

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: TERF2505001673ER
FCC ID 2AAED-CSBTN005
Date of EUT Received: May 8, 2025
Date of Test: May 8, 2025 ~ June 12, 2025
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
TERF2505001673ER	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
Power Supply:	5 Vdc from USB port
Test Software (Name/Version):	default (myftm command)

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a, 11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_HT20: up to 144.4 Mbps
	802.11 n_HT40: up to 300 Mbps
	802.11 ac_VHT20: up to 173.4 Mbps
	802.11 ac_VHT40: up to 400 Mbps
	802.11 ac_VHT80: up to 866.6 Mbps
	802.11 ac_VHT160: up to 1733.4 Mbps
	802.11 ax_HE20: up to 286.8 Mbps
	802.11 ax_HE40: up to 573.6 Mbps
	802.11 ax_HE80: up to 1201 Mbps
	802.11 ax_HE160: up to 2402 Mbps

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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	5150-5250	3.62
				5250-5350	3.62
				5470-5725	3.42
				5725-5850	2.4
		ANT 2	US5990-12-001-C	5150-5250	1.54
				5250-5350	1.54
				5470-5725	2.18
				5725-5850	1.66

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 FCC

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)	Modulation Technology
802.11a/ 802.11n_HT20/ 802.11ac_VHT20/ 802.11ax_HE20	5180~5240	4	Avg	18.90 dBm	OFDM
	5260~5320	4	Avg	18.91 dBm	OFDM
	5500~5720	12	Avg	18.92 dBm	OFDM
	5745-5825	5	Avg	18.90 dBm	OFDM
802.11n_HT40/ 802.11ac_VHT40/ 802.11ax_HE40	5190~5230	2	Avg	17.43 dBm	OFDM
	5270~5310	2	Avg	17.39 dBm	OFDM
	5510~5710	6	Avg	17.46 dBm	OFDMA
	5755-5795	2	Avg	17.49 dBm	OFDM
802.11ac_VHT80/ 802.11ax_HE80	5210	1	Avg	15.90 dBm	OFDM
	5290	1	Avg	16.79 dBm	OFDM
	5530~5690	3	Avg	16.97 dBm	OFDMA
	5775	1	Avg	16.89 dBm	OFDMA
802.11ac_VHT160/ 802.11ax_HE160	5250	1	Avg	13.85 dBm	OFDMA
	5570	1	Avg	13.48 dBm	OFDMA

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion 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 indica- tion 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.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

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

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

2.4.2 For all conducted test items:

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

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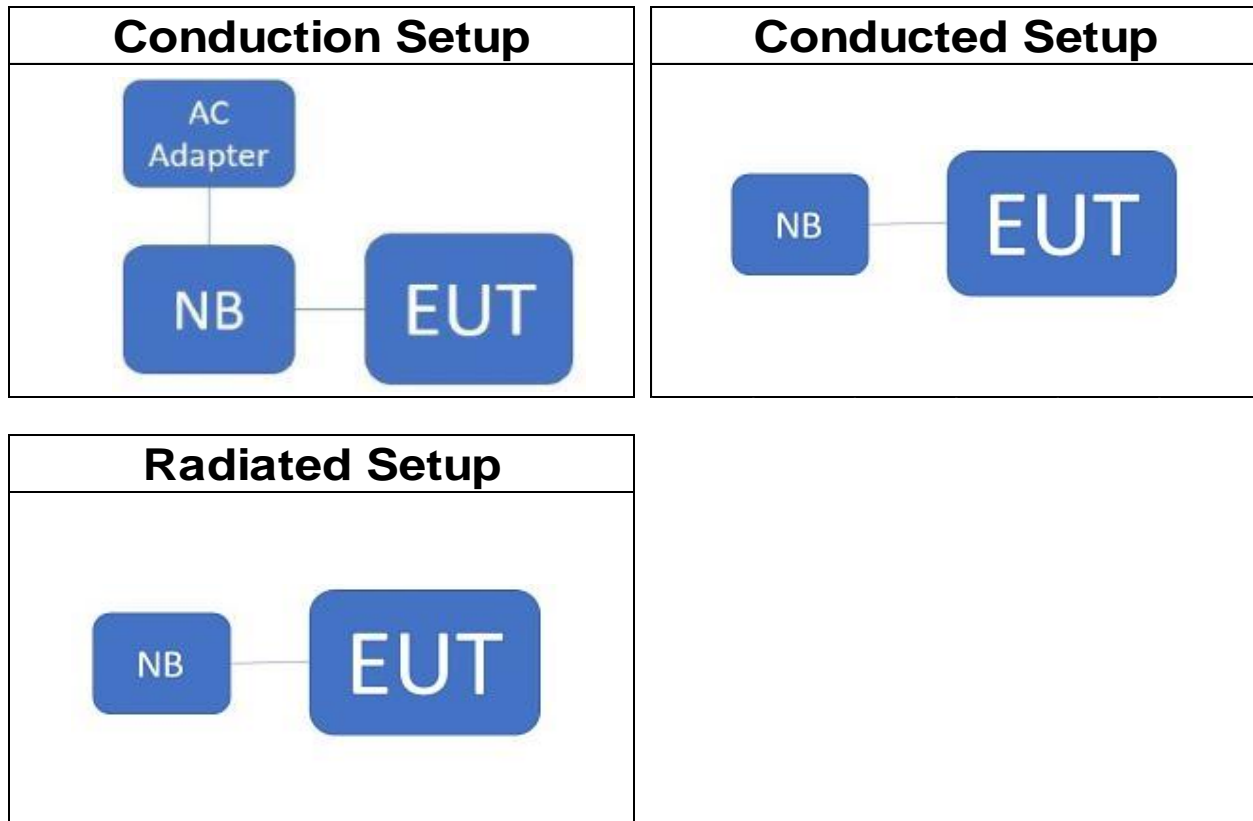
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2.5 Test Configuration



