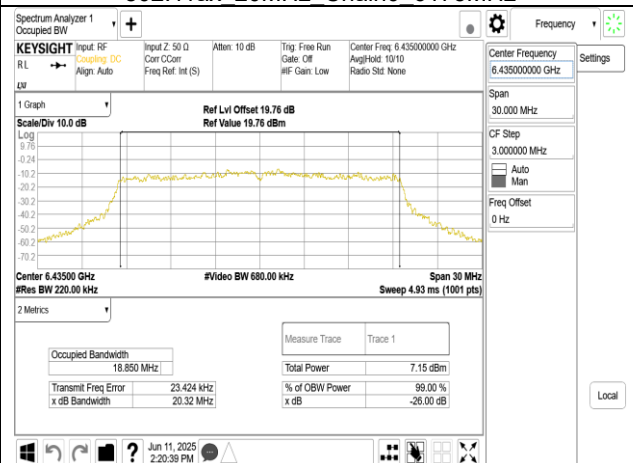
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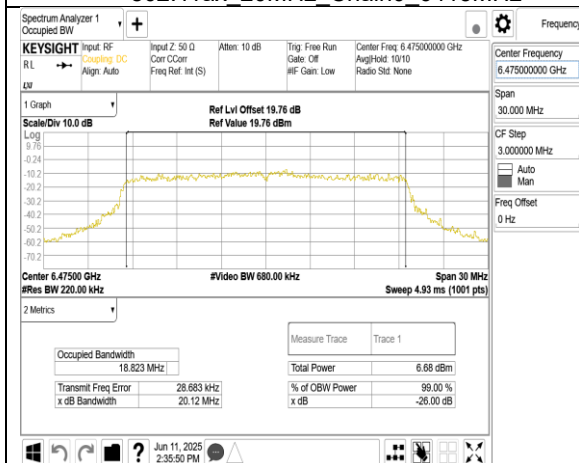
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