

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description VR Headset

Applicant: Valve Corporation
10400 NE 4th Street, Suite 1400, Bellevue, WA 98004, USA

Manufacturer: Valve Corporation
10400 NE 4th Street, Suite 1400, Bellevue, WA 98004, USA

Brand Name: VALVE

Model No. 1015

Report Number: TERF2504001433E2

FCC ID 2AES4-1015

Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2504001442E2, for more details please refer to section 2 in this report.

Date of Test: N/A, the test results are fully leveraged from test report number TERF2504001442E2, for more details please refer to section 2 in this report.

Issue Date: July 28, 2026

Approved By

Jay Lin

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 C63.10:2020 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
TERF2504001433E2	00	Original	April 08, 2026	Mini Yeh	
TERF2504001433E2	01	Update p.22 & TPC Information & add p.7 directional gain calculation	May 11, 2026	Mini Yeh	*
TERF2504001433E2	02	Update p.12 Operating Frequencies	May 12, 2026	Mini Yeh	*
TERF2504001433E2	03	Modify Comment	June 02, 2026	Mini Yeh	*
TERF2504001433E2	04	Modify Comment	June 30, 2026	Mini Yeh	*
TERF2504001433E2	05	Modify Comment	July 13, 2026	Mini Yeh	*
TERF2504001433E2	06	Modify Comment	July 23, 2026	Mini Yeh	*
TERF2504001433E2	07	Modify Comment	July 28, 2026	Mini Yeh	*

Note:

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

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	VR Headset
Brand Name	VALVE
Model No.	1015
Firmware Version	WLAN.HMT.2.0-01788-QCAHMTSWPL_V1.0_V2.0_SILICONZ-1
Power Supply	7.74 Vdc
Test Software (Name/Version)	Qualcomm Sequence Profiling Resource Version 6.00.00212.1

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1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11a: 6 - 54 Mbps
	802.11n_HT20: up to 144.4 Mbps
	802.11n_HT40: up to 300 Mbps
	802.11ac_VHT20: up to 173.4 Mbps
	802.11ac_VHT40: up to 400 Mbps
	802.11ac_VHT80: up to 866.6 Mbps
	802.11ac_VHT160: up to 1733.4 Mbps
	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
	802.11be_EHT20: up to 344.1 Mbps
	802.11be_EHT40: up to 688.2 Mbps
	802.11be_EHT80: up to 1441.2 Mbps
	802.11be_EHT160: up to 2882.4 Mbps
	802.11be_EHT320: up to 5764.8 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Freq. (MHz)	Peak Antenna Gain (dBi)	
			CH0	CH1
Dipole	Wistron NeWeb Corp	5925~6425	2.90	2.95
		6425~6525	3.30	3.36
		6525~6875	3.30	3.36
		6875~7125	2.92	4.86
	AWAN	5925~6425	2.71	2.37
		6425~6525	3.10	2.84
		6525~6875	3.10	2.84
		6875~7125	2.51	4.43

DIRECTIONAL GAIN CALCULATION:

Correlated Directional Gain = $10 \cdot \text{LOG}(((10^{(\text{Ant1}/20)} + 10^{(\text{Ant2}/20)})^2)/2)$

5925~6425: 5.94

6425~6525: 6.34

6525~6875: 6.34

6875~7125: 6.95

Uncorrelated Directional Gain = $10 \cdot \text{LOG}((10^{(\text{Ant1}/10)} + 10^{(\text{Ant2}/10)})/2)$

5925~6425: 2.93

6425~6525: 3.33

6525~6875: 3.33

6875~7125: 4.00

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.
3. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.
4. The directional gain is calculated according to section F. 2). f). of FCC KDB 662911 D01. For CDD mode, uncorrelated gain is used for EIRP output power calculation and correlated gain is for PSD EIRP calculation.

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1.4 Rated Power

LPI

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5955~6415	24	5.80 dBm
	6435~6515	5	5.68 dBm
	6535~6875	18	6.24 dBm
	6895~7095	11	8.09 dBm
802.11n_HT40/ 802.11ac_VHT40	5965~6405	12	8.50 dBm
	6445~6525	3	8.71 dBm
	6565~6845	8	9.06 dBm
	6885~7085	6	10.36 dBm
802.11ac_VHT80	5985~6385	6	11.31 dBm
	6465	1	10.60 dBm
	6545~6865	5	11.77 dBm
	6945~7025	2	12.96 dBm
802.11ac_VHT160	6025~6345	3	13.95 dBm
	6505	1	11.15 dBm
	6665~6825	2	13.48 dBm
	6985	1	14.71 dBm

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Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20/ 802.11be_EHT20	5955~6415	24	6.14 dBm
	6435~6515	5	5.77 dBm
	6535~6875	18	6.41 dBm
	6895~7095	11	7.62 dBm
802.11ax_HE40/ 802.11be_EHT40	5965~6405	12	8.76 dBm
	6445~6525	3	9.01 dBm
	6565~6845	8	9.34 dBm
	6885~7085	6	10.11 dBm
802.11ax_HE80/ 802.11be_EHT80	5985~6385	6	11.03 dBm
	6465	1	10.94 dBm
	6545~6865	5	12.12 dBm
	6945~7025	2	12.71 dBm
802.11ax_HE160/ 802.11be_EHT160	6025~6345	3	13.69 dBm
	6505	1	11.23 dBm
	6665~6825	2	13.89 dBm
	6985	1	15.00 dBm
802.11be_EHT320	6105~6265	3	17.15 dBm
	6425	1	12.11 dBm
	6585~6745	2	16.67 dBm
	6905	1	18.23 dBm

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WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11a/ 802.11n_HT20/ 802.11ac_VHT20	5955~6415	24	2.08 dBm
	6435~6515	5	1.88 dBm
	6535~6875	18	1.82 dBm
	6895~7095	11	3.94 dBm
802.11n_HT40/ 802.11ac_VHT40	5965~6405	12	4.95 dBm
	6445~6525	3	4.80 dBm
	6565~6845	8	5.17 dBm
	6885~7085	6	6.40 dBm
802.11ac_VHT80	5985~6385	6	7.11 dBm
	6465	1	7.65 dBm
	6545~6865	5	7.71 dBm
	6945~7025	2	10.43 dBm
802.11ac_VHT160	6025~6345	3	10.37 dBm
	6505	1	8.22 dBm
	6665~6825	2	9.87 dBm
	6985	1	10.62 dBm

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WLAN 6E			
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
802.11ax_HE20/ 802.11be_EHT20	5955~6415	24	2.61 dBm
	6435~6515	5	1.94 dBm
	6535~6875	18	2.49 dBm
	6895~7095	11	3.55 dBm
802.11ax_HE40/ 802.11be_EHT40	5965~6405	12	4.81 dBm
	6445~6525	3	4.98 dBm
	6565~6845	8	5.20 dBm
	6885~7085	6	6.13 dBm
802.11ax_HE80/ 802.11be_EHT80	5985~6385	6	7.51 dBm
	6465	1	7.91 dBm
	6545~6865	5	8.03 dBm
	6945~7025	2	9.70 dBm
802.11ax_HE160/ 802.11be_EHT160	6025~6345	3	10.48 dBm
	6505	1	9.87 dBm
	6665~6825	2	10.63 dBm
	6985	1	11.14 dBm
802.11be_EHT320	6105~6265	3	11.00 dBm
	6425	1	10.96 dBm
	6585~6745	2	11.48 dBm
	6905	1	12.78 dBm

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1.5 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						

320MHz	
CH	Freq. (MHz)
31	6105
63	6265

320MHz	
CH	Freq. (MHz)
95	6425

UNII-7 6525~6875 MHz

20MHz				40MHz		80MHz		160MHz	
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
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						
233	7115						

320MHz	
CH	Freq. (MHz)
127	6585
159	6745

320MHz	
CH	Freq. (MHz)
191	6905

Note: Operating frequency bands are enabled or disabled according to regional requirements

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1.6 EUT Availability and The Worst Test Modes

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

The given UE is pre-scanned among below modes.

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

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LPI

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	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	5955~6415	1 to 93	1,45,93	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	5965~6405	3 to 91	3,43,91	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	5985~6385	7 to 87	7,39,87	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	6025~6345	15 to 79	15,47,79	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 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 484/65,484/66	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	MRU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	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				
802.11be_EHT40	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				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66 484+242MRU1, 484+242MRU2, 484+242MRU3, 484+242MRU4	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66, 996+484MRU1, 996+484MRU2, 996+484MRU3, 996+484MRU4, 996+484+242MRU 1, 996+484+242MRU 2, 996+484+242MRU 4, 996+484+242MRU	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU 484/65,484/66, 2*996+484MRU2, 2*996+484MRU6, 2*996+484MRU7, 2*996+484MRU11, 3*996MRU1, 3*996MRU2, 3*996MRU3, 3*996MRU4, 3*996+484MRU1, 3*996+484MRU2, 3*996+484MRU3, 3*996+484MRU4, 3*996+484MRU7, 3*996+484MRU8	MCS0	2TX
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	45	OFDM	6	MIMO
	6435~6515	97 to 113	105	OFDM		
	6535~6875	117 to 185	149	OFDM		
	6895~7115	189 to 233	209	OFDM		
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	Ch0
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7115	189 to 233	185,189,209,233	OFDM		
802.11n20	5955~6415	1 to 93	1,45,93	OFDM	MCS0	Ch0
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7115	189 to 233	185,189,209,233	OFDM		
802.11n40	5955~6415	1 to 93	3,43,91	OFDM	MCS0	Ch0
	6435~6515	97 to 113	99,107	OFDM		
	6535~6875	117 to 185	115,123,147,179	OFDM		
	6895~7115	189 to 233	187,195,211,227	OFDM		
802.11ac80	5985~6385	7 to 87	7,39,87	OFDM	MCS0	Ch0
	6465	103	103	OFDM		
	6545~6865	119 to 183	119,135,151,167,183	OFDM		
	6945~7025	199 to 215	199,215	OFDM		
802.11ac160	6025~6345	15 to 79	15,47,79	OFDM	MCS0	Ch0
	6505	111	111	OFDM		
	6665~6825	143 to 175	143,175	OFDM		
	6985	207	207	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
802.11be20	5955~6415	1 to 93	1,45,93	OFDMA	MCS0	full,26/0,52/37,106/53,52+26MRU1,106+26MRU1,26/8,52/40,106/54,52+26MRU3,106+26MRU2	Ch0
	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			
802.11be40	5955~6415	1 to 93	3,43,91	OFDMA	MCS0	full,242/61,242/62	Ch0
	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			
802.11be80	5985~6385	7 to 87	7,39,87	OFDMA	MCS0	full,484/65,484+242MRU2,484+242MRU4,484/66,484+242MRU1,484+242MRU3	Ch0
	6465	103	103	OFDMA			
	6545~6865	119 to 183	119,135,151,167,183	OFDMA			
	6945~7025	199 to 215	199,215	OFDMA			
802.11be160	6025~6345	15 to 79	15,47,79	OFDMA	MCS0	full,996+484+242MRU2,996+484+242MRU4,996+484+242MRU8,996/67,996+484MRU2,996+484MRU4,996+484+242MRU1,996+484+242MRU5,996+484+242MRU7,996/s67,996+484MRU1,996+484MRU3	Ch0
	6505	111	111	OFDMA			
	6665~6825	143 to 175	143,175	OFDMA			
	6985	207	207	OFDMA			
802.11be320	6105~6265	31 to 63	31,63	OFDMA	MCS0	full,3x996MRU2,3x996MRU4,2x996+484MRU2,2x996+484MRU6,3x996+484MRU2,3x996+484MRU8,3x996+484MRU8,3x996MRU1,3x996MRU3,2x996+484MRU7,3x996+484MRU1,3x996+484MRU7,2x996+484MRU11	Ch0
	6425	95	95	OFDMA			
	6585~6745	127 to 159	127,159	OFDMA			
	6905	191	191	OFDMA			
RECEIVE RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION		ANTENNA PORT	
802.11a	5955~6415	1 to 93	45	OFDM		Rx	
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	149				
	6895~7115	189 to 233	209				

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VLP

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	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	5955~6415	1 to 93	1,45,93	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	5965~6405	3 to 91	3,43,91	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	5985~6385	7 to 87	7,39,87	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	6025~6345	15 to 79	15,47,79	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 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 484/65,484/66	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	MRU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54, 52+26MRU1, 52+26MRU3, 106+26MRU1, 106+26MRU2	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				
802.11be_EHT40	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				
802.11be_EHT80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66 484+242MRU1, 484+242MRU2, 484+242MRU3, 484+242MRU4	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 484/65,484/66, 996+484MRU1, 996+484MRU2, 996+484MRU3, 996+484MRU4, 996+484+242MRU1, 996+484+242MRU2, 996+484+242MRU4, 996+484+242MRU5, 996+484+242MRU7, 996+484+242MRU8	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				
802.11be_EHT320	6105~6265	31 to 63	31,63	OFDMA	FULL RU 484/65,484/66, 2*996+484MRU2, 2*996+484MRU6, 2*996+484MRU7, 2*996+484MRU11, 3*996MRU1, 3*996MRU2, 3*996MRU3, 3*996MRU4, 3*996+484MRU1, 3*996+484MRU2, 3*996+484MRU3, 3*996+484MRU4, 3*996+484MRU7, 3*996+484MRU8	MCS0	2TX
	6425	95	95				
	6585~6745	127 to 159	127,159				
	6905	191	191				