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	Referenced report
§15.207	AC Power Line Conducted Emission	Compliant		TERF2505001680ER
§15.407(e)	Emission Bandwidth	Compliant	N	TERF2505001680ER
§15.407(a)	Maximum Conducted Output Power	Compliant	N	TERF2505001680ER
§15.407(a)	Power Spectral Density	Compliant	N	TERF2505001680ER
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant		TERF2505001680ER
§15.407(c)	Transmission in case of Absence of Information	Compliant		TERF2505001680ER
§15.203	Antenna Requirement	Compliant		TERF2505001680ER

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz	
CH	Freq. (MHz)
36	5180
40	5200
44	5220
48	5240

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

80MHz	
CH	Freq. (MHz)
42	5210

UNII-2A 5250 MHz ~ 5350MHz

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

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

80MHz	
CH	Freq. (MHz)
58	5290

160MHz	
CH	Freq. (MHz)
50	5250

UNII-2C 5470 MHz ~ 5725MHz

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

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

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

160MHz	
CH	Freq. (MHz)
114	5570

UNII-3 5725 MHz ~ 5850MHz

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

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

80MHz	
CH	Freq. (MHz)
155	5775

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4.2 The Worst Test Modes and Channel Details

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

Modulation		Transmission Chain						Single Transmission Spatial	Multiple Transmission Spatial
V	802.11 a	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
V	802.11 ax	V	Ch0	V	Ch1		Ch2	1TX	V 2TX
	802.11 be		Ch0		Ch1		Ch2	1TX	2TX

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

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE	ANTENNA
					(Mbps)	PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11ac_VHT160	5250	50	50	OFDM	MCS0	2TX
	5570	114	114			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5180~5240	36 to 48	36,44,48	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54	MCS0	2TX
	5260~5320	52 to 64	52,60,64				
	5500~5720	100 to 144	100,116,140,144				
	5745~5825	149 to 165	149,157,165				
802.11ax_HE40	5190~5230	38 to 46	38,46	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	5270~5310	54 to 62	54,62				
	5510~5710	102 to 142	102,110,134,142				
	5755~5795	151 to 159	151,159				
802.11ax_HE80	5210	42	42	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	5290	58	58				
	5530~5690	106 to 138	106,122,138				
	5775	155	155				
802.11ax_HE160	5250	50	50	OFDMA	FULL RU 996/67,996/S67	MCS0	2TX
	5570	114	114				

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	2Tx
	5260~5320	52 to 64	60	OFDM		
	5500~5720	100 to 144	116	OFDM		
	5745~5825	149 to 165	157	OFDM		

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2Tx
	5260~5320	52 to 64	52,60,64	OFDM		
	5500~5700	100 to 140	100,116,140,144	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
802.11n20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2Tx
	5260~5320	52 to 64	52,60,64	OFDM		
	5500~5700	100 to 140	100,116,140,144	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
802.11n40	5190~5230	38 to 46	38,46	OFDM	MCS0	2Tx
	5270~5310	54 to 62	54,62	OFDM		
	5510~5670	102 to 134	102,110,134,142	OFDM		
	5755~5795	151 to 159	151,159	OFDM		
802.11ac80	5210	42	42	OFDM	MCS0	2Tx
	5290	58	58	OFDM		
	5530~5610	106 to 122	106,122,138	OFDM		
	5775	155	155	OFDM		
802.11ac160	5250	50	50	OFDM	MCS0	2Tx
	5530~5610	106 to 122	114	OFDM		

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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	5180~5240	36 to 48	36,44,48	OFDMA	MCS0	full,26/0,52/37,106/53,26/8,52/40,106/54	2Tx
	5260~5320	52 to 64	52,60,64	OFDMA			
	5500~5700	100 to 140	100,116,140,144	OFDMA			
	5745~5825	149 to 165	149,157,165	OFDMA			
802.11ax40	5190~5230	38 to 46	38,46	OFDMA	MCS0	full,242/61,242/62	2Tx
	5270~5310	54 to 62	54,62	OFDMA			
	5510~5670	102 to 134	102,110,134,142	OFDMA			
	5755~5795	151 to 159	151,159	OFDMA			
802.11ax80	5210	42	42	OFDMA	MCS0	full,484/65,484/66	2Tx
	5290	58	58	OFDMA			
	5530~5610	106 to 122	106,122,138	OFDMA			
	5775	155	155	OFDMA			
802.11ax160	5250	50	50	OFDMA	MCS0	full,996/67,996/s67	2Tx
	5530~5610	106 to 122	114	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

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6.3 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)
7G High Pass Filter	WI	WHKX7.0	45	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 5150-5350	Micro-Tronics	BRM50703	1	12/11/2024	12/10/2025
Band Reject Filter 5470-5725	Micro-Tronics	BRM50704	1	12/11/2024	12/10/2025
Band Reject Filter 5725-5875	Micro-Tronics	BRC500705-01	1	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