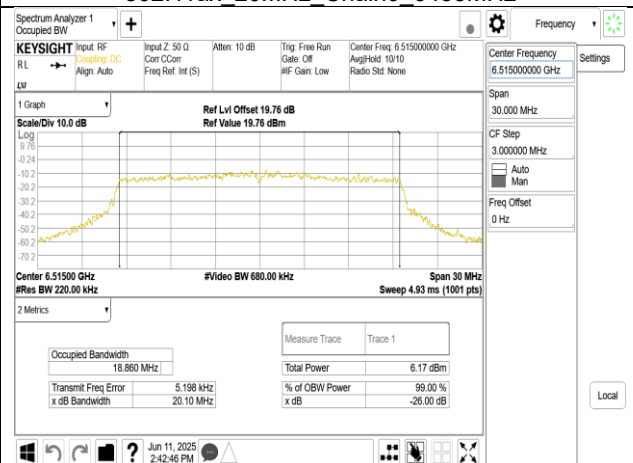
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802.11ax 20MHz Chain0 6435MHz



802.11ax 20MHz Chain0 6475MHz

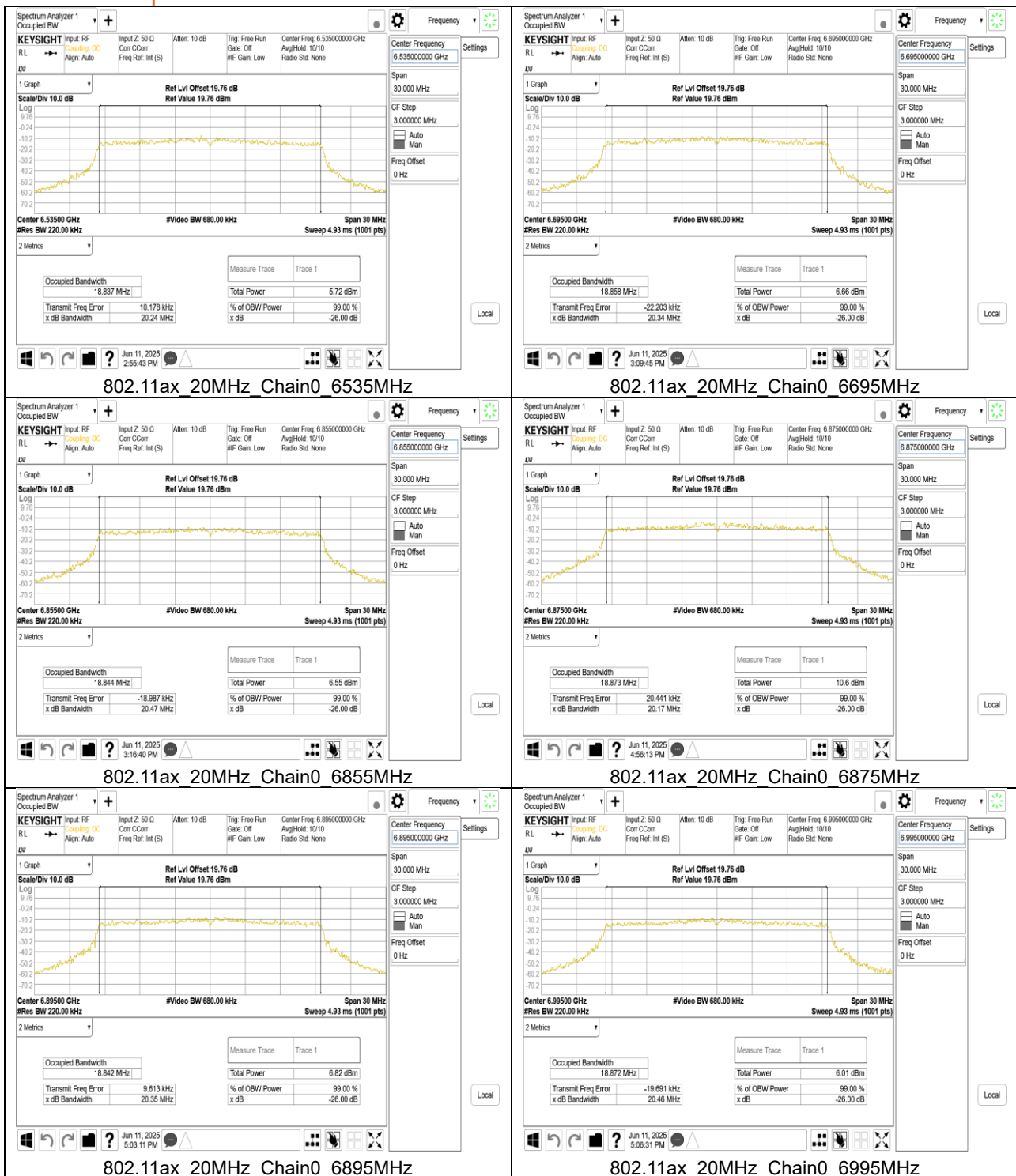


802.11ax 20MHz Chain0 6515MHz

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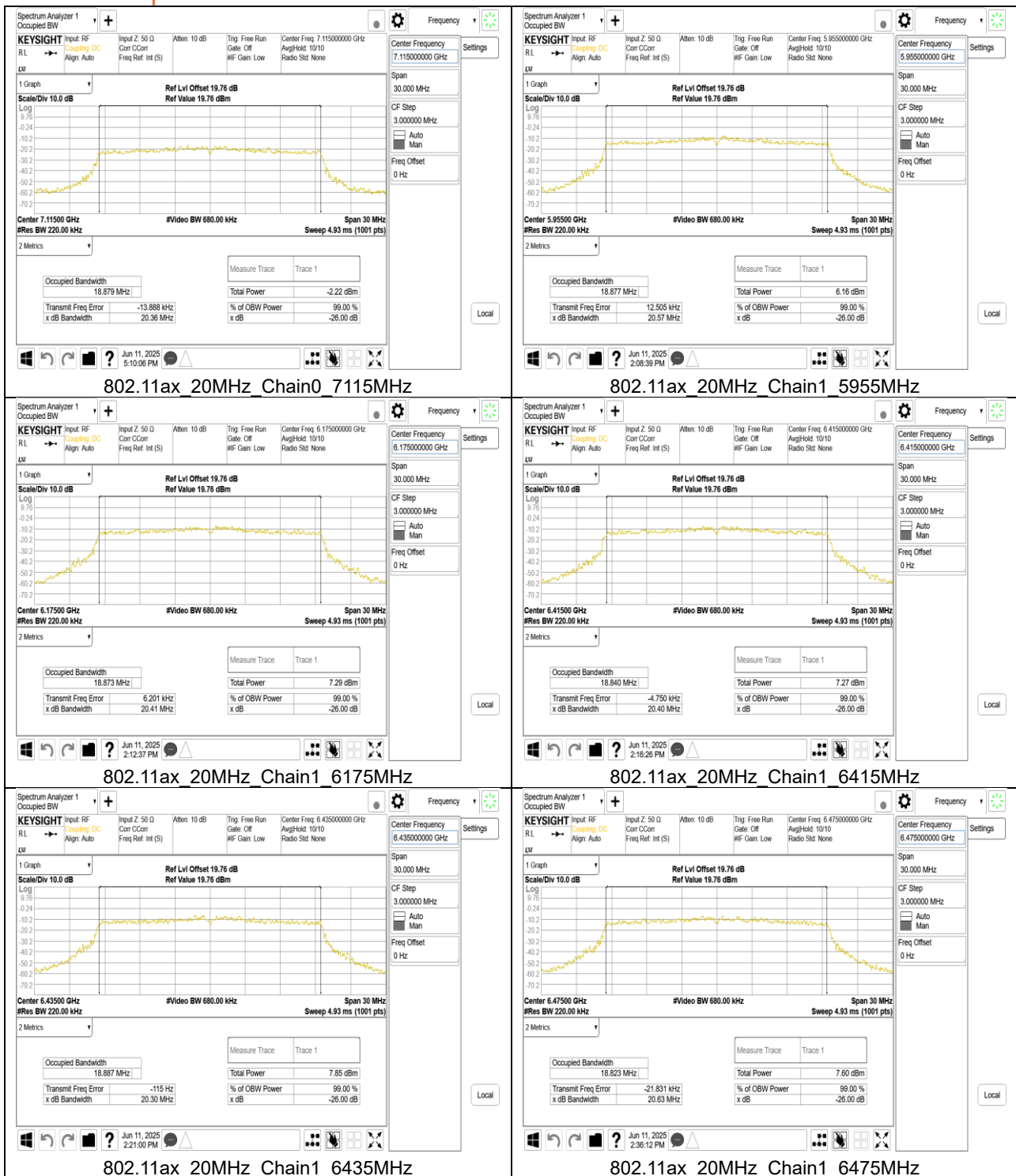