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TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	45	OFDM	6	MIMO
	6435~6515	97 to 113	105	OFDM		
	6535~6875	117 to 185	149	OFDM		
	6895~7115	189 to 233	209	OFDM		
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	Ch0
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7115	189 to 233	185,189,209,233	OFDM		
802.11n20	5955~6415	1 to 93	1,45,93	OFDM	MCS0	Ch0
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7115	189 to 233	185,189,209,233	OFDM		
802.11n40	5955~6415	1 to 93	3,43,91	OFDM	MCS0	Ch0
	6435~6515	97 to 113	99,107	OFDM		
	6535~6875	117 to 185	115,123,147,179	OFDM		
	6895~7115	189 to 233	187,195,211,227	OFDM		
802.11ac80	5985~6385	7 to 87	7,39,87	OFDM	MCS0	Ch0
	6465	103	103	OFDM		
	6545~6865	119 to 183	119,135,151,167,183	OFDM		
	6945~7025	199 to 215	199,215	OFDM		
802.11ac160	6025~6345	15 to 79	15,47,79	OFDM	MCS0	Ch0
	6505	111	111	OFDM		
	6665~6825	143 to 175	143,175	OFDM		
	6985	207	207	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
802.11be20	5955~6415	1 to 93	1,45,93	OFDMA	MCS0	full,26/0,52/37,106/53,5 2+26MRU1,106+26MRU1,26/8,52/40,106/54,5 2+26MRU3,106+26MRU2	Ch0
	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			
802.11be40	5955~6415	1 to 93	3,43,91	OFDMA	MCS0	full,242/61,242/62	Ch0
	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			
802.11be80	5985~6385	7 to 87	7,39,87	OFDMA	MCS0	full,484/65,484+242MRU2,484+242MRU4,484/66,484+242MRU1,484+242MRU3	Ch0
	6465	103	103	OFDMA			
	6545~6865	119 to 183	119,135,151,167,183	OFDMA			
	6945~7025	199 to 215	199,215	OFDMA			
802.11be160	6025~6345	15 to 79	15,47,79	OFDMA	MCS0	full,996+484+242MRU2,996+484+242MRU4,996+484+242MRU8,996/67,996+484MRU2,996+484MRU4,996+484+242MRU1,996+484+242MRU5,996+484+242MRU7,996/s67,996+484MRU1,996+484MRU3	Ch0
	6505	111	111	OFDMA			
	6665~6825	143 to 175	143,175	OFDMA			
	6985	207	207	OFDMA			
802.11be320	6105~6265	31 to 63	31,63	OFDMA	MCS0	full,3x996MRU2,3x996MRU4,2x996+484MRU2,2x996+484MRU6,3x996+484MRU2,3x996+484MRU8,3x996+484MRU1,3x996MRU3,2x996+484MRU7,3x996+484MRU1,3x996+484MRU7,2x996+484MRU11	Ch0
	6425	95	95	OFDMA			
	6585~6745	127 to 159	127,159	OFDMA			
	6905	191	191	OFDMA			
RECEIVE RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION		ANTENNA PORT	
802.11a	5955~6415	1 to 93	45	OFDM		Rx	
	6435~6515	97 to 113	105				
	6535~6875	117 to 185	149				
	6895~7115	189 to 233	209				

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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2 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)	In-band emission	Compliant	
§15.205 §15.209 §15.407 (b)(6)	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	N/A	
§15.407(c)	Transmission in case of Absence of Information	Compliant	
§15.407(d)(10)	Transmitter Power Control	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 TERF2504001442E2.

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2.1 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 C63.10-2020

Schedule 1 Table 8 Item 13 RLAN radiocommunications transmitters 5925–6585 MHz (250mW)

Schedule 1 Table 8 Item 14 RLAN radiocommunications transmitters 5925–6585 MHz (250W)

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2.2 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		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 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	FPGAC503000A0	22.1~24.1°C / 64~52%	2025/05/16 ~ 2026/03/09
Conducted-CBP (Client Mode)	Conducted B	Ari	FPGAC5040001E	21.8~25.2°C / 59~63%	2025/07/24 ~ 2025/07/25
Conducted-CBP (P to P Mode)	Conducted B	Ari	FPGAJ54700106	23.5~24°C / 52~58%	2026/03/17 ~ 2026/03/18
Radiated	SAC D	Temo Chen	FPGAC50600016	21.0~26.0°C / 50~70%	2025/05/19 ~ 2025/08/04
Conduction	Conduction C	Temo Chen	FPGAC50600016	26°C / 68%	2025/05/28 ~ 2025/05/28

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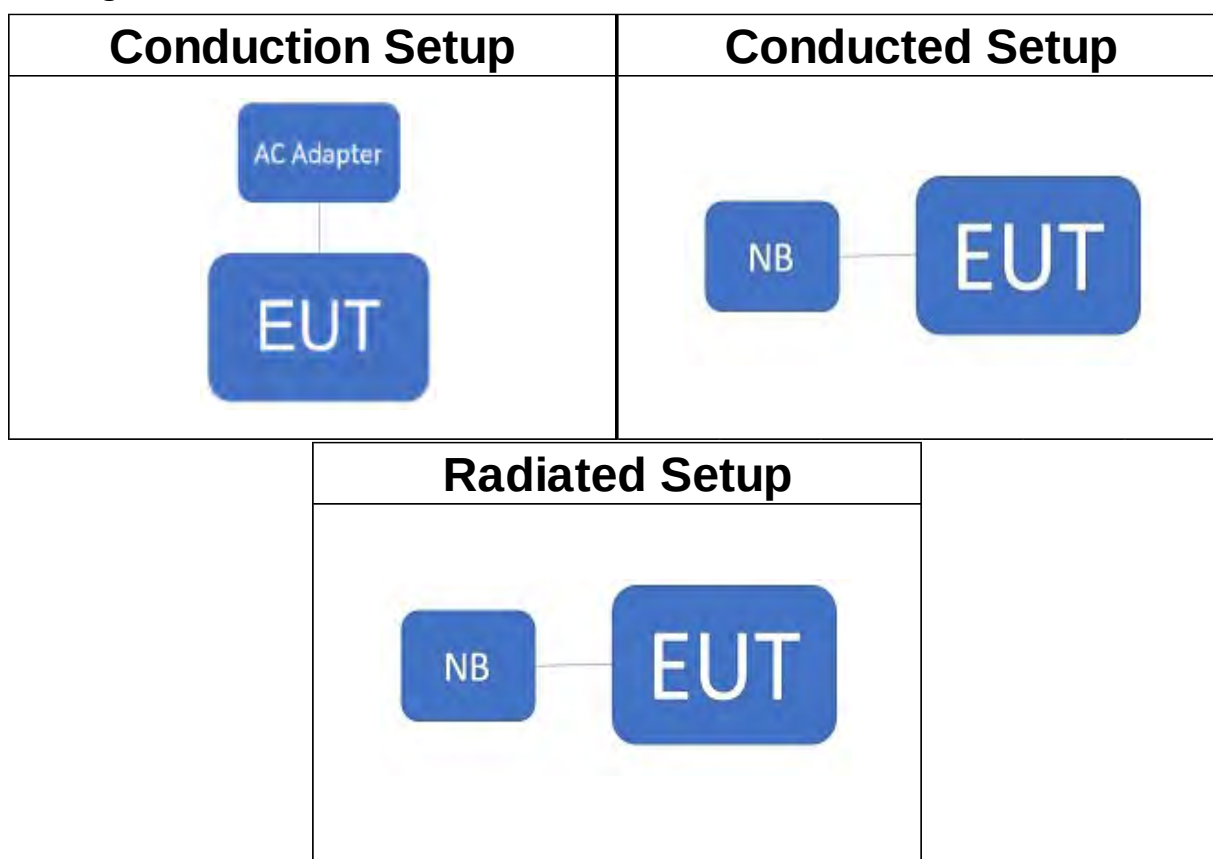
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

1. An engineering test mode provided by the applicant was used to control the EUT transmission, test channel, and modulation.
2. The spectrum analyzer offset was set to compensate for RF cable loss and attenuation between the EUT and the analyzer, ensuring the reading reflects the actual RF output level. Duty factor compensation was also applied where applicable.

3.2 Diagrams



3.3 List

3.3.1 Conduction setup

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Chicony	W20-045N1A	N/A	N/A	N/A

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3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
USB Cable	PowerSync	CUBCVARA0010	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	P0003860	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	HP	HSN-Q35C-4	P0004691	N/A	N/A
USB Cable	Songwin	TC-CH-BK	N/A	N/A	N/A

3.3.4 CBP Setup

P to P Mode

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
VR Device	Quanta Computer Inc.	Q38(EV3)	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	P0003870	N/A	N/A
Notebook	Lenovo	T490	P0002523	N/A	N/A

Client Mode

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AP	ASUS	BQ16Pro	S6IG6XK01679894 (FCC ID : MSQ-RTBE6X00)	N/A	N/A
Notebook	Lenovo	T14	P0002721	N/A	N/A
Notebook	Lenovo	T14	P0002852	N/A	N/A

3.3.5 Transmitter Power Control

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Companion	Quanta	3IQ385A0040	FPGAC52900058	N/A	N/A
Notebook	Lenovo	L430	P0000195	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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4 TEST INSTRUMENT

4.1 Emission from AC power line

Radiated Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2025	03/26/2026
EMI Test Receiver	Anritsu	N9038A	MY52260216	11/20/2024	11/19/2025
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/26/2024	06/25/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.2 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	RF25	11/14/2024	11/13/2025
Attenuator	Marvelous	MVE2213-10	RF25	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF35	11/14/2024	11/13/2025
DC Block	PASTERNAK	PE8210	RF35	11/13/2025	11/12/2026
Power Meter	Anritsu	ML2496A	1326001	08/19/2024	08/18/2025
Power Sensor	Anritsu	MA2411B	1315048	08/19/2024	08/18/2025
Power Sensor	Anritsu	MA2411B	1315049	08/19/2024	08/18/2025
Power Meter	Anritsu	ML2496A	1326001	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315048	07/29/2025	07/28/2026
Power Sensor	Anritsu	MA2411B	1315049	07/29/2025	07/28/2026
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	04/02/2025	04/01/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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4.3 Contention Based Protocol Measurement

P to P Mode

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	KEYSIGHT	11716C	RF45	11/13/2025	11/12/2026
Attenuator	Marvelous	MVE2213-30	RF26	11/13/2025	11/12/2026
Frequency Extender	Keysight	N5182BX07	MY59360223	03/04/2026	03/03/2027
Signal Generator	KEYSIGHT	N5182B	MY59100873	03/04/2026	03/03/2027
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/09/2026	01/08/2027
Splitter	Marvelous Microwave	MVE8586	RF49	11/13/2025	11/12/2026
Splitter	Marvelous Microwave	MVE8586	RF50	11/13/2025	11/12/2026
Splitter	Marvelous	MVE8576	RF58	11/13/2025	11/12/2026
Splitter	RF-LAMBDA	RFLT2W1G18G	RF51	11/13/2025	11/12/2026

Client Mode

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	KEYSIGHT	11716C	RF45	11/14/2024	11/13/2025
Frequency Extender	Keysight	N5182BX07	MY59360223	02/27/2025	02/26/2026
Signal Generator	KEYSIGHT	N5182B	MY59100873	02/27/2025	02/26/2026
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/06/2025	01/05/2026
Splitter	Marvelous	MVE8576	RF58	11/14/2024	11/13/2025
Splitter	Marvelous	MVE8576	RF59	11/14/2024	11/13/2025
Splitter	RF-LAMBDA	RFLT4W1G18G	RF62	11/14/2024	11/13/2025
Splitter	RF-LAMBDA	RFLT4W1G18G	RF63	11/14/2024	11/13/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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4.4 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber D	N/A	04/30/2025	04/29/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/11/2024	12/10/2025
Attenuator	Woken	WATT-218FS-10	RF17	11/14/2024	11/13/2025
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-617	12/17/2024	12/16/2025
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300	W22.01+W21.01+150707+MY969/4+16+190825+150702	11/14/2024	11/13/2025
Horn Antenna	Schwarzbeck	BBHA9120D	1187	02/05/2025	02/04/2026
Horn Antenna	Schwarzbeck	BBHA9120D	1341	05/29/2025	05/28/2026
Horn Antenna	Schwarzbeck	BBHA9170	184	12/20/2024	12/19/2025
High Pass Filter	Titan Microwave	T04H86002600060 S01	RF186	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/14/2024	11/13/2025
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/14/2024	11/13/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	10/16/2024	10/15/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.5 Transmitter Power Control

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	KEYSIGHT	11716C	RF45	11/13/2025	11/12/2026
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/09/2026	01/08/2027
Splitter	Marvelous Microwave	MVE8586	RF50	11/13/2025	11/12/2026

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

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5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

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

5.2 Maximum Output Power

5.2.1 Duty Cycle

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

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

EUT CATEGORY		Equip- ment Class	FCC §15.407(a)
☒	Very Low Power Devices	6VL	EIRP < 14dBm
☐	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 de- grees < 21dBm EIRP for outdoor use
☐	indoor Access Point	6ID	EIRP < 30dBm
☐	Subordinate Device	6PP	EIRP < 30dBm
☐	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 de- grees < 21dBm EIRP for outdoor use
☒	Indoor Client	6XD	EIRP < 24dBm
☐	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power
☐	Dual Client	6CD	Compliance both indoor client and standard client limit

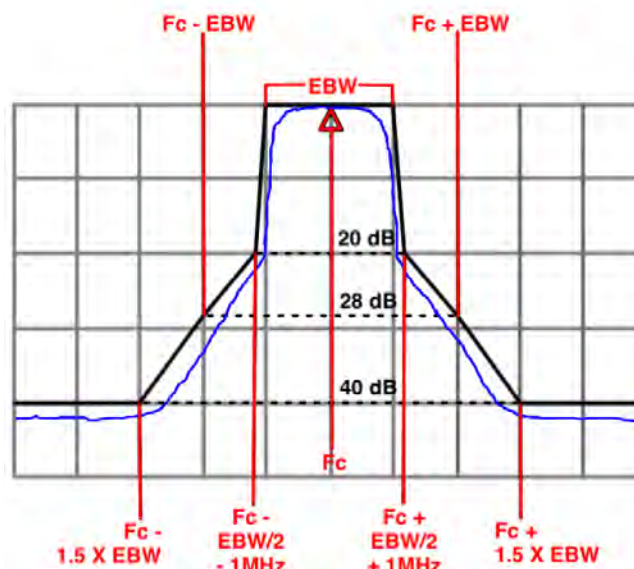
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5.3 Maximum Power Spectral Density

EUT CATEGORY		Equipment Class	FCC §15.407(a)
☒	Very low power devices	VLP	EIRP < -5dBm/MHz
☐	Standard Access Point	6SD	EIRP < 23dBm/MHz
☐	indoor Access Point	6ID	EIRP < 5dBm/MHz
☐	Subordinate Device	6PP	EIRP < 5dBm/MHz
☐	Fixed Client	6FC	EIRP < 23dBm/MHz
☒	Indoor Client	6XD	EIRP < -1dBm/MHz
☐	Standard Client	6FX	EIRP < 17dBm/MHz
☐	Dual Client	6CD	Compliance both indoor client and standard client limit

5.4 In-Band Emission



For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB

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suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

5.5 Unwanted Emissions

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits.