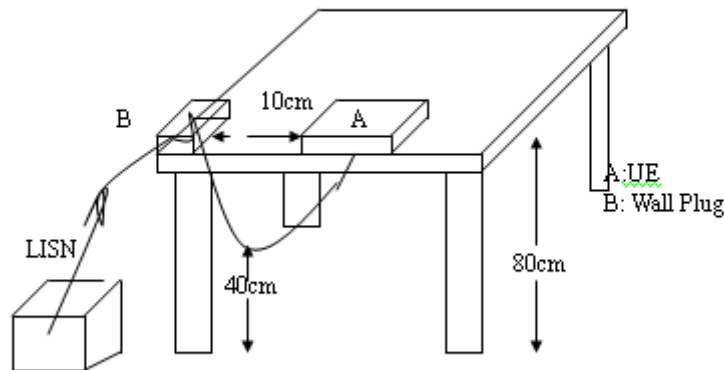
Note

- 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 SET-UP



7.4 Measurement Procedure

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

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7.5 Measurement Result

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 :TERF2505001680ER

Test Site :Conducttion 1

Operation Mode :WLAN5G

Test Date :2025-06-13

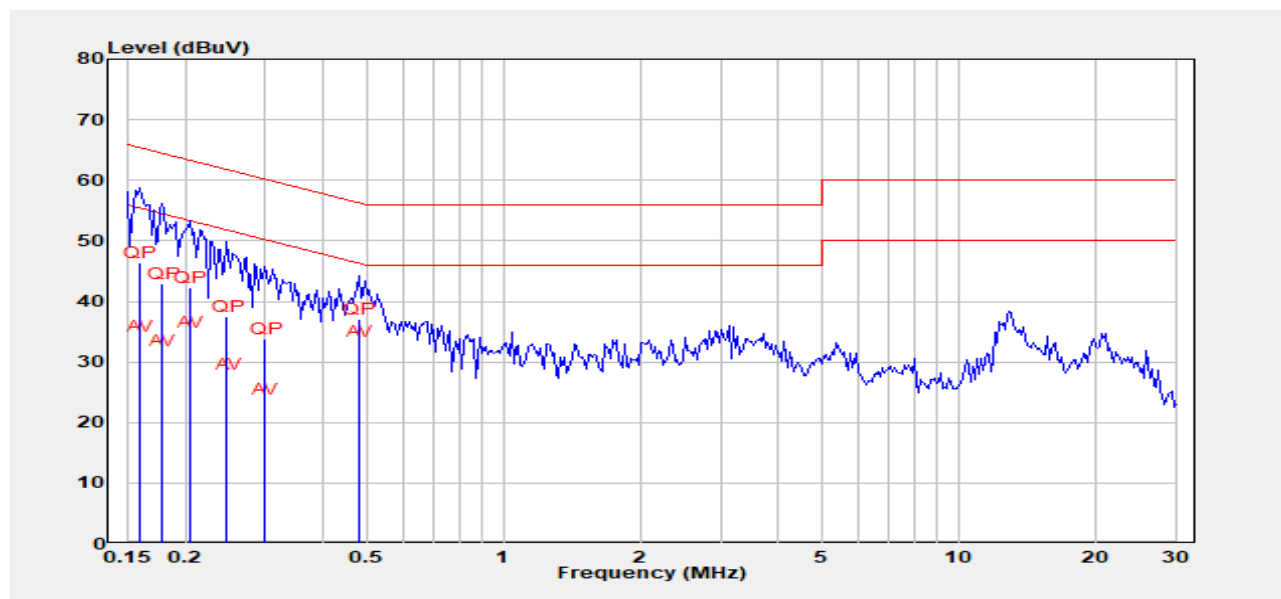
Power :120V/60Hz

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
0.158	Average	24.03	10.13	34.16	55.56	-21.40
0.158	QP	36.37	10.13	46.50	65.56	-19.06
0.178	Average	21.73	10.13	31.86	54.59	-22.73
0.178	QP	32.87	10.13	43.00	64.59	-21.59
0.204	Average	24.67	10.13	34.80	53.45	-18.65
0.204	QP	32.23	10.13	42.36	63.45	-21.09
0.247	Average	17.83	10.14	27.97	51.86	-23.90
0.247	QP	27.44	10.14	37.58	61.86	-24.29
0.299	Average	13.63	10.14	23.77	50.28	-26.51
0.299	QP	23.77	10.14	33.91	60.28	-26.37
0.481	Average	23.33	10.16	33.49	46.32	-12.83
0.481	QP	26.93	10.16	37.09	56.32	-19.23

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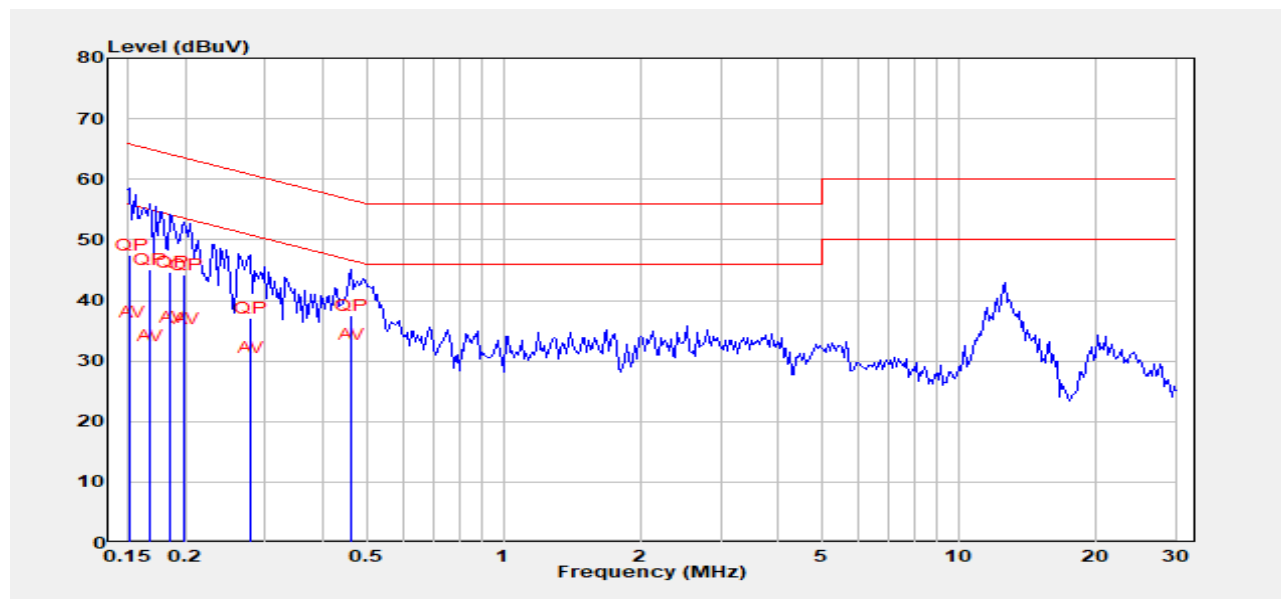
Power :120V/60Hz