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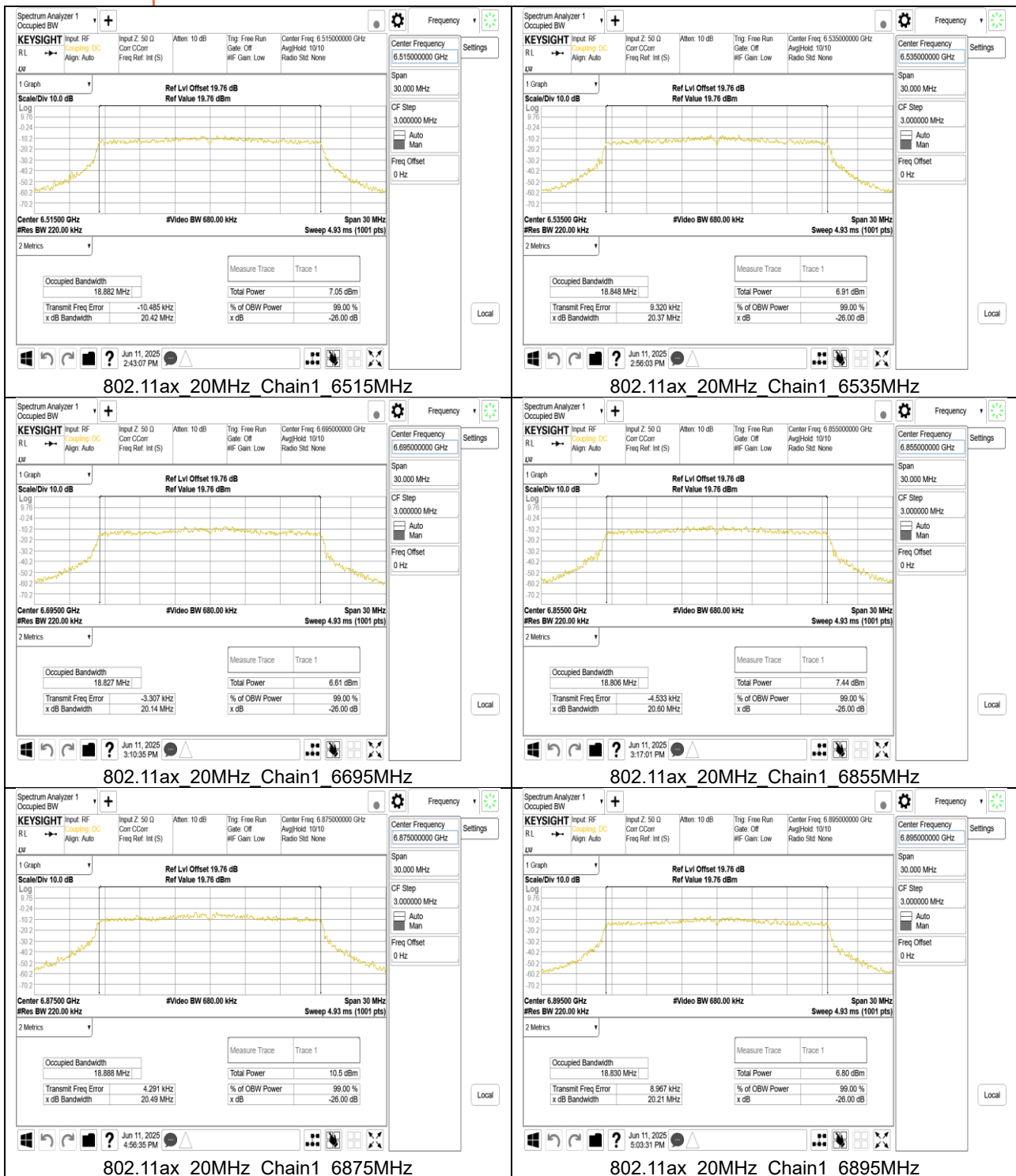
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