Measurements below and above 1000 MHz. Unwanted emissions outside of restricted bands are measured with a RMS detector. In addition, peak emissions must be limited to no more than 20 dB above the average limit

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz) AV: -27 (dBm/MHz)	Peak: 88.2 (dB μ V/m) AV: 68.2 (dB μ V/m)

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[m]) - 104.7$$

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log(d[m]) + 104.7$$

Below 1G and restricted limit

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- The lower limit shall apply at the transition frequencies.

5.6 Contention Based Protocol

Indoor access points, subordinate devices and client devices operating in the 5.925-

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7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission. Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

5.7 Power Adjustment Based On Associated AP

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

5.8 Transmitter Power Control

Very low power devices operating in the 5.925-7.125 GHz band shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

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5.9 AC Power Line Conducted Emission

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.

5.10 Transmission In The Absence Of Data

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

5.11 Antenna Requirements

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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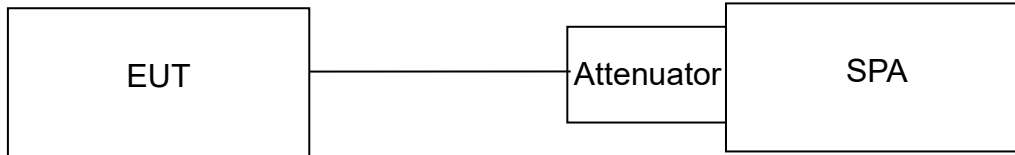
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6 TEST CONFIGURATION

6.1 Emission Bandwidth



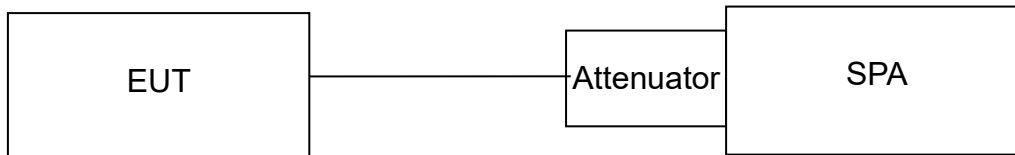
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
3. 26dB Bandwidth Measurement
 - a. Set the spectrum analyzer as
 - RBW = approximately 1% of emission BW
 - VBW > RBW
 - 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.
 - b. Use the X dB bandwidth mode function of the spectrum analyzer and set to 26dB
4. For 99% Bandwidth:
 - a. Set the spectrum analyzer as
 - RBW=1% to 5% of the 99%,
 - VBW ≥ 3*RBW,
 - Span = 1.5 times to 5.0 times the OBW,
 - Detector=Sample/Peak,
 - Sweep=auto.
 - b. Turn on the 99% bandwidth function, max reading.
5. Repeat above procedures until all frequency of interest measured was complete.

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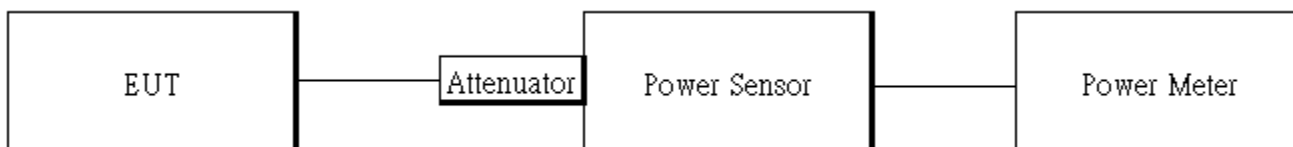
6.2 Maximum Output Power

6.2.1 Duty Cycle



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

6.2.2 Maximum Output Power



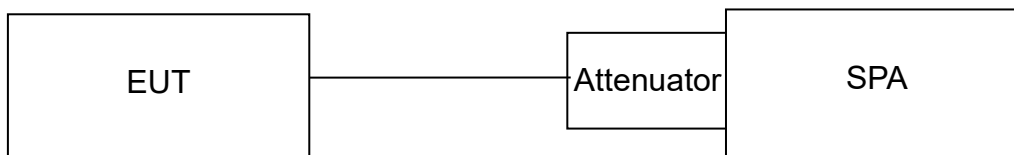
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
4. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.
7. The directional gain is calculated using the formula

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$$

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6.3 Maximum Power Spectral Density



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
3. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
4. Use the cursor on spectrum to peak search the highest level of trace
5. (1)Duty cycle $\geq 98\%$: Record the max. reading.
(2)Duty cycle $< 98\%$: Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.
7. When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.
8. The directional gain is calculated using the formula

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$$

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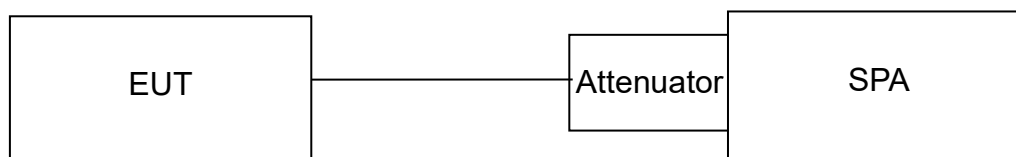
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6.4 In-Band Emission



1. Place the EUT on the table and set it in transmitting mode.
2. Set the span to encompass the entire 26 dB EBW of the signal
3. Set RBW = same RBW used for 26 dB EBW measurement
4. Set VBW $\geq 3 \times$ RBW
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging (rms) mode
9. Use the peak search function on the instrument to find the peak of the spectrum.
10. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.

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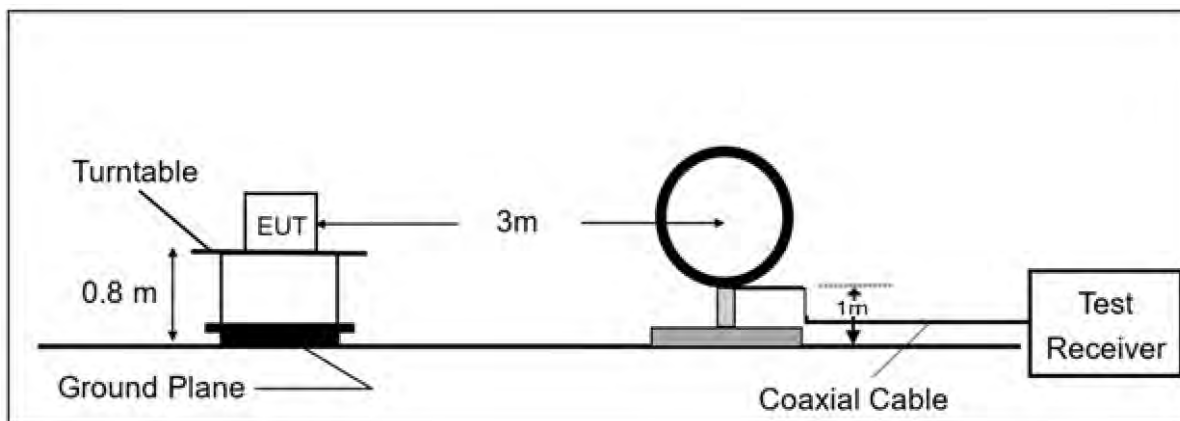
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6.5 Unwanted Emissions

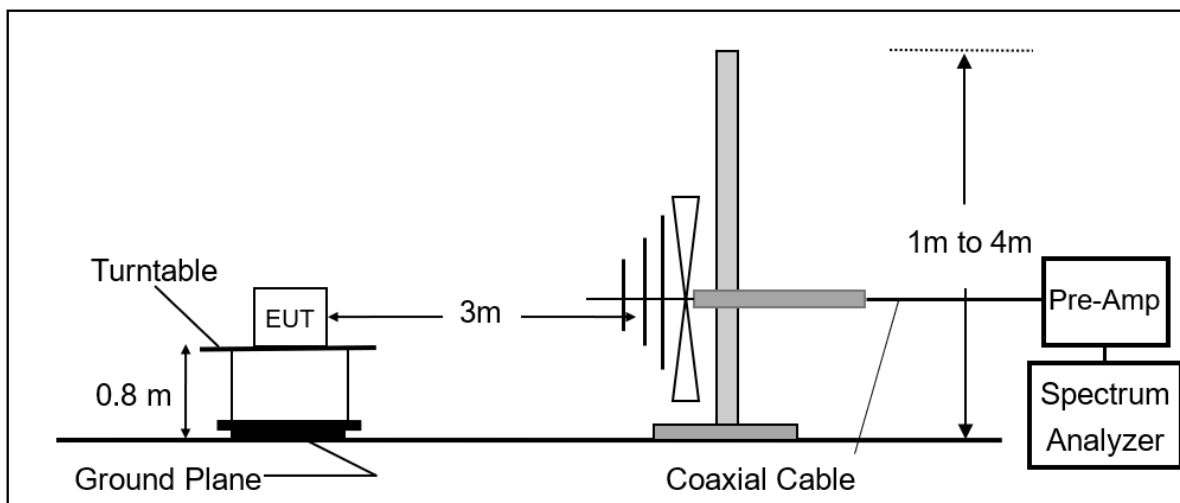
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.

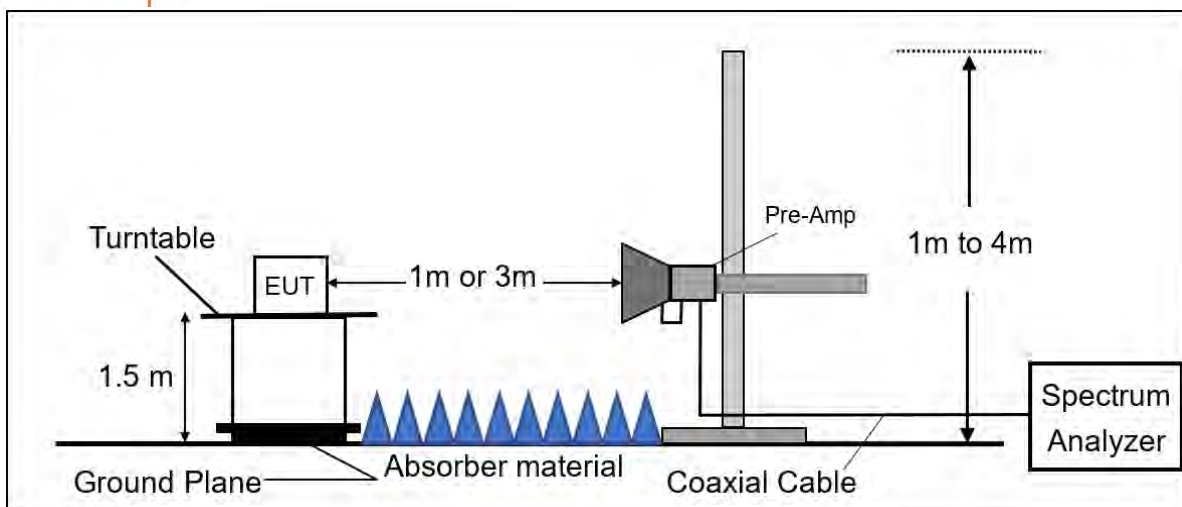


Radiated Emission Test Set-Up, Frequency Above 1GHz.

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1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
5. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is $[10 \log (1 / D)]$ for Average Emission measurements at frequency above 1 GHz **when $D \geq 98\%$** . If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
8. Set the spectrum analyzer as RBW=1 MHz, $VBW \geq 1/T$, Detector= Peak **when $D < 98\%$** for Average Emission Measurements at frequency above 1 GHz.
9. 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

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11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits, and hence not reported.

6.5.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

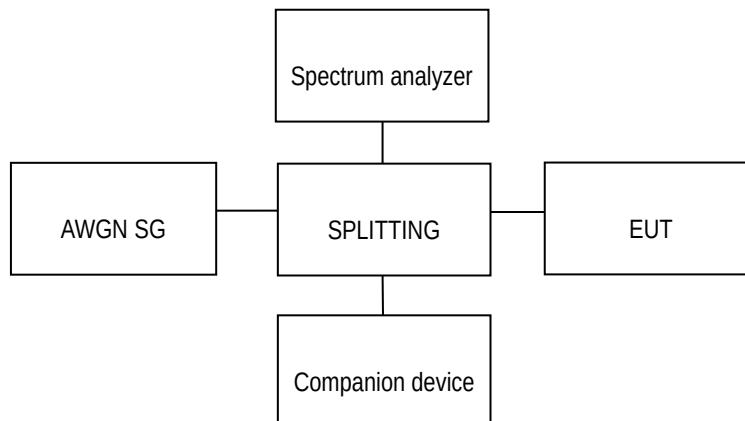
Where FS = Field Strength(dB μ V/m) CL = Cable Attenuation Factor (Cable Loss) (dB)
 RA = Reading Amplitude(dB μ V) AG = Amplifier Gain (dB)
 AF = Antenna Factor (dB μ V/m)

The limit of the emission level is expressed in dB μ V/m, which converts $20 \cdot \log(uV/m)$

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6.6 Contention Based Protocol



1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer, ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.
4. Using an AWGN signal source a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
5. Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the EUT.
6. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
7. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
8. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 4, choose a different center frequency for the AWGN signal and repeat the process (as figure1).