Temp./Humi. :24.5°C/66%

Probe :N

Engineer :Nick Lin

Note: :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBuV	dB	dBuV	dBuV	dB
0.152	Average	26.23	10.12	36.35	55.91	-19.56
0.152	QP	37.39	10.12	47.51	65.91	-18.40
0.167	Average	22.38	10.12	32.50	55.12	-22.62
0.167	QP	35.07	10.12	45.19	65.12	-19.93
0.185	Average	25.39	10.12	35.51	54.24	-18.73
0.185	QP	34.53	10.12	44.65	64.24	-19.59
0.200	Average	25.12	10.12	35.24	53.62	-18.38
0.200	QP	34.10	10.12	44.22	63.62	-19.40
0.277	Average	20.53	10.13	30.66	50.90	-20.23
0.277	QP	26.88	10.13	37.01	60.90	-23.88
0.461	Average	22.59	10.16	32.75	46.67	-13.92
0.461	QP	27.36	10.16	37.52	56.67	-19.15

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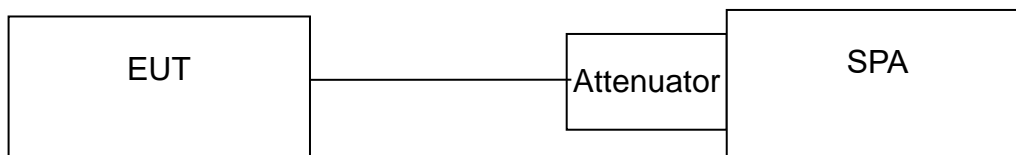
8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Test Setup



8.3 Measurement Procedure

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

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9. For 26dB BW and OBW of straddle channels, the results were calculated as below.
straddle channel emission BW in U-NII 2C = (emission BW/2) + (5725-straddle channel)
straddle channel emission bandwidth in U-NII 3 = emission BW- emission BW_U-NII 2C

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.57	12.690
5220	20.14	13.040
5240	22.14	13.450
5260	21.48	13.320
5300	18.45	12.660
5320	18.39	12.650
5500	19.90	12.990
5580	18.52	12.680
5700	19.16	12.820
5720	14.74	11.680

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.27	12.850
5220	19.04	12.800
5240	18.86	12.760
5260	18.62	12.700
5300	19.06	12.800
5320	18.98	12.780
5500	18.98	12.780
5580	18.83	12.750
5700	18.68	12.710
5720	14.46	11.600

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	2.18	3.380
5745	12.55	10.990
5785	14.07	11.480
5825	16.06	12.060

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.12	4.940
5745	12.56	10.990
5785	16.31	12.120
5825	15.12	11.800

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.18	< 5250
5745	5736.82	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.18	< 5250
5745	5736.84	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.26	13.070
5220	19.66	12.940
5240	21.15	13.250
5260	21.05	13.230
5300	19.73	12.950
5320	19.82	12.970
5500	20.44	13.100
5580	20.39	13.090
5700	20.48	13.110
5720	15.06	11.780

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.65	12.930
5220	19.92	12.990
5240	19.87	12.980
5260	19.42	12.880
5300	19.89	12.990
5320	19.97	13.000
5500	19.52	12.900
5580	19.54	12.910
5700	19.05	12.800
5720	14.97	11.750

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.58	5.540
5745	12.61	11.010
5785	16.93	12.290
5825	16.03	12.050

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.55	5.500
5745	15.70	11.960
5785	16.57	12.190
5825	16.00	12.040

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.41	< 5250
5745	5736.20	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.76	< 5250
5745	5736.22	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.50	15.970
5230	39.21	15.930
5270	39.32	15.950
5310	39.27	15.940
5510	39.53	15.970
5550	40.03	16.020
5670	39.47	15.960
5710	34.76	15.410

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.54	15.970
5230	38.84	15.890
5270	39.40	15.950
5310	39.04	15.920
5510	39.13	15.930
5550	39.18	15.930
5670	39.30	15.940
5710	34.39	15.360

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	2.02	3.050
5755	30.19	14.800
5795	33.84	15.290

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	0.84	-0.760
5755	35.03	15.440
5795	32.53	15.120

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.90	< 5250
5755	5736.98	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5247.94	< 5250
5755	5737.02	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.56	19.060
5290	80.88	19.080
5530	80.96	19.080
5610	80.43	19.050
5690	74.83	18.740

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.25	19.040
5290	80.04	19.030
5530	79.81	19.020
5610	79.89	19.020
5690	75.11	18.760

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	0.65	-1.870
5775	68.94	18.380

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.51	4.000
5775	71.38	18.540

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.16	< 5250
5775	5737.19	> 5725

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.52	< 5250
5775	5737.46	> 5725

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	162.3	22.100
5570	163.4	22.130

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	163.4	22.130
5570	162.6	22.110

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802.11ax_HE20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.23	13.060
5220	full	20.25	13.060
5240	full	20.65	13.150
5260	full	20.67	13.150
5300	full	20.45	13.110
5320	full	20.29	13.070
5500	full	20.26	13.070
5580	full	20.07	13.030
5700	full	20.43	13.100
5720	full	14.93	11.740

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	20.26	13.070
5220	full	20.21	13.060
5240	full	20.61	13.140
5260	full	20.60	13.140
5300	full	20.54	13.130
5320	full	20.61	13.140
5500	full	20.32	13.080
5580	full	20.54	13.130
5700	full	20.43	13.100
5720	full	15.21	11.820

802.11ax_HE20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5720	full	4.22	6.250
5745	full	14.91	11.730
5785	full	16.27	12.110
5825	full	15.10	11.790

802.11ax_HE20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5720	full	3.34	5.240
5745	full	13.78	11.390
5785	full	16.61	12.200
5825	full	15.17	11.810

802.11ax_HE20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.43	< 5250
5745	5735.55	> 5725

802.11ax_HE20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.44	< 5250
5745	5735.59	> 5725

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802.11ax_HE40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	40.09	16.030
5230	full	39.65	15.980
5270	full	39.53	15.970
5310	full	40.05	16.030
5510	full	39.73	15.990
5550	full	40.95	16.120
5670	full	39.90	16.010
5710	full	34.75	15.410

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	39.61	15.980
5230	full	39.74	15.990
5270	full	39.58	15.970
5310	full	39.66	15.980
5510	full	39.64	15.980
5550	full	39.80	16.000
5670	full	39.87	16.010
5710	full	35.12	15.460

802.11ax_HE40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5710	full	1.90	2.790
5755	full	33.94	15.310
5795	full	36.68	15.640