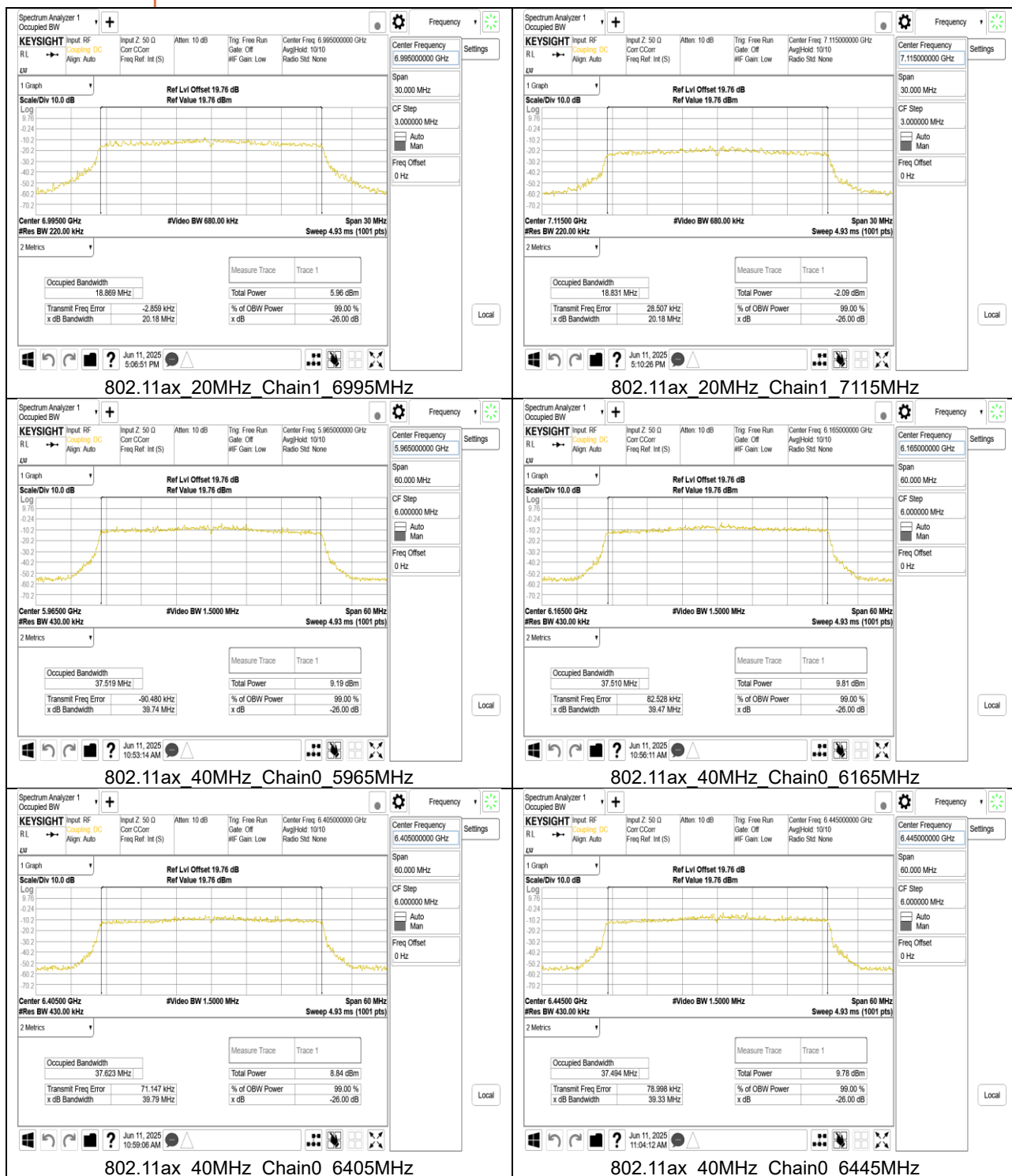
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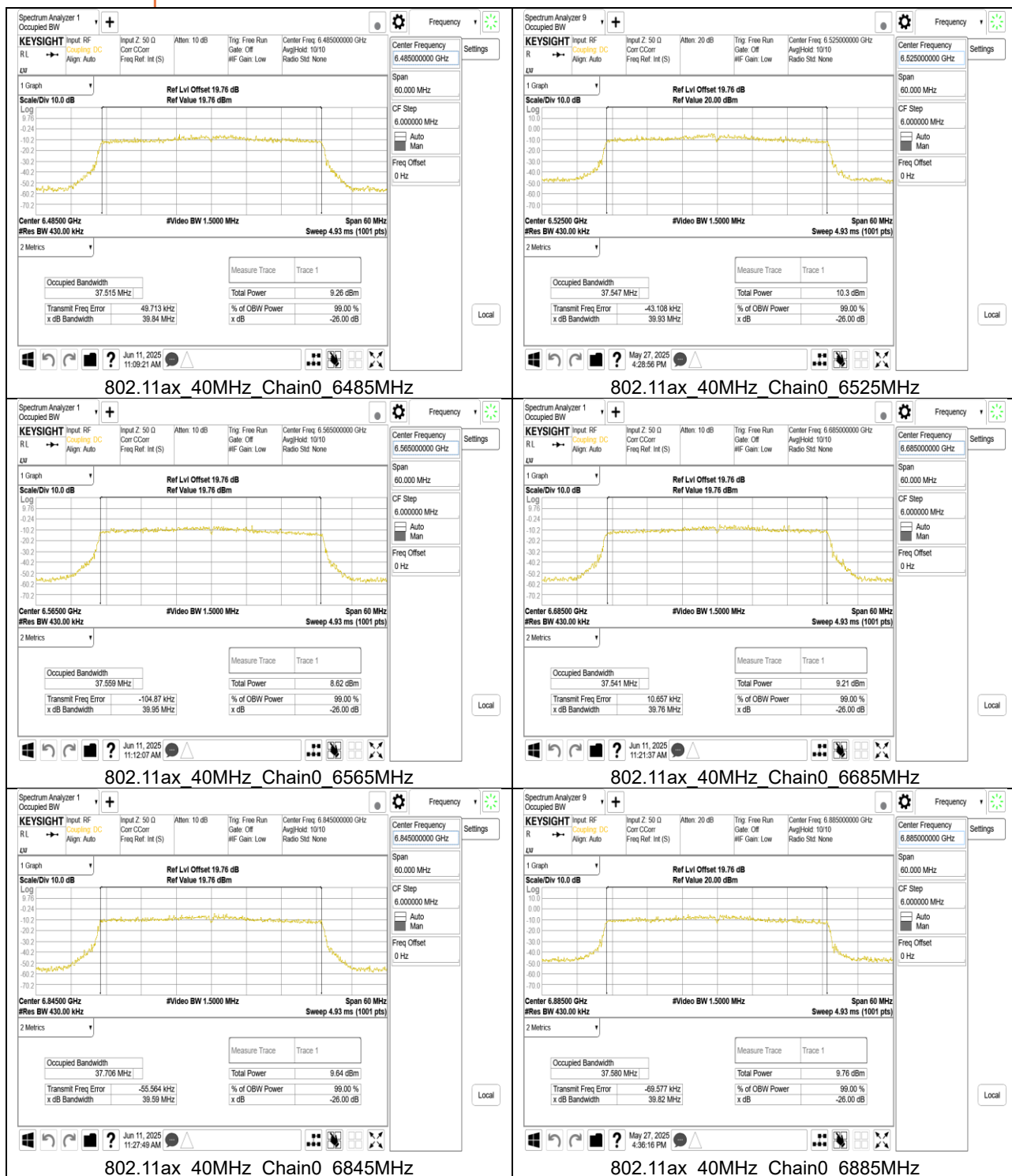
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