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Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

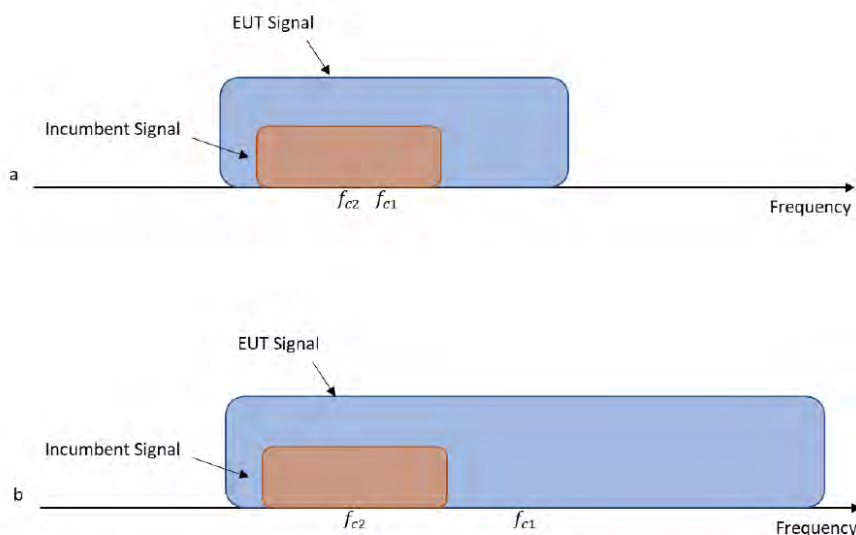


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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6.7 Power Adjustment Based On Associated AP

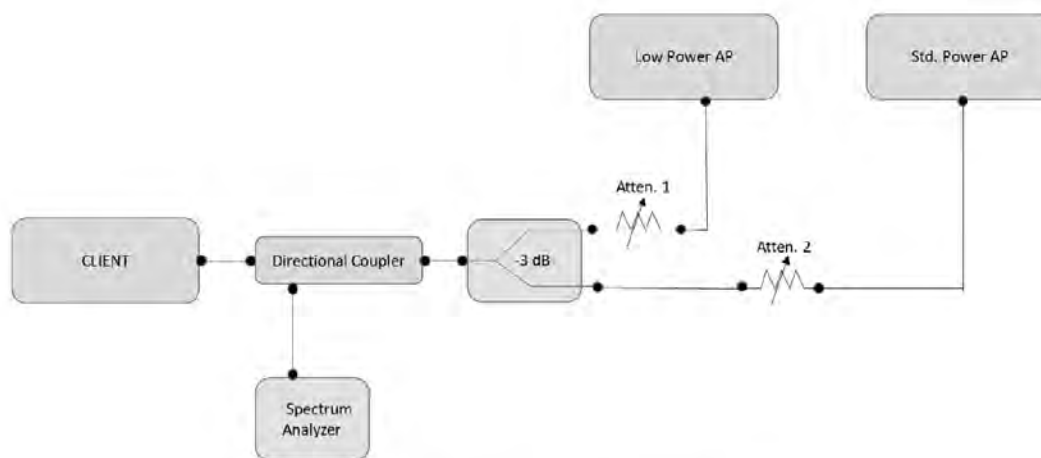


Figure 6. Test setup for conducted testing

1. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP).
2. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
3. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices. Note – if the client RF power has been certified to never operate above 24 dBm EIRP then this test is not necessary.
4. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indoor AP. Verify transmission between Client and Low Power AP.
5. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP.

Note – measuring Client RF power reliably from a directional coupler measurement port may be tricky. Due to coupling, some energy from the AP will show up on the measurement port. Signal isolation techniques on the measurement analyzer will need to be used.

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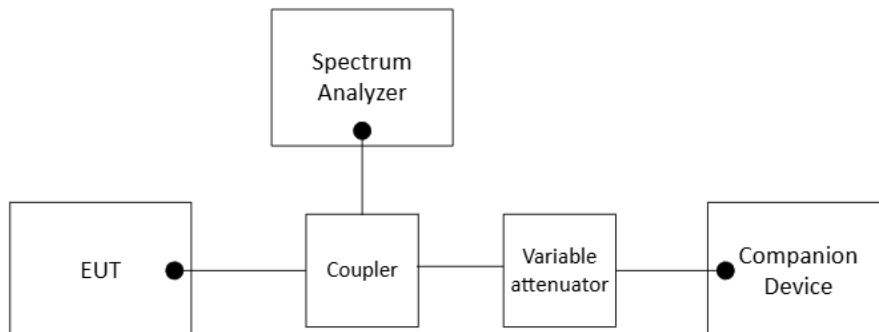
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6.8 Transmitter Power Control

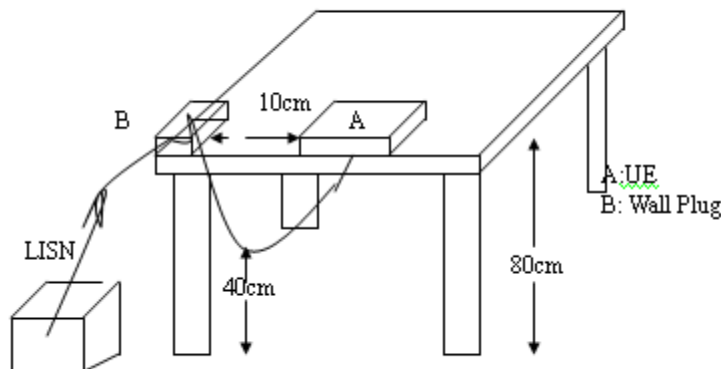


1. Configure EUT and companion device for peer-to-peer communication
2. Set variable attenuator to a high RSSI level to enable TPC function of the device (noise free spectral environment)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD from spectrum analyzer
5. Set variable attenuator to a low RSSI level to disable TPC function of the device (noisy spectral environment)
6. Capture PSD from spectrum analyzer
7. Compare the highest power from the step 4 to the highest power from the step 6 and determine the delta. For MIMO operations use the sum of the highest PSD from each individual antenna.

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6.9 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μ H / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

Level = Read Level + Factor

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

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7 TEST RESULTS

7.1 Emission Bandwidth

LPI

802.11a_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	16.859	22.24	320.00	Pass
45	6175	16.939	22.21	320.00	Pass
93	6415	16.875	22.58	320.00	Pass
97	6435	16.872	22.37	320.00	Pass
105	6475	16.880	22.76	320.00	Pass
113	6515	16.751	22.64	320.00	Pass
117	6535	16.829	22.64	320.00	Pass
149	6695	16.924	22.22	320.00	Pass
181	6855	16.910	22.91	320.00	Pass
185	6875	16.902	22.22	320.00	Pass
189	6895	16.872	22.54	320.00	Pass
209	6995	16.854	22.95	320.00	Pass
233	7115	16.908	22.74	320.00	Pass

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802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	16.950	22.68	320.00	Pass
45	6175	16.805	22.84	320.00	Pass
93	6415	16.977	22.53	320.00	Pass
97	6435	16.778	22.96	320.00	Pass
105	6475	16.857	22.99	320.00	Pass
113	6515	16.841	22.57	320.00	Pass
117	6535	16.839	22.65	320.00	Pass
149	6695	16.966	22.35	320.00	Pass
181	6855	16.906	22.63	320.00	Pass
185	6875	16.794	22.24	320.00	Pass
189	6895	16.899	22.90	320.00	Pass
209	6995	16.887	22.35	320.00	Pass
233	7115	16.840	23.21	320.00	Pass

802.11n_HT20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	17.901	22.70	320.00	Pass
45	6175	17.906	23.24	320.00	Pass
93	6415	17.936	23.11	320.00	Pass
97	6435	17.941	23.16	320.00	Pass
105	6475	17.929	22.35	320.00	Pass
113	6515	17.869	22.70	320.00	Pass
117	6535	17.884	23.04	320.00	Pass
149	6695	17.956	23.49	320.00	Pass
181	6855	17.918	22.62	320.00	Pass
185	6875	18.002	22.95	320.00	Pass
189	6895	17.937	22.85	320.00	Pass
209	6995	17.914	22.96	320.00	Pass
233	7115	17.904	23.45	320.00	Pass

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802.11n_HT20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	17.910	22.56	320.00	Pass
45	6175	17.922	23.16	320.00	Pass
93	6415	17.973	22.51	320.00	Pass
97	6435	17.959	23.53	320.00	Pass
105	6475	17.935	23.09	320.00	Pass
113	6515	17.981	23.20	320.00	Pass
117	6535	17.955	22.66	320.00	Pass
149	6695	17.850	23.26	320.00	Pass
181	6855	17.882	22.61	320.00	Pass
185	6875	18.005	22.94	320.00	Pass
189	6895	18.003	22.67	320.00	Pass
209	6995	17.883	22.76	320.00	Pass
233	7115	17.905	22.96	320.00	Pass

802.11n_HT40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
3	5965	36.377	43.86	320.00	Pass
43	6165	36.416	42.72	320.00	Pass
91	6405	36.397	43.33	320.00	Pass
99	6445	36.330	44.49	320.00	Pass
107	6485	36.488	43.36	320.00	Pass
115	6525	36.455	43.67	320.00	Pass
123	6565	36.560	43.80	320.00	Pass
147	6685	36.444	43.38	320.00	Pass
179	6845	36.427	42.82	320.00	Pass
187	6885	36.431	43.68	320.00	Pass
195	6925	36.332	42.94	320.00	Pass
211	7005	36.294	42.61	320.00	Pass
227	7085	36.403	42.64	320.00	Pass

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802.11n_HT40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
3	5965	36.522	43.61	320.00	Pass
43	6165	36.426	43.34	320.00	Pass
91	6405	36.454	42.95	320.00	Pass
99	6445	36.351	43.42	320.00	Pass
107	6485	36.482	42.44	320.00	Pass
115	6525	36.371	43.47	320.00	Pass
123	6565	36.382	43.61	320.00	Pass
147	6685	36.498	44.27	320.00	Pass
179	6845	36.337	43.42	320.00	Pass
187	6885	36.436	43.58	320.00	Pass
195	6925	36.439	43.68	320.00	Pass
211	7005	36.407	43.82	320.00	Pass
227	7085	36.354	43.90	320.00	Pass

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
7	5985	76.203	89.32	320.00	Pass
39	6145	76.305	88.44	320.00	Pass
87	6385	76.374	88.16	320.00	Pass
103	6465	76.158	90.41	320.00	Pass
119	6545	76.110	90.27	320.00	Pass
135	6625	76.207	90.85	320.00	Pass
151	6705	76.106	89.62	320.00	Pass
167	6785	76.236	89.78	320.00	Pass
183	6865	76.099	88.75	320.00	Pass
199	6945	76.123	90.99	320.00	Pass
215	7025	76.225	87.81	320.00	Pass

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
7	5985	76.256	88.74	320.00	Pass
39	6145	76.164	88.69	320.00	Pass
87	6385	76.074	88.03	320.00	Pass
103	6465	76.203	90.57	320.00	Pass
119	6545	76.319	89.26	320.00	Pass
135	6625	76.274	90.85	320.00	Pass
151	6705	76.258	89.19	320.00	Pass
167	6785	76.152	88.70	320.00	Pass
183	6865	76.196	88.31	320.00	Pass
199	6945	76.233	89.63	320.00	Pass
215	7025	76.322	89.23	320.00	Pass

802.11ac_VHT160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
15	6025	154.577	171.43	320.00	Pass
47	6185	155.214	169.44	320.00	Pass
79	6345	155.278	172.15	320.00	Pass
111	6505	155.010	171.80	320.00	Pass
143	6665	155.170	169.53	320.00	Pass
175	6825	155.200	169.20	320.00	Pass
207	6985	154.947	172.92	320.00	Pass

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802.11ac_VHT160_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
15	6025	155.097	171.03	320.00	Pass
47	6185	154.978	169.53	320.00	Pass
79	6345	155.250	170.46	320.00	Pass
111	6505	154.630	169.50	320.00	Pass
143	6665	154.962	170.93	320.00	Pass
175	6825	155.220	171.50	320.00	Pass
207	6985	155.105	171.60	320.00	Pass

802.11be_EHT20_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	19.056	23.01	320.00	Pass
45	6175	19.043	22.49	320.00	Pass
93	6415	19.128	22.72	320.00	Pass
97	6435	19.073	22.23	320.00	Pass
105	6475	19.070	22.29	320.00	Pass
113	6515	19.085	22.44	320.00	Pass
117	6535	19.029	22.30	320.00	Pass
149	6695	19.122	22.79	320.00	Pass
181	6855	19.080	23.07	320.00	Pass
185	6875	19.058	22.67	320.00	Pass
189	6895	19.066	23.13	320.00	Pass
209	6995	19.084	22.14	320.00	Pass
233	7115	19.062	21.87	320.00	Pass

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802.11be_EHT20_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
1	5955	19.109	22.68	320.00	Pass
45	6175	19.125	21.88	320.00	Pass
93	6415	19.106	22.54	320.00	Pass
97	6435	19.087	22.53	320.00	Pass
105	6475	19.064	22.84	320.00	Pass
113	6515	19.054	22.05	320.00	Pass
117	6535	19.087	22.27	320.00	Pass
149	6695	19.009	22.15	320.00	Pass
181	6855	19.030	22.86	320.00	Pass
185	6875	19.042	22.93	320.00	Pass
189	6895	19.078	22.76	320.00	Pass
209	6995	19.103	22.67	320.00	Pass
233	7115	19.028	22.14	320.00	Pass

802.11be_EHT40_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
3	5965	38.003	42.84	320.00	Pass
43	6165	37.990	42.92	320.00	Pass
91	6405	37.993	42.70	320.00	Pass
99	6445	37.913	42.95	320.00	Pass
107	6485	37.936	42.88	320.00	Pass
115	6525	37.900	42.70	320.00	Pass
123	6565	37.938	42.55	320.00	Pass
147	6685	37.939	43.25	320.00	Pass
179	6845	37.945	42.05	320.00	Pass
187	6885	37.966	42.24	320.00	Pass
195	6925	38.018	43.31	320.00	Pass
211	7005	37.922	42.55	320.00	Pass
227	7085	37.913	42.93	320.00	Pass