802.11ax_HE40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5710	full	2.43	3.860
5755	full	33.90	15.300
5795	full	33.87	15.300

802.11ax_HE40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.77	< 5250
5755	5736.10	> 5725

802.11ax_HE40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.75	< 5250
5755	5736.20	> 5725

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802.11ax_HE80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	81.25	19.100
5290	full	81.04	19.090
5530	full	81.22	19.100
5610	full	80.13	19.040
5690	full	75.37	18.770

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	80.39	19.050
5290	full	80.75	19.070
5530	full	80.75	19.070
5610	full	80.53	19.060
5690	full	75.64	18.790

802.11ax_HE80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5690	full	0.02	-16.990
5775	full	72.65	18.610

802.11ax_HE80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5690	full	0.04	-13.980
5775	full	70.11	18.460

802.11ax_HE80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.02	< 5250
5775	5736.32	> 5725

802.11ax_HE80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.34	< 5250
5775	5736.57	> 5725

802.11ax_HE160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	163.7	22.140
5570	full	163.4	22.130

802.11ax_HE160_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	162.2	22.100
5570	full	161.7	22.090

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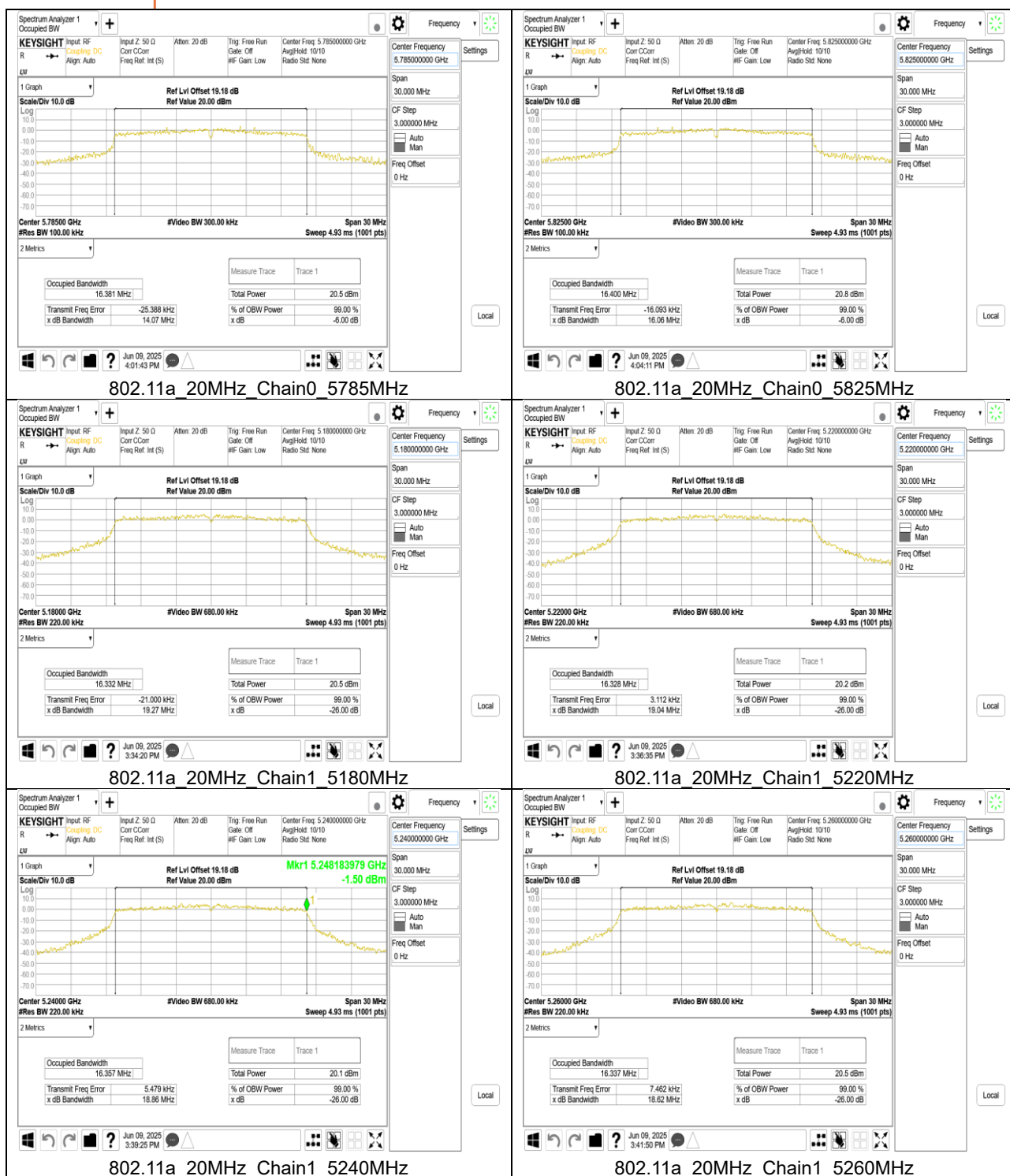