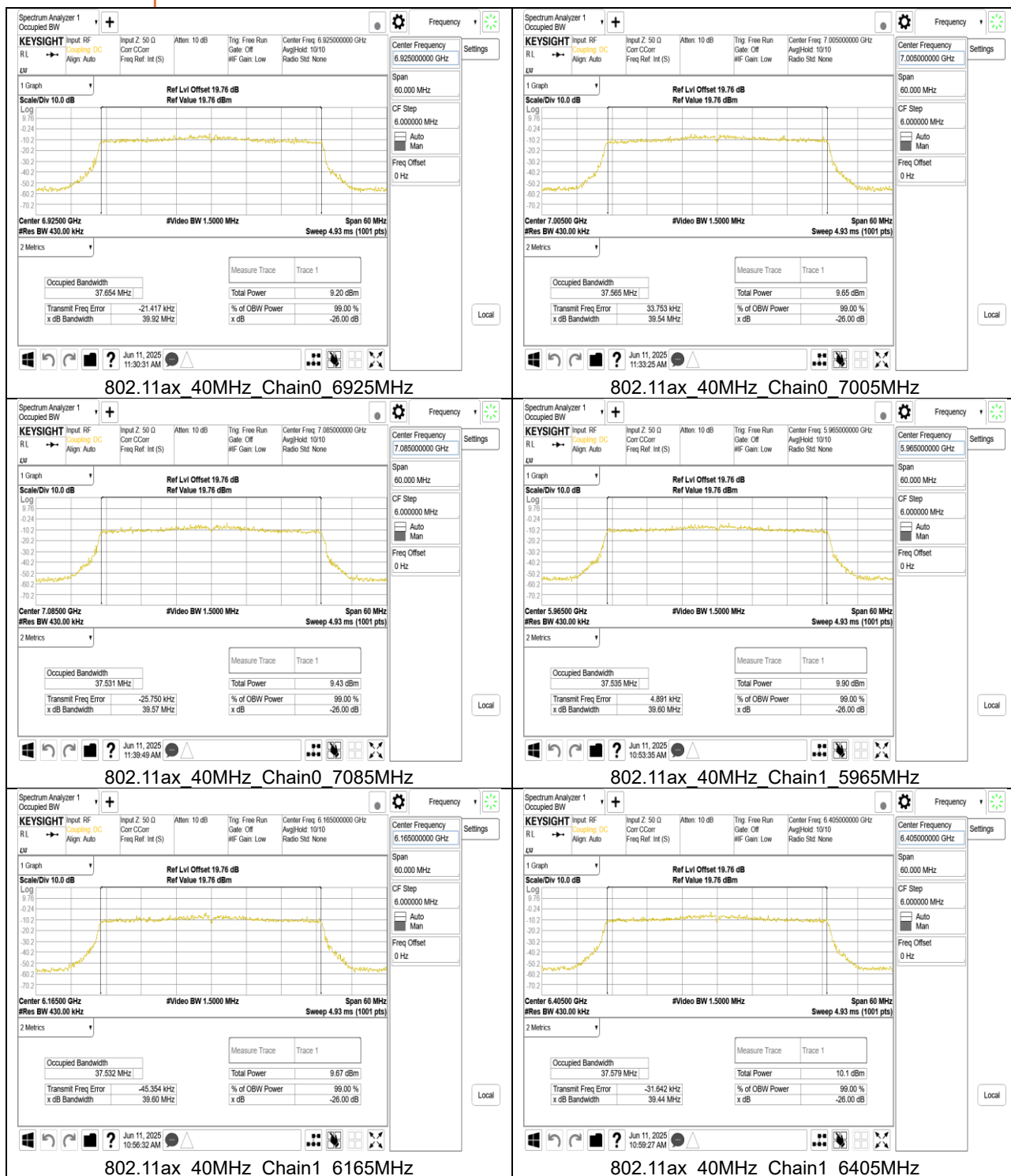
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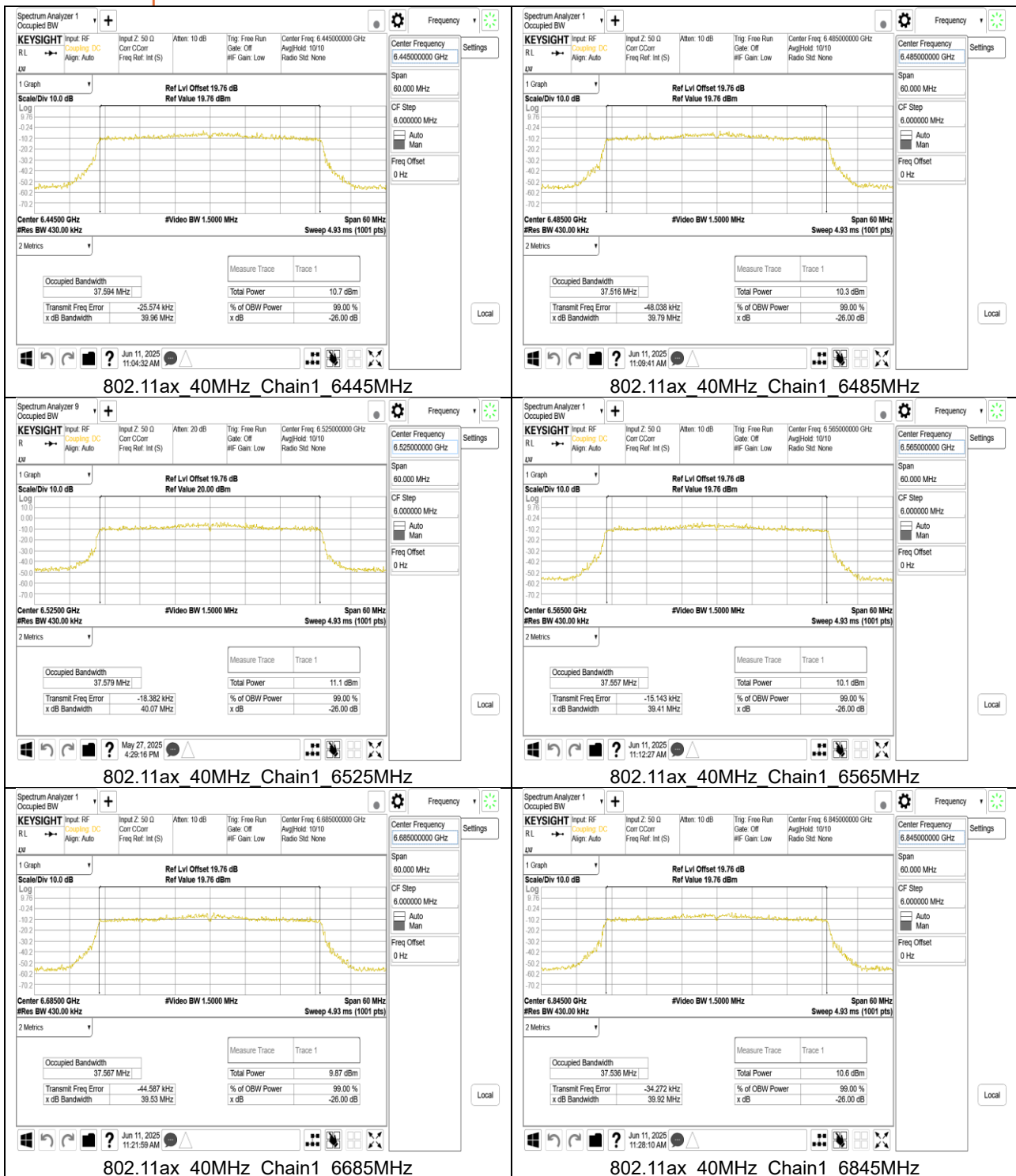