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802.11be_EHT40_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
3	5965	37.852	42.04	320.00	Pass
43	6165	37.984	42.95	320.00	Pass
91	6405	37.966	42.52	320.00	Pass
99	6445	37.943	41.92	320.00	Pass
107	6485	37.966	43.13	320.00	Pass
115	6525	37.909	42.76	320.00	Pass
123	6565	37.964	42.63	320.00	Pass
147	6685	37.898	43.50	320.00	Pass
179	6845	38.013	42.56	320.00	Pass
187	6885	37.845	42.37	320.00	Pass
195	6925	37.941	42.94	320.00	Pass
211	7005	37.923	42.79	320.00	Pass
227	7085	37.879	42.49	320.00	Pass

802.11be_EHT80_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
7	5985	77.695	87.36	320.00	Pass
39	6145	77.753	88.00	320.00	Pass
87	6385	77.866	86.60	320.00	Pass
103	6465	77.564	85.68	320.00	Pass
119	6545	77.618	85.93	320.00	Pass
135	6625	77.622	87.48	320.00	Pass
151	6705	77.569	87.99	320.00	Pass
167	6785	77.672	87.24	320.00	Pass
183	6865	77.737	87.61	320.00	Pass
199	6945	77.660	85.91	320.00	Pass
215	7025	77.611	88.09	320.00	Pass

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802.11be_EHT80_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
7	5985	77.760	86.89	320.00	Pass
39	6145	77.680	87.06	320.00	Pass
87	6385	77.653	86.62	320.00	Pass
103	6465	77.664	85.96	320.00	Pass
119	6545	77.655	88.45	320.00	Pass
135	6625	77.736	84.80	320.00	Pass
151	6705	77.743	86.24	320.00	Pass
167	6785	77.767	86.71	320.00	Pass
183	6865	77.692	86.93	320.00	Pass
199	6945	77.623	87.69	320.00	Pass
215	7025	77.504	85.73	320.00	Pass

802.11be_EHT160_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
15	6025	155.692	169.56	320.00	Pass
47	6185	156.201	166.82	320.00	Pass
79	6345	156.493	167.00	320.00	Pass
111	6505	156.980	165.10	320.00	Pass
143	6665	156.651	166.79	320.00	Pass
175	6825	157.130	174.30	320.00	Pass
207	6985	156.922	164.50	320.00	Pass

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802.11be_EHT160_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
15	6025	156.678	168.39	320.00	Pass
47	6185	156.543	165.13	320.00	Pass
79	6345	156.757	171.22	320.00	Pass
111	6505	156.320	168.40	320.00	Pass
143	6665	156.351	169.63	320.00	Pass
175	6825	157.030	170.70	320.00	Pass
207	6985	156.321	167.26	320.00	Pass

802.11be_EHT320_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
31	6105	314.703	334.37	320.00	Pass
63	6265	313.573	332.24	320.00	Pass
95	6425	315.190	333.00	320.00	Pass
127	6585	314.350	332.00	320.00	Pass
159	6745	314.040	330.30	320.00	Pass
191	6905	314.600	332.10	320.00	Pass

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802.11be_EHT320_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)	Limit (MHz)	RESULT
31	6105	314.097	329.72	320.00	Pass
63	6265	314.891	332.35	320.00	Pass
95	6425	312.990	330.80	320.00	Pass
127	6585	314.060	332.30	320.00	Pass
159	6745	315.130	330.70	320.00	Pass
191	6905	314.580	329.90	320.00	Pass

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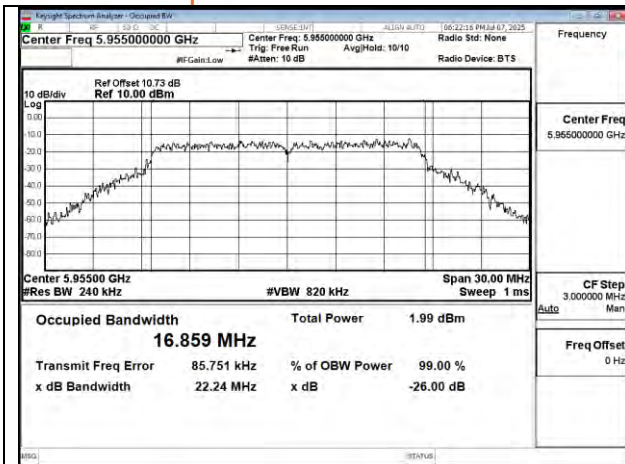
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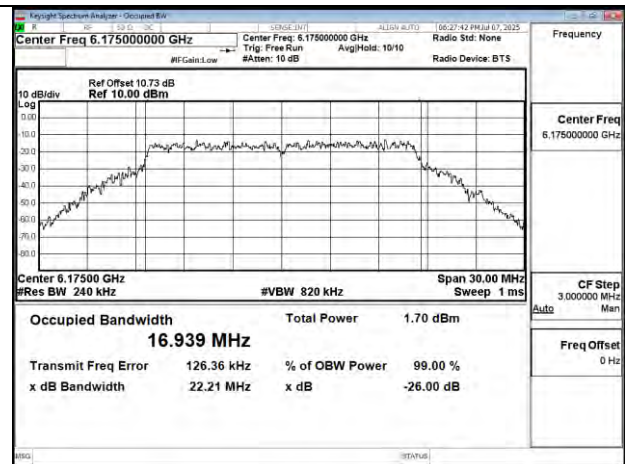
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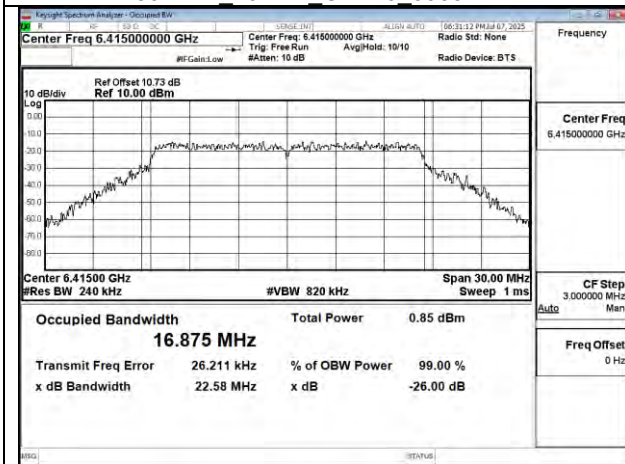
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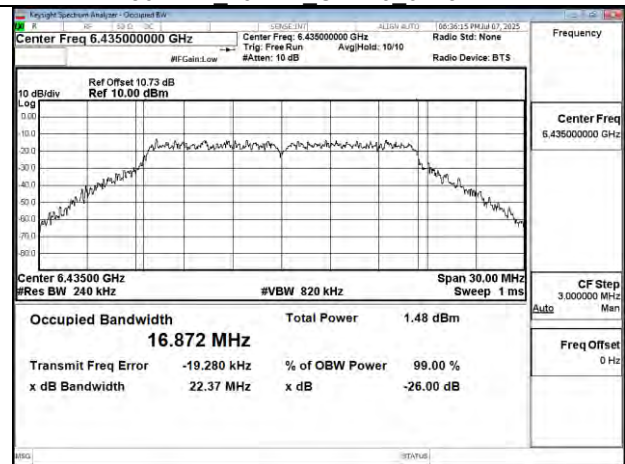
802.11a 20MHz Chain0 5955MHz



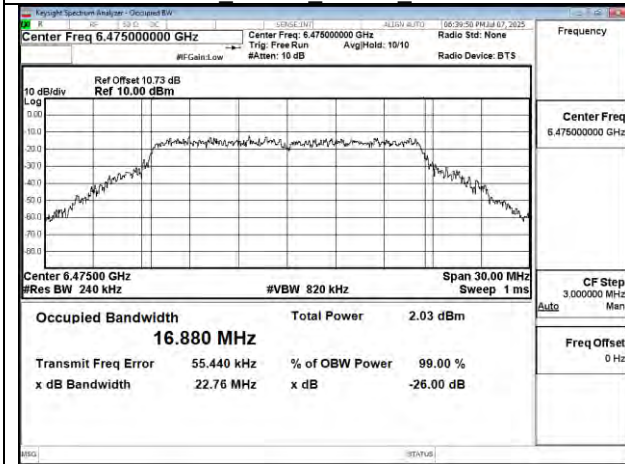
802.11a 20MHz Chain0 6175MHz



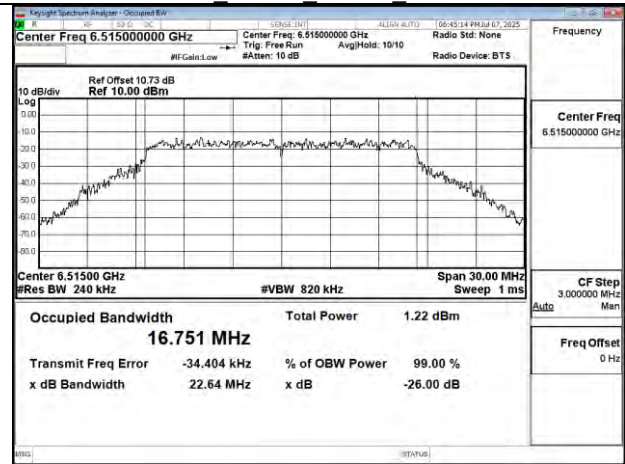
802.11a 20MHz Chain0 6415MHz



802.11a 20MHz Chain0 6435MHz



802.11a 20MHz Chain0 6475MHz

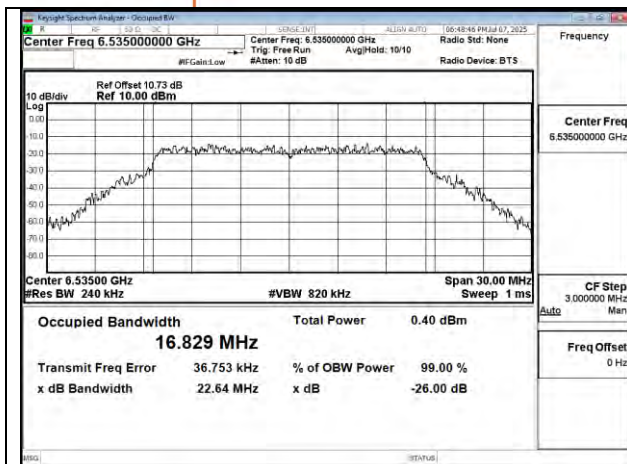


802.11a 20MHz Chain0 6515MHz

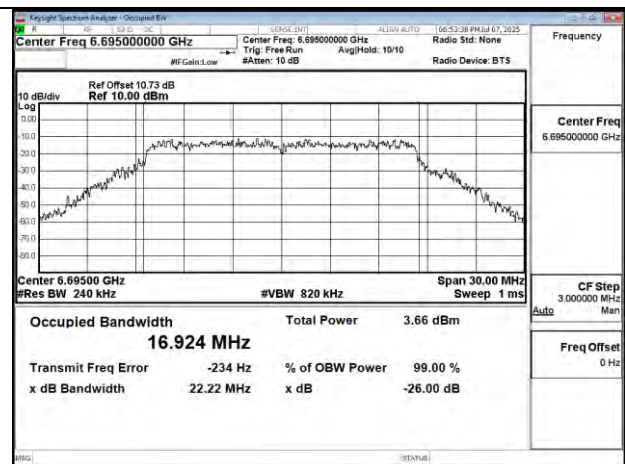
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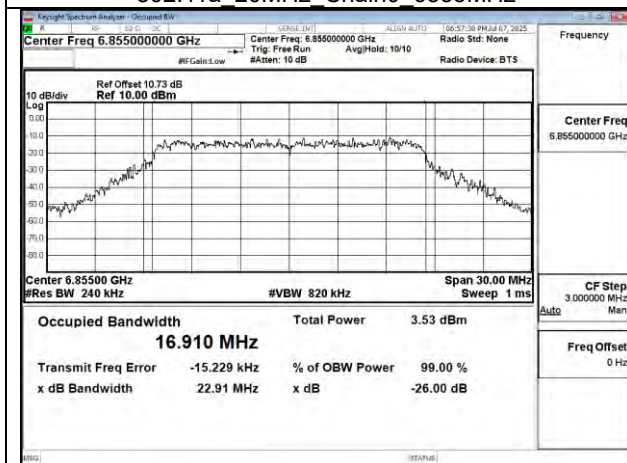
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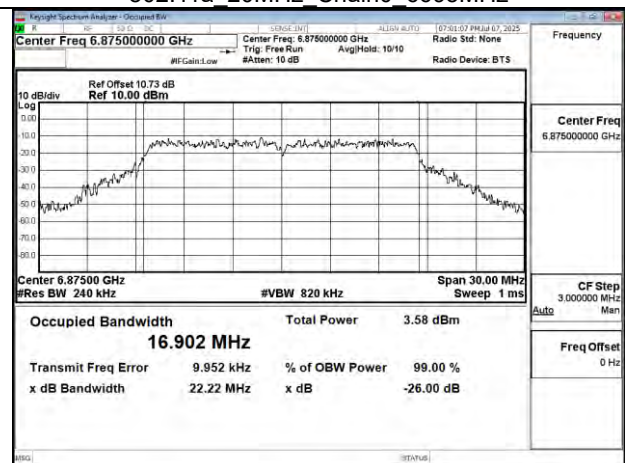
802.11a 20MHz Chain0 6535MHz