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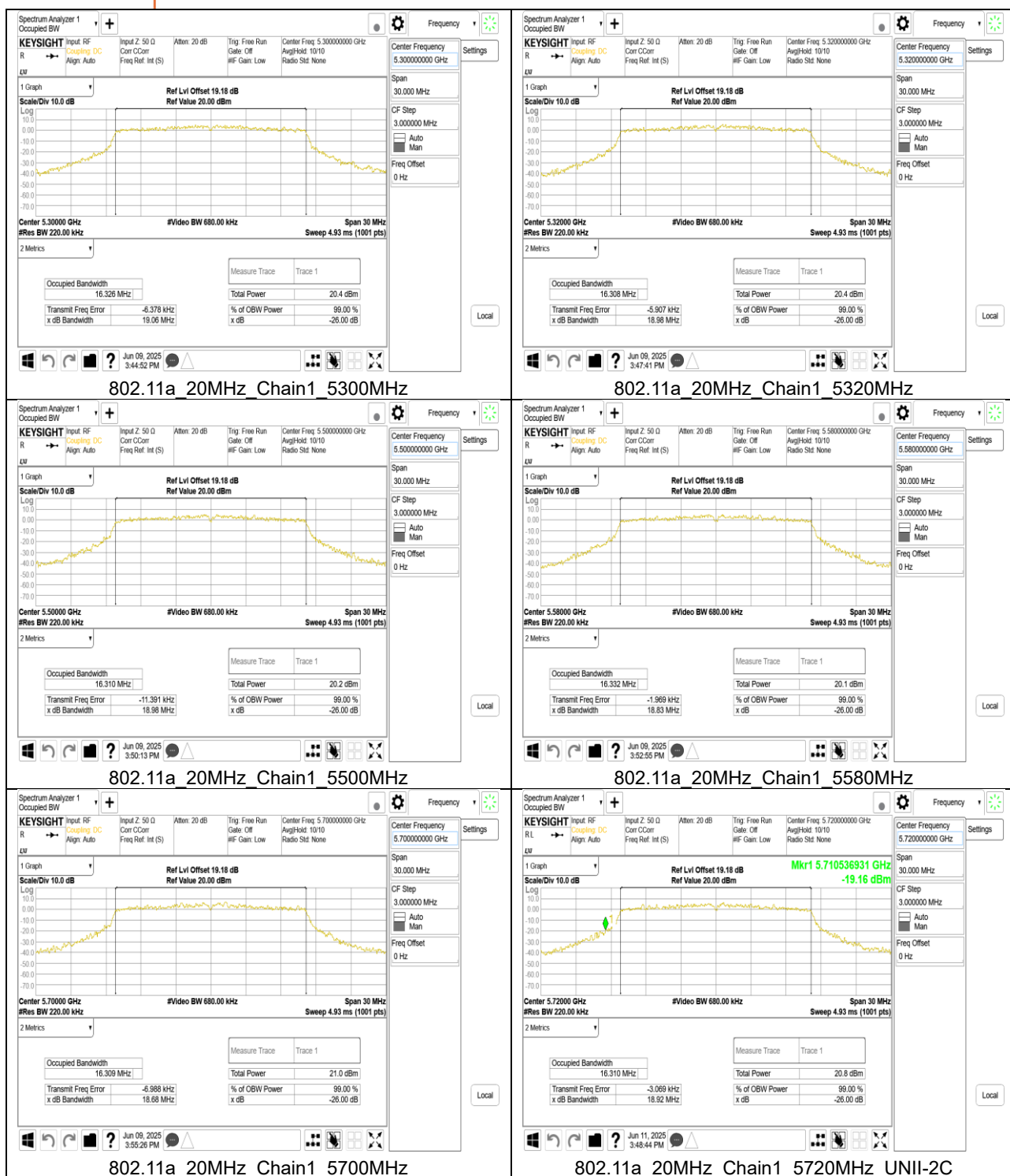
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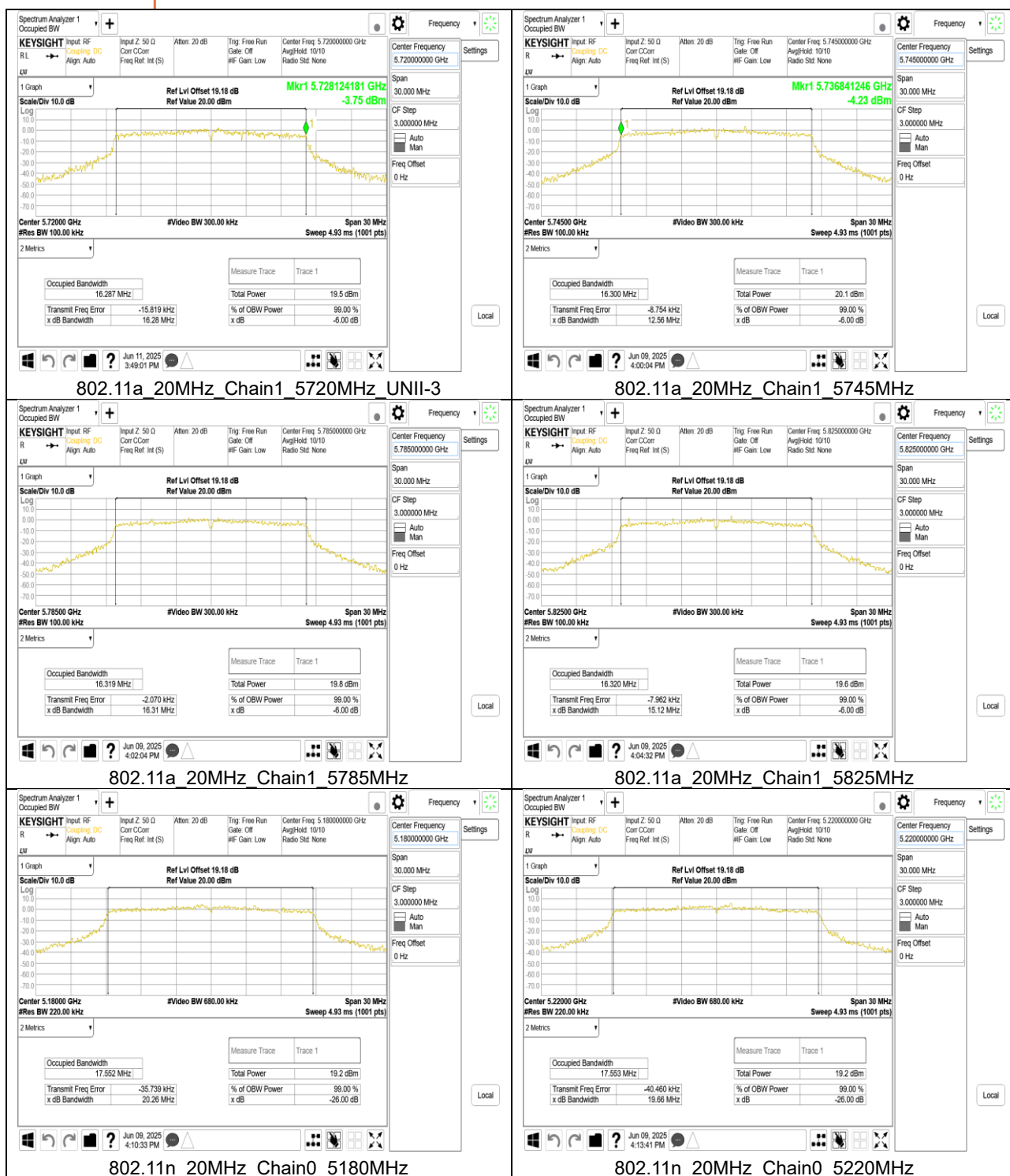
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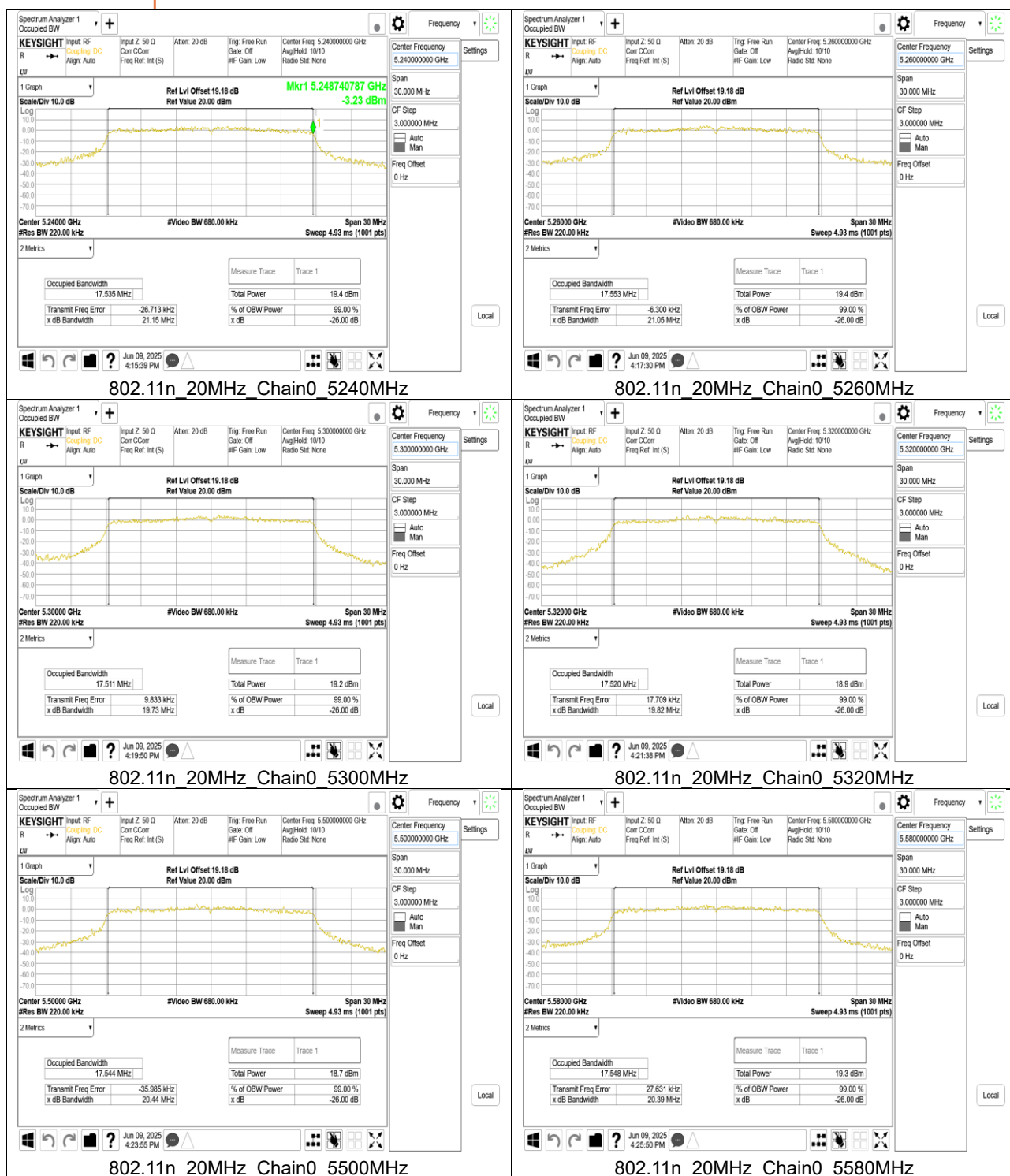
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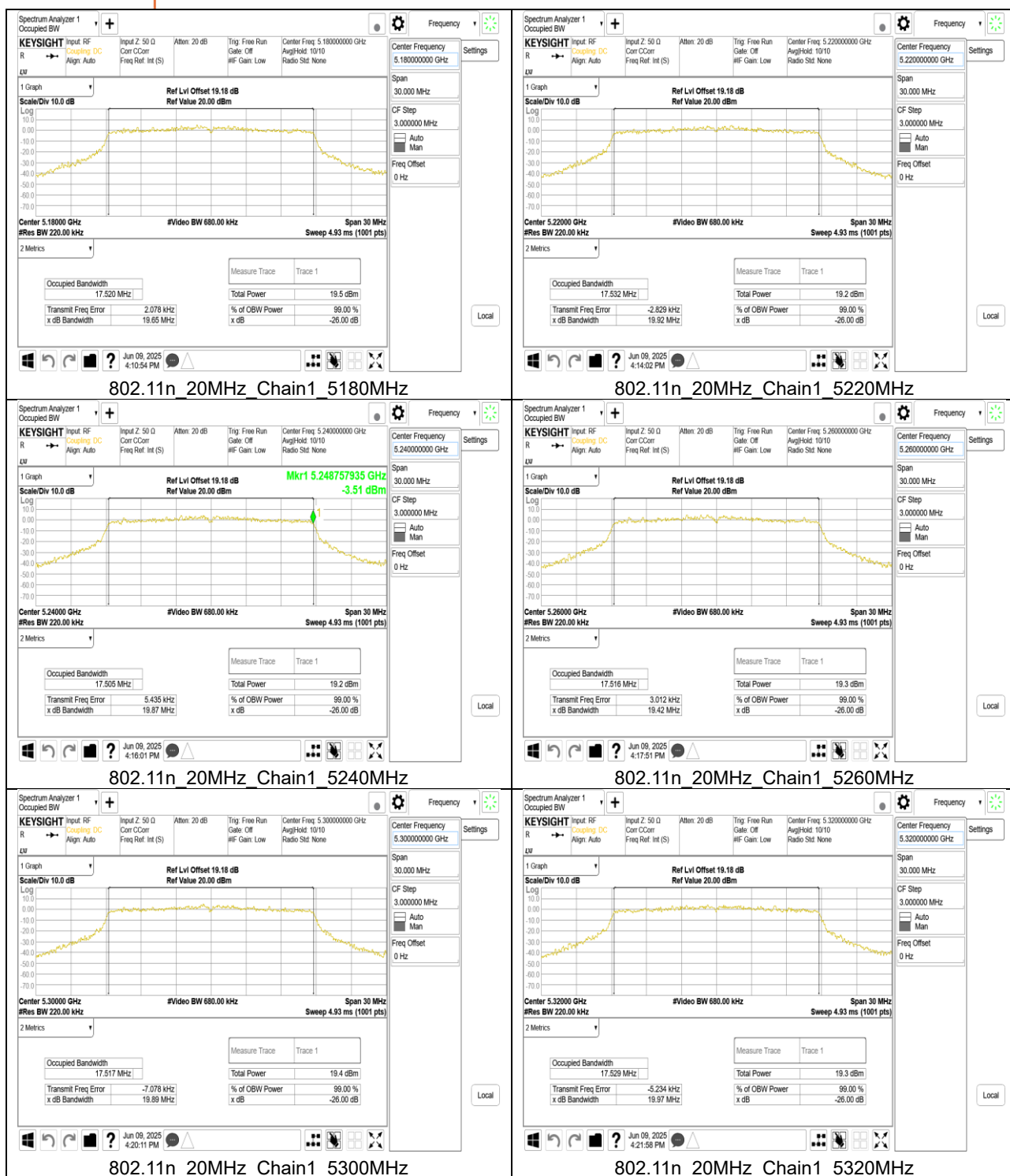
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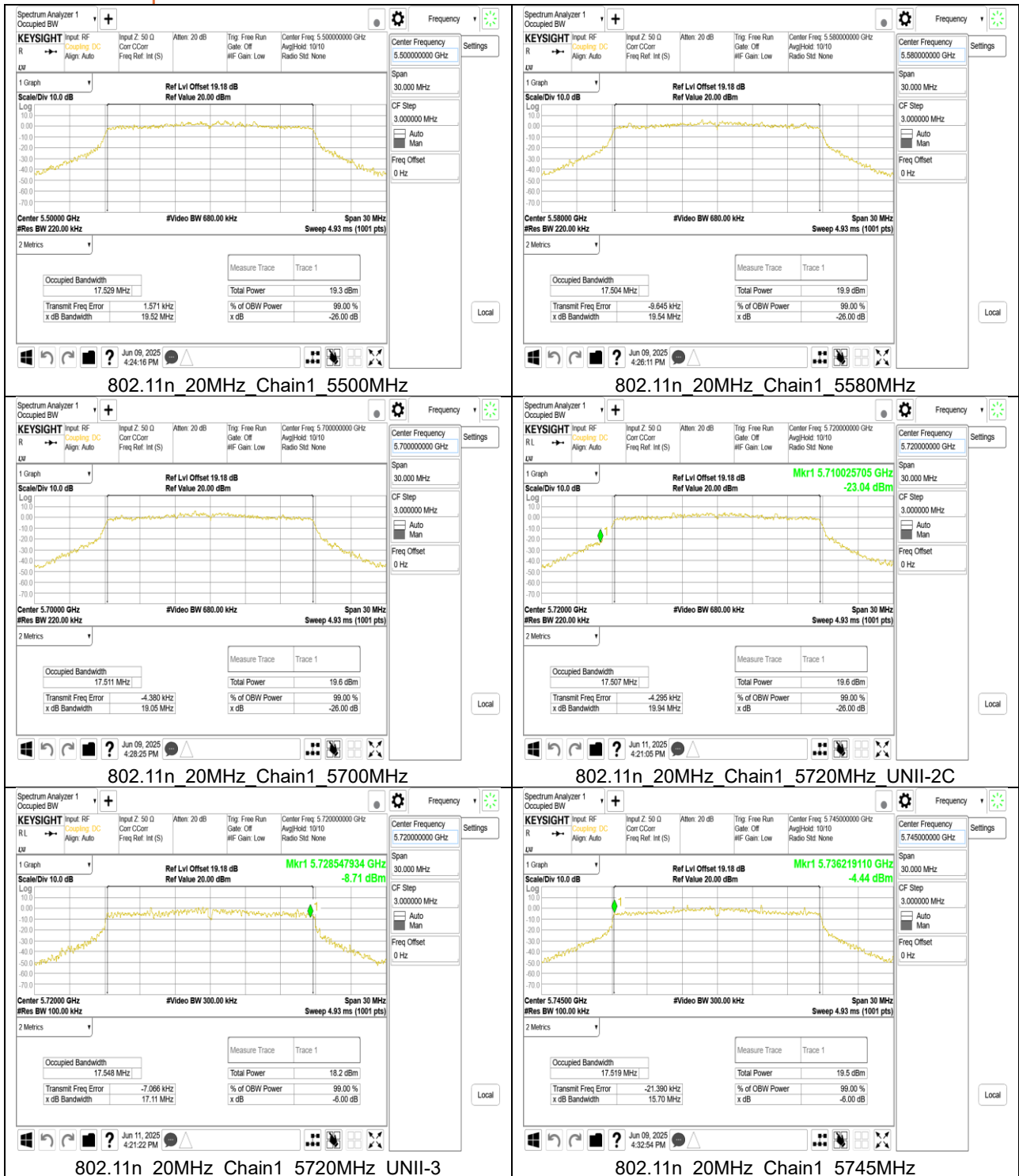
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