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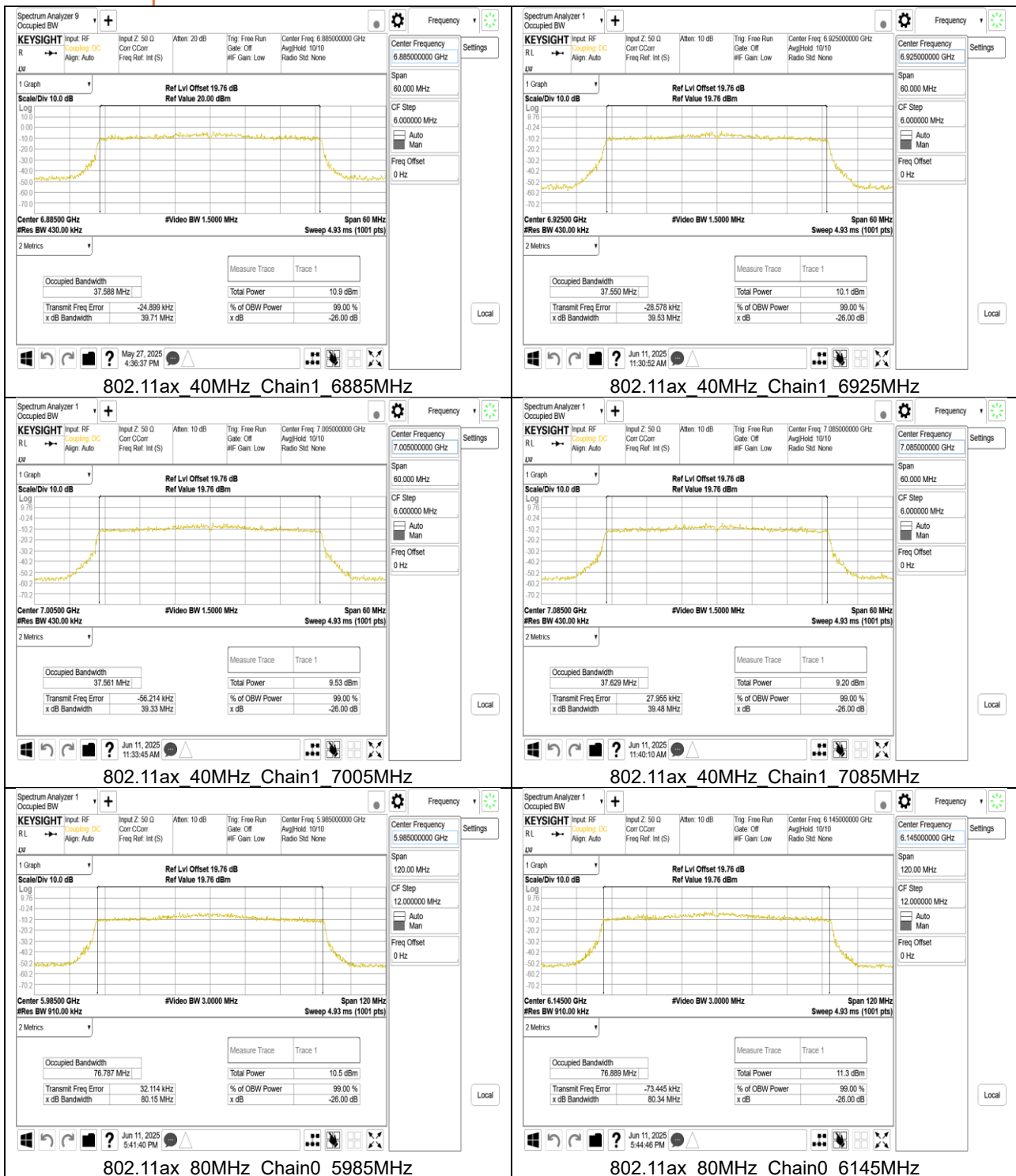
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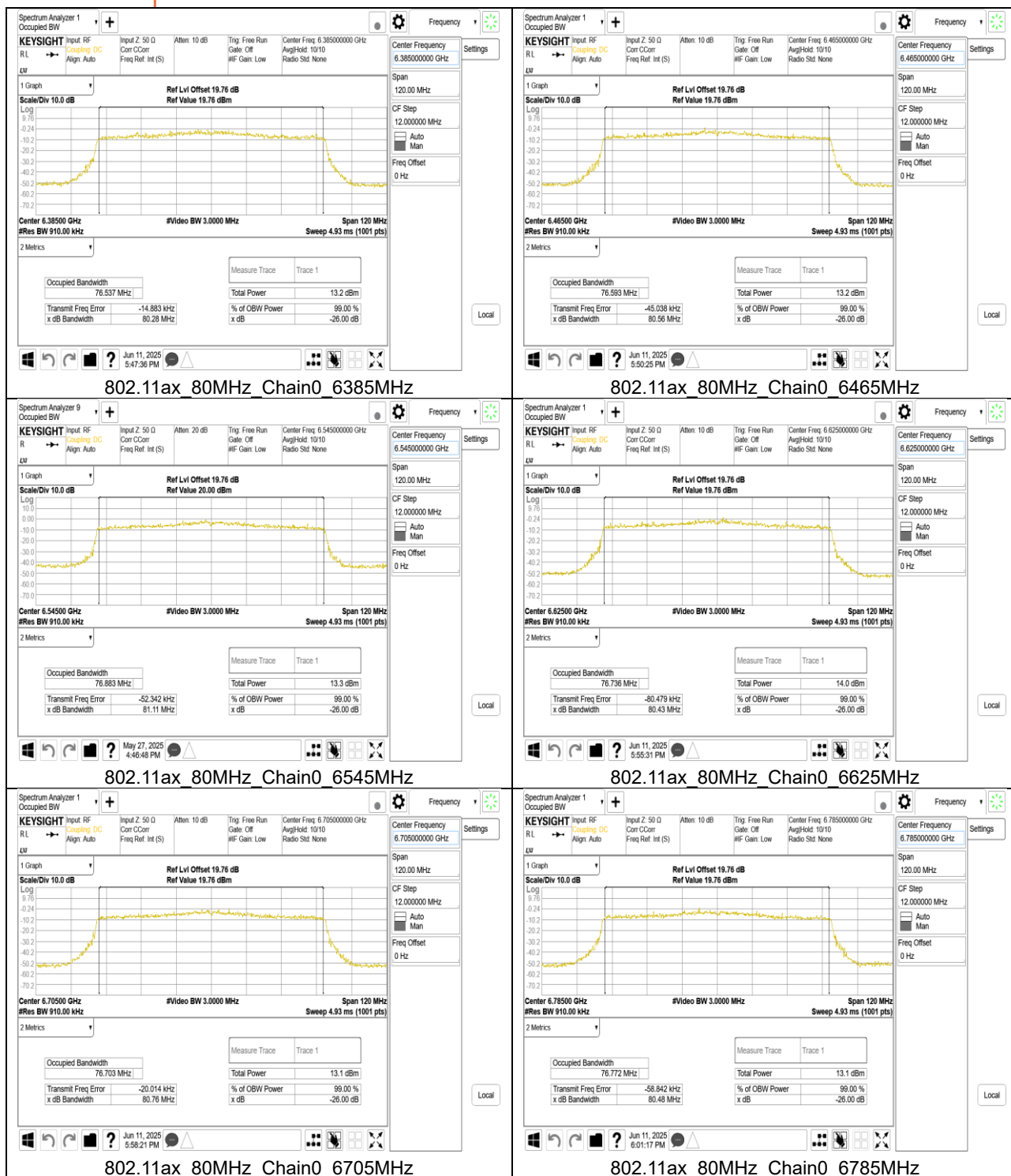