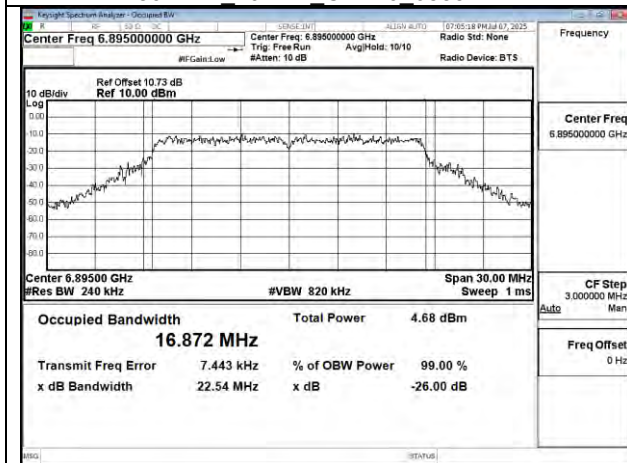
802.11a 20MHz Chain0 6695MHz



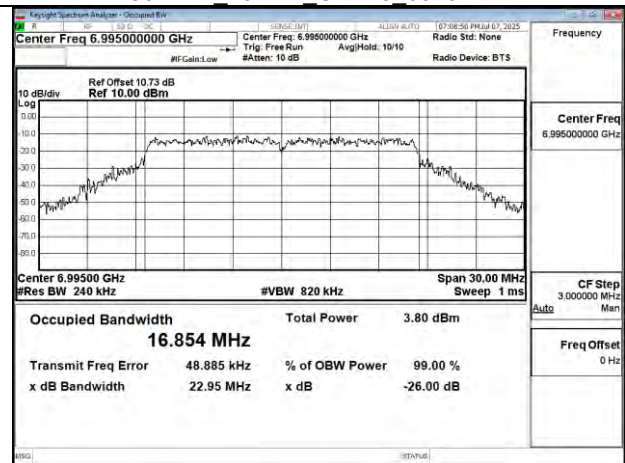
802.11a 20MHz Chain0 6855MHz



802.11a 20MHz Chain0 6875MHz



802.11a 20MHz Chain0 6895MHz

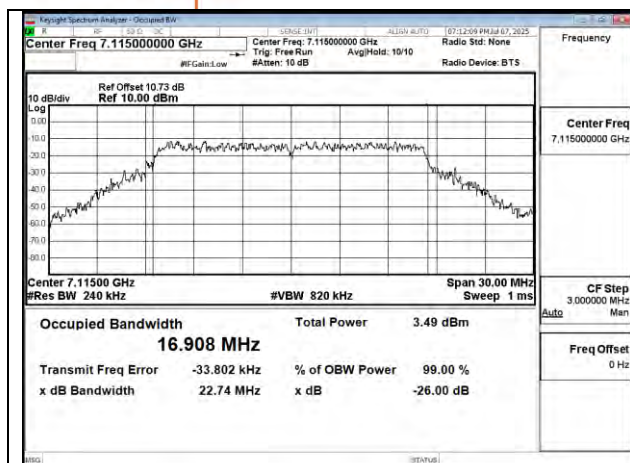


802.11a 20MHz Chain0 6995MHz

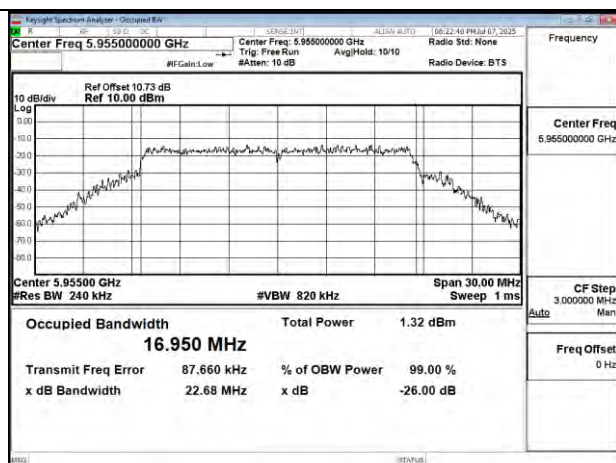
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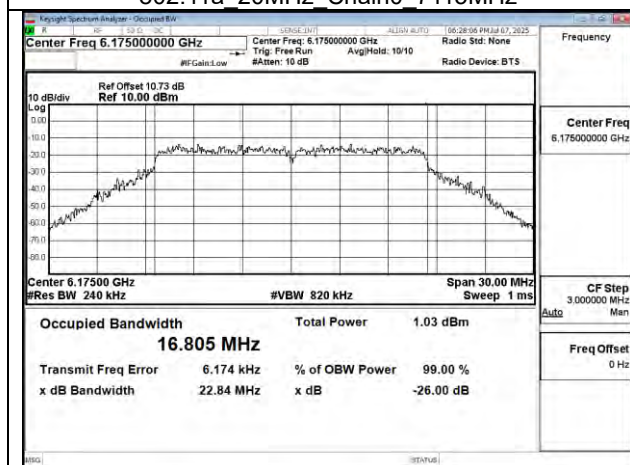
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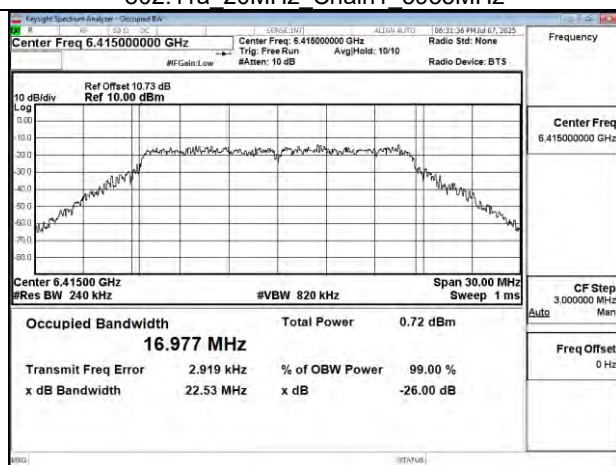
802.11a 20MHz Chain0 7115MHz



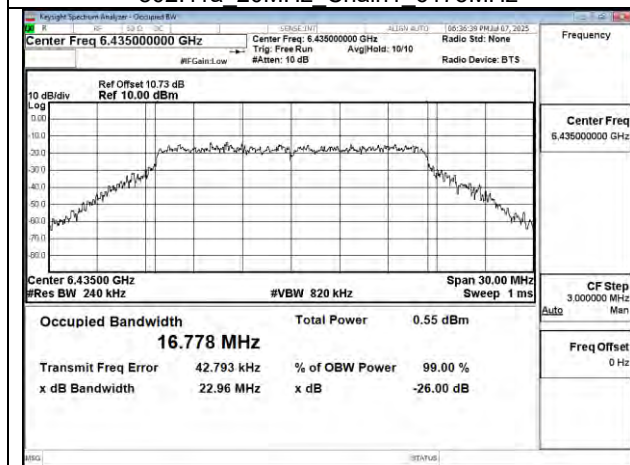
802.11a 20MHz Chain1 5955MHz



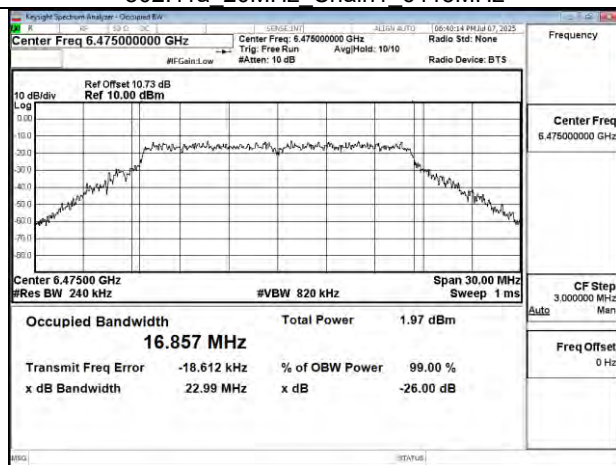
802.11a 20MHz Chain1 6175MHz



802.11a 20MHz Chain1 6415MHz



802.11a 20MHz Chain1 6435MHz

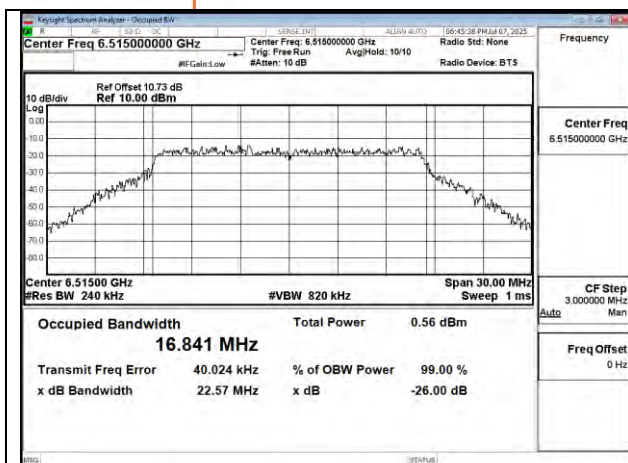


802.11a 20MHz Chain1 6475MHz

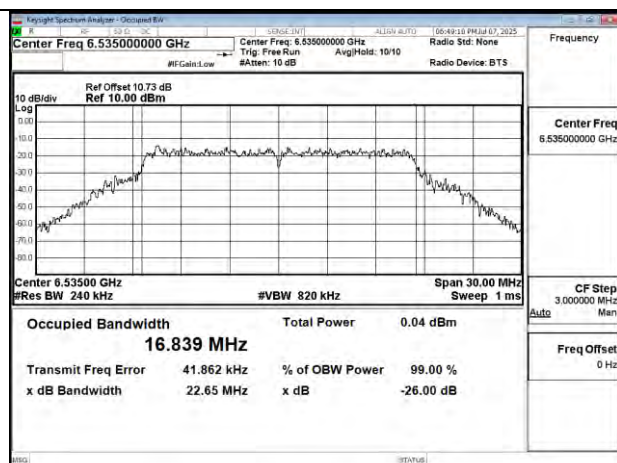
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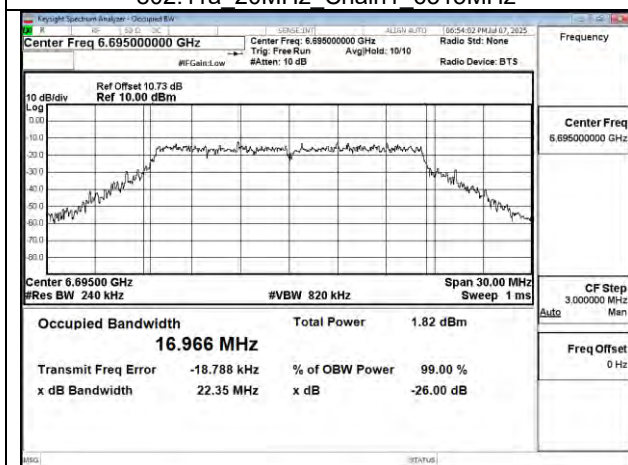
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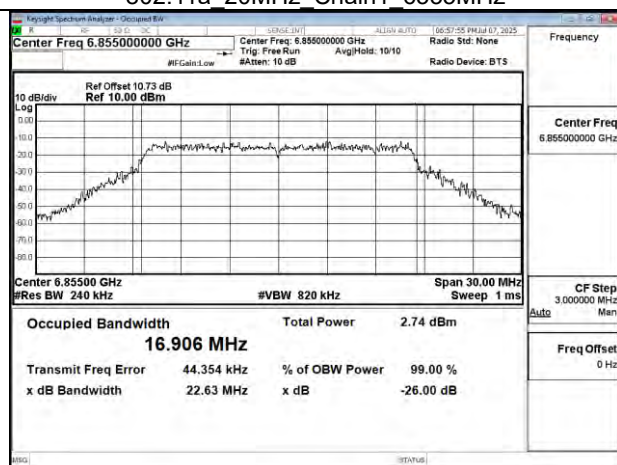
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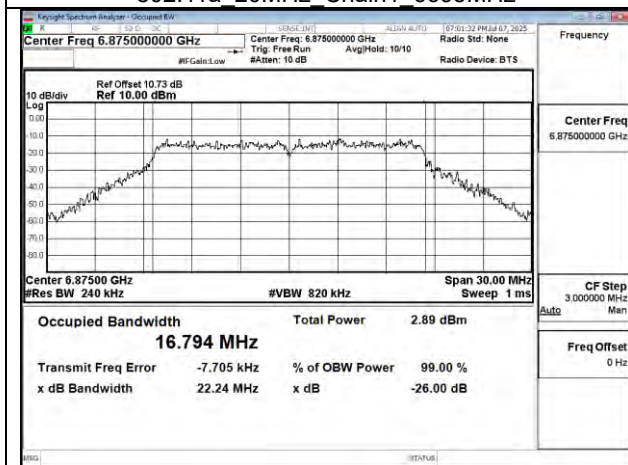
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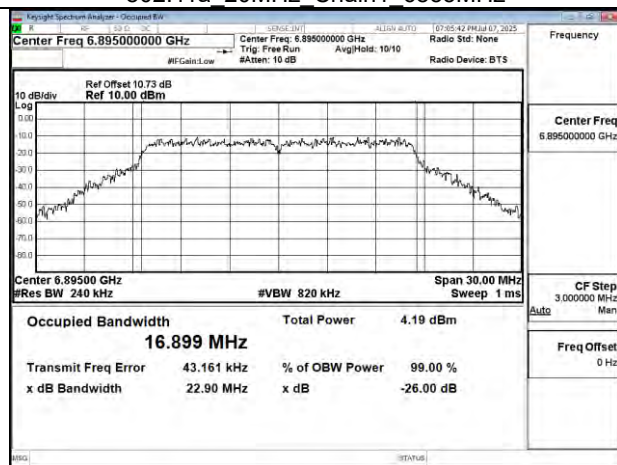
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802.11a 20MHz Chain1 6855MHz



802.11a 20MHz Chain1 6875MHz

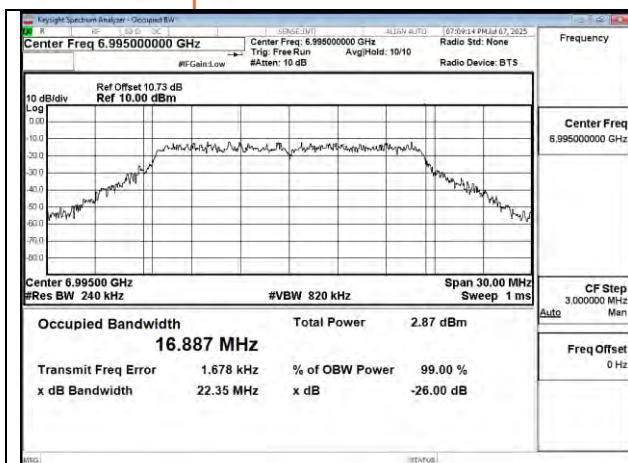


802.11a 20MHz Chain1 6895MHz

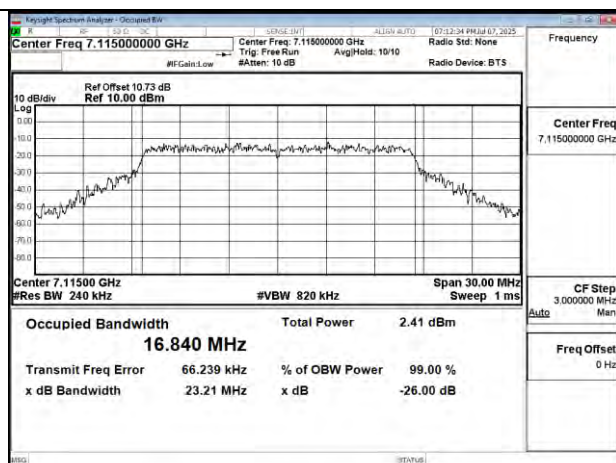
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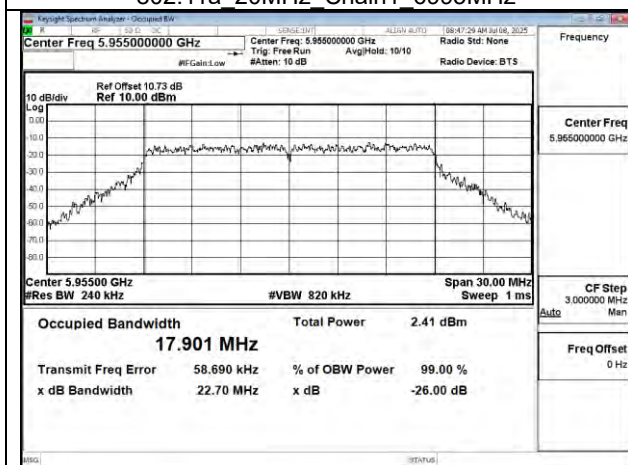
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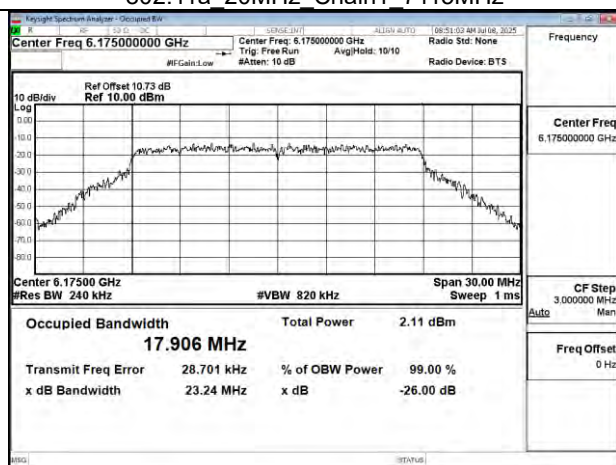
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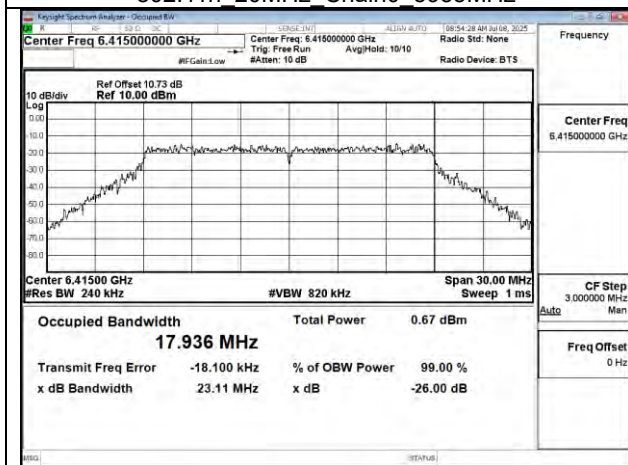
802.11a 20MHz Chain1 7115MHz



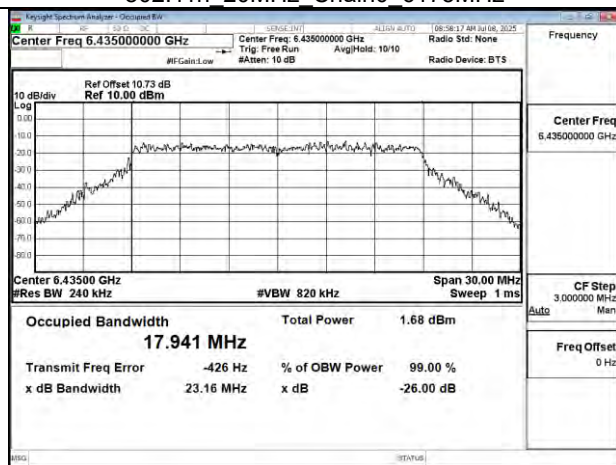
802.11n 20MHz Chain0 5955MHz



802.11n 20MHz Chain0 6175MHz



802.11n 20MHz Chain0 6415MHz

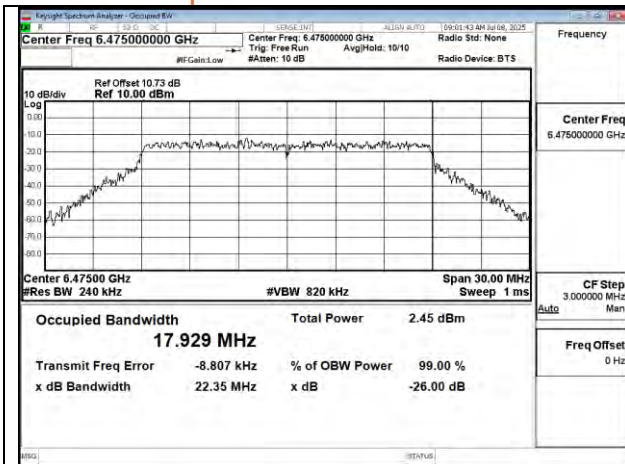


802.11n 20MHz Chain0 6435MHz

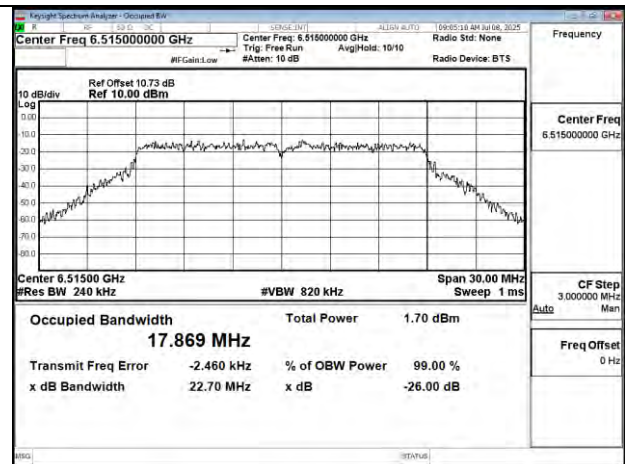
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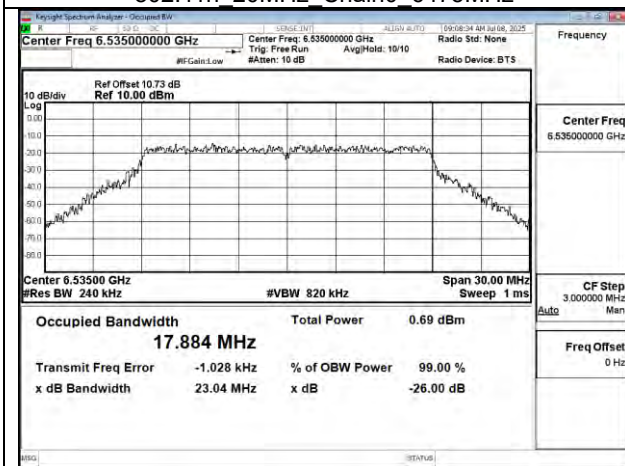
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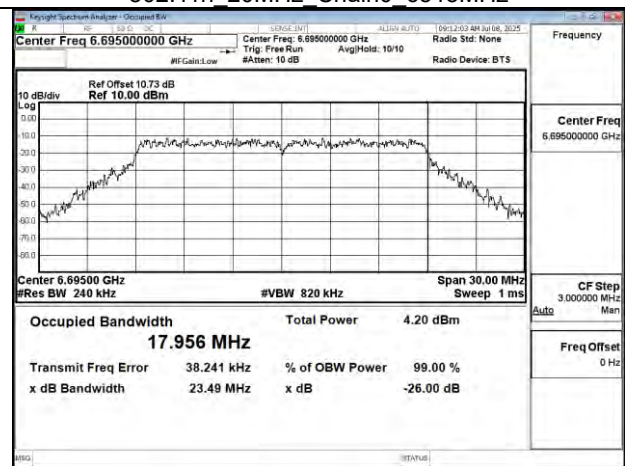
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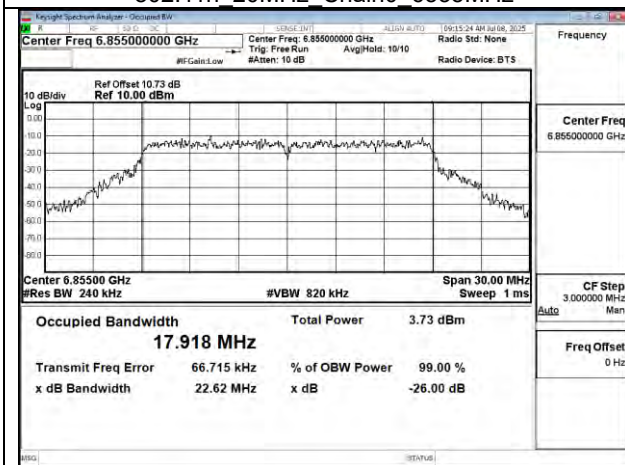
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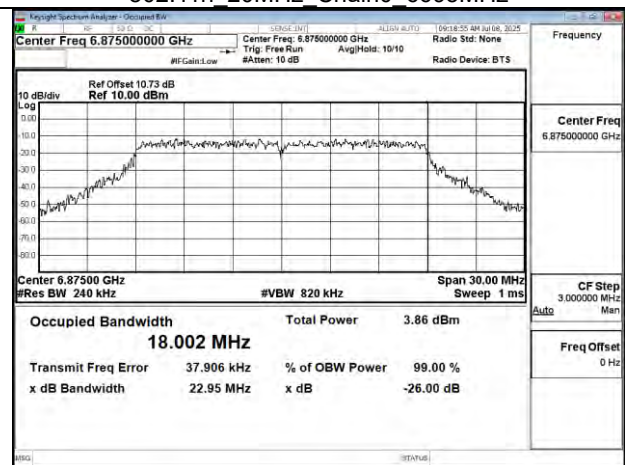
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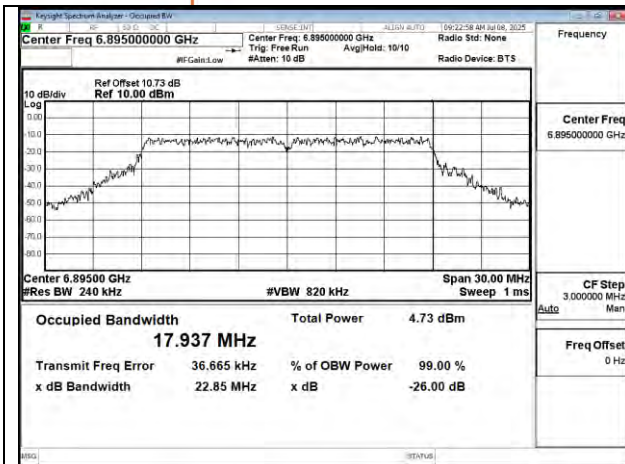


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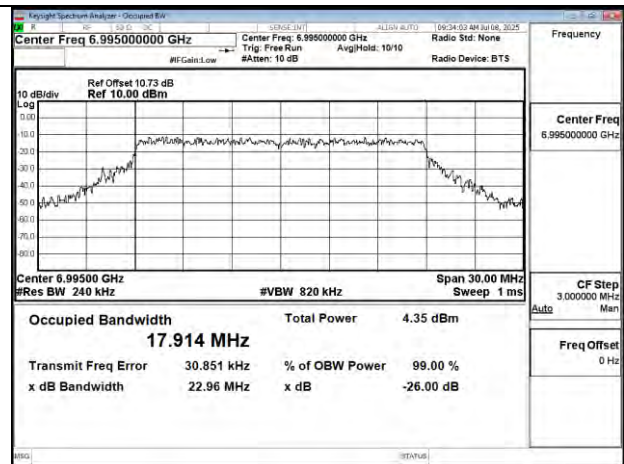
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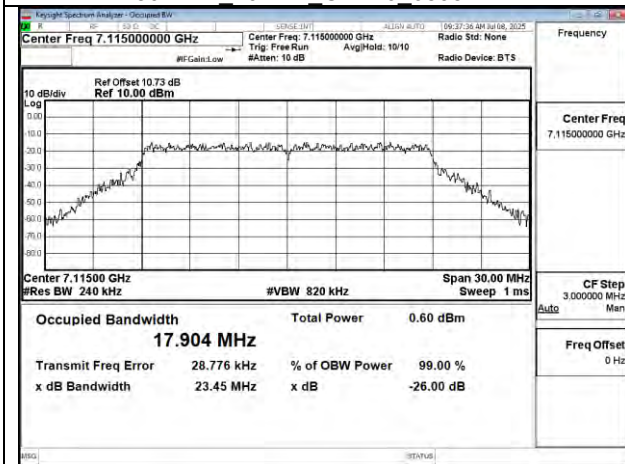
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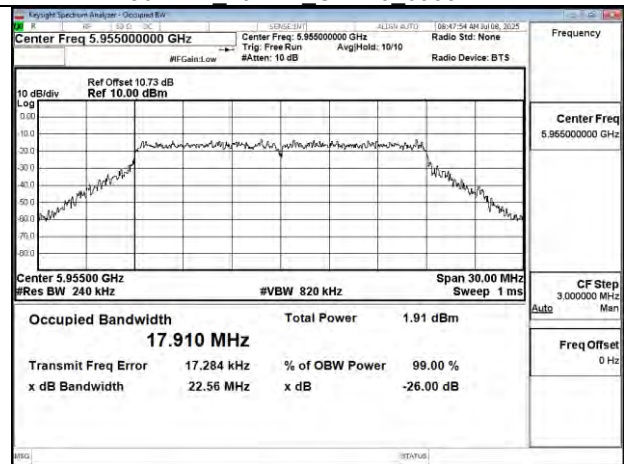
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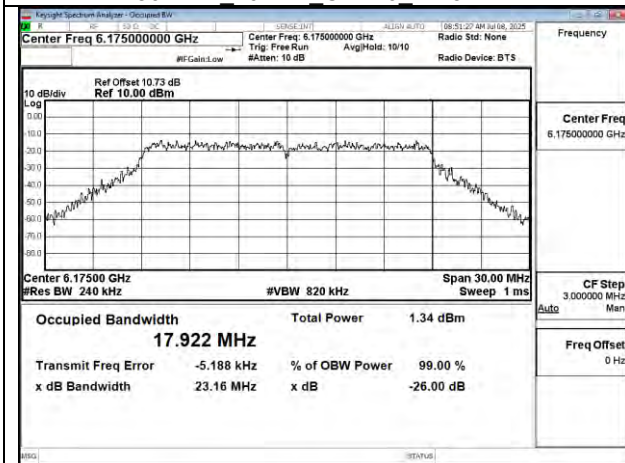
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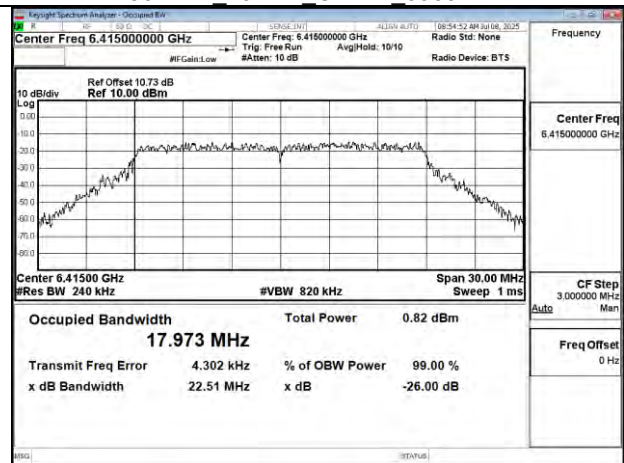
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802.11n 20MHz Chain1 5955MHz