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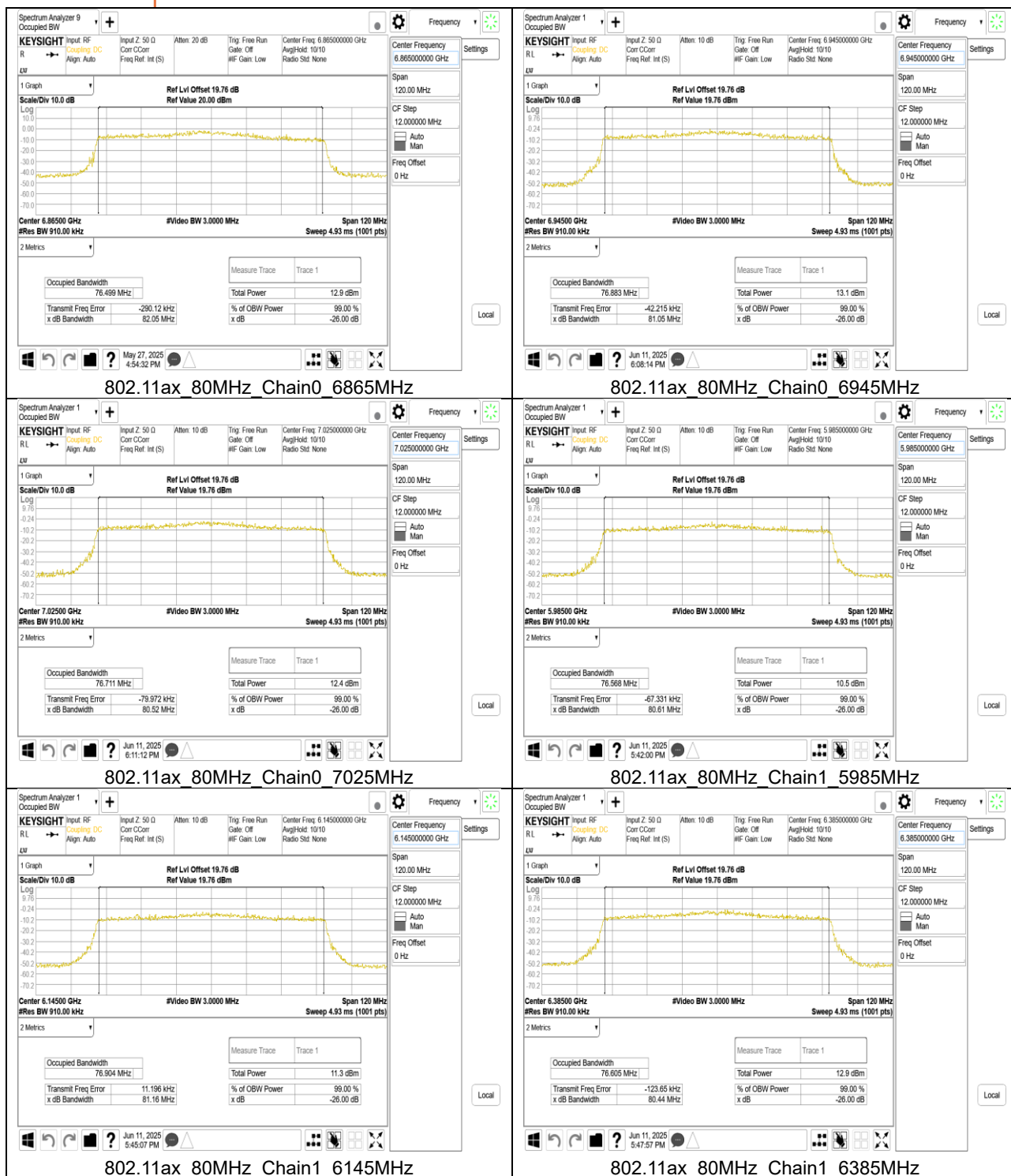
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