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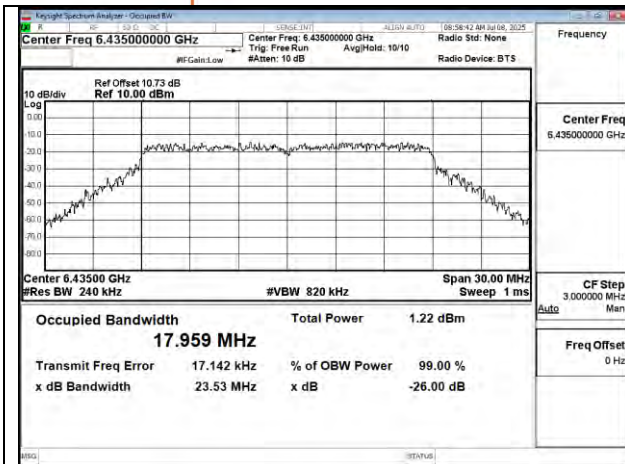


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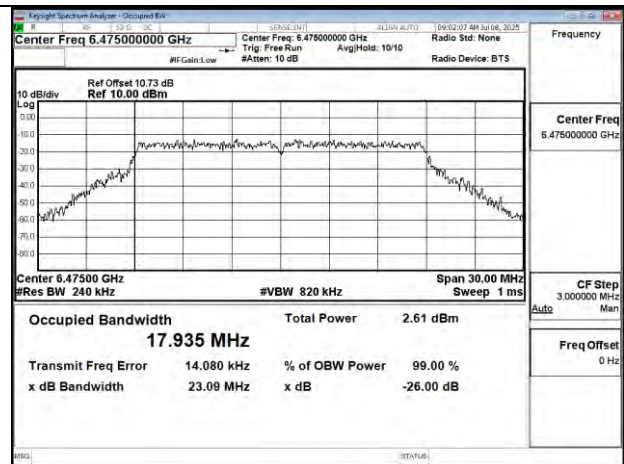
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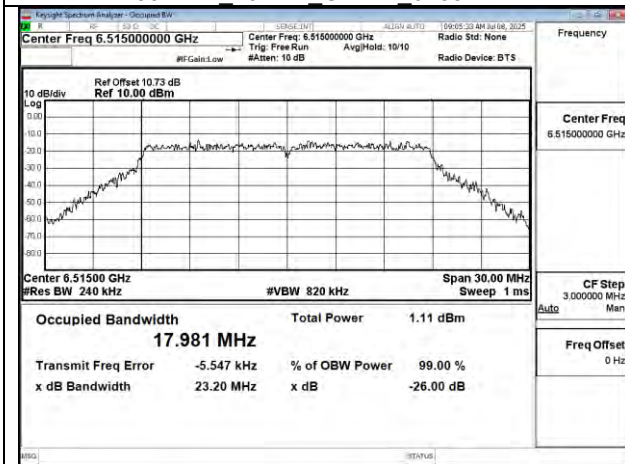
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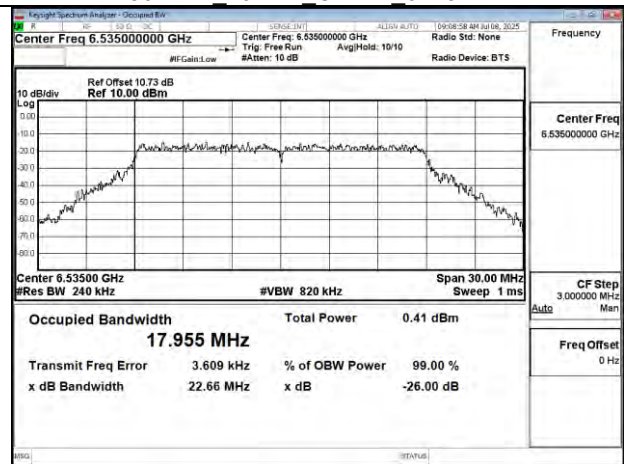
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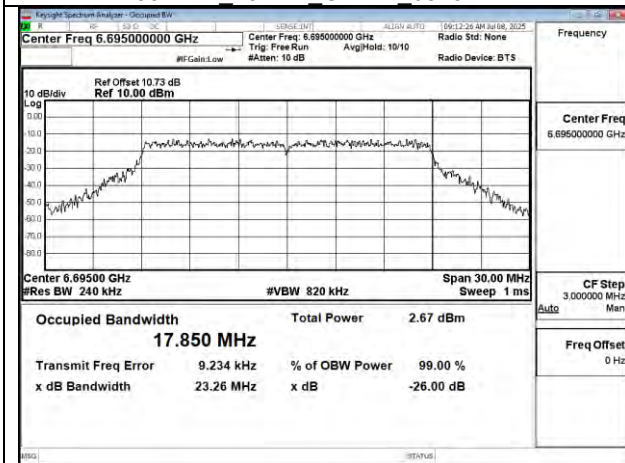
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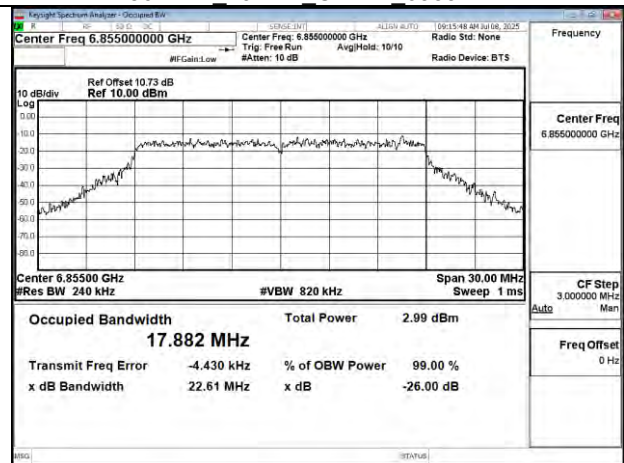
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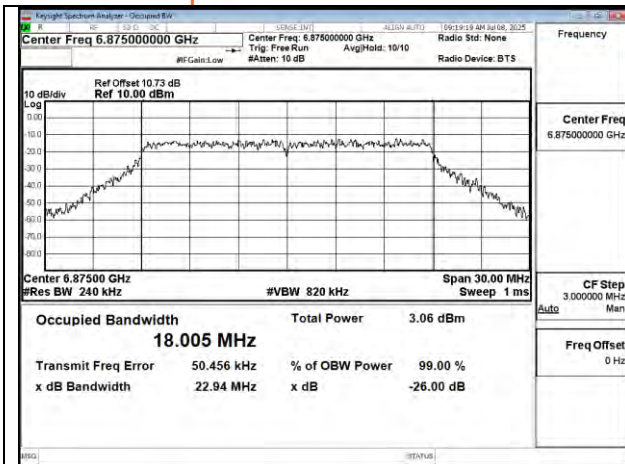


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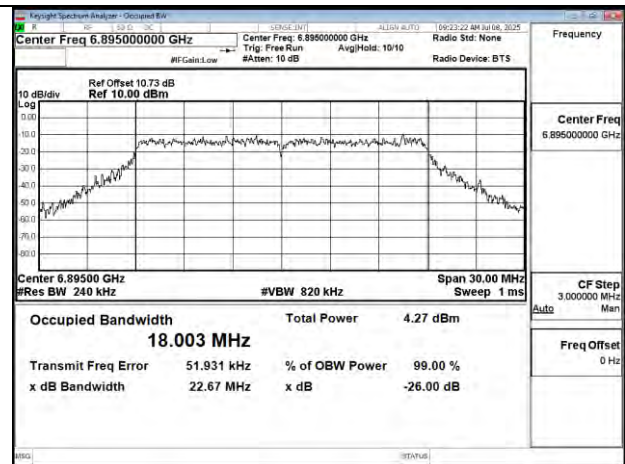
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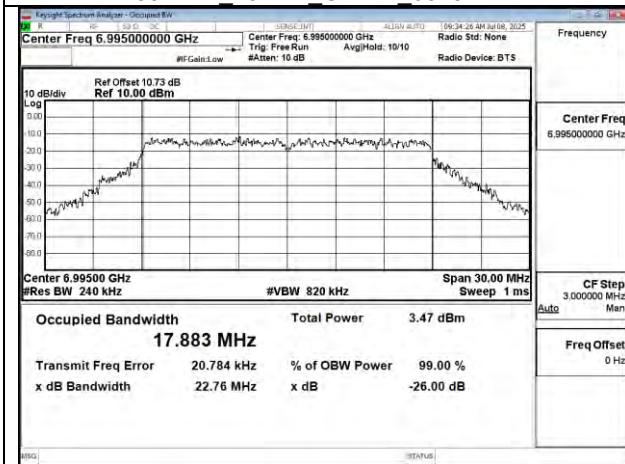
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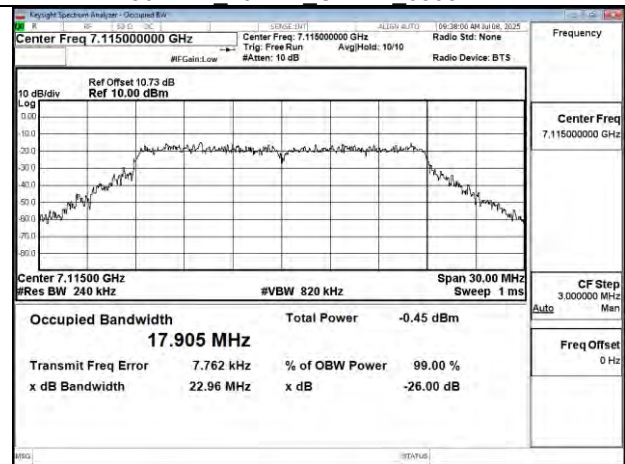
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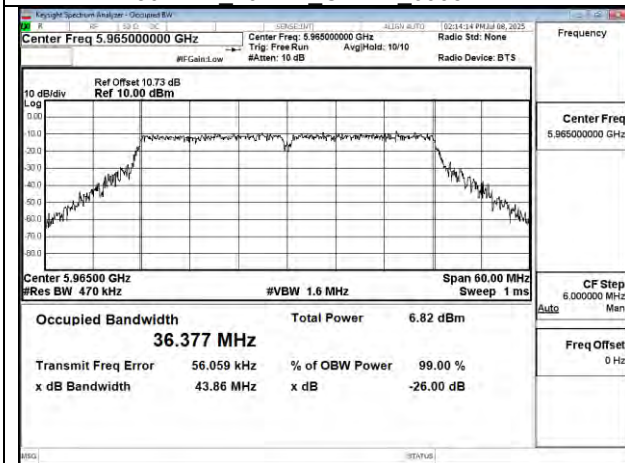
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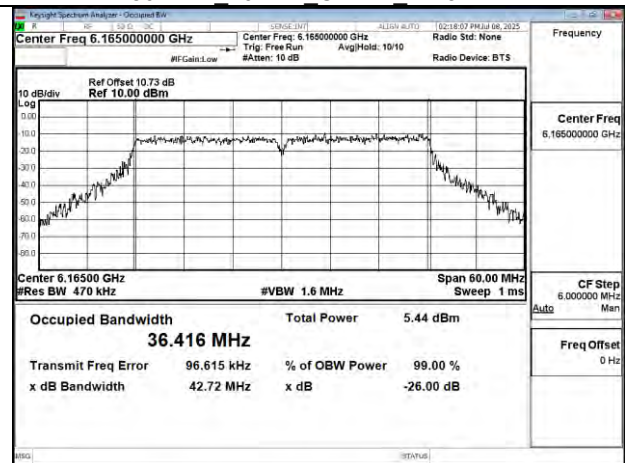
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802.11n 40MHz Chain0 5965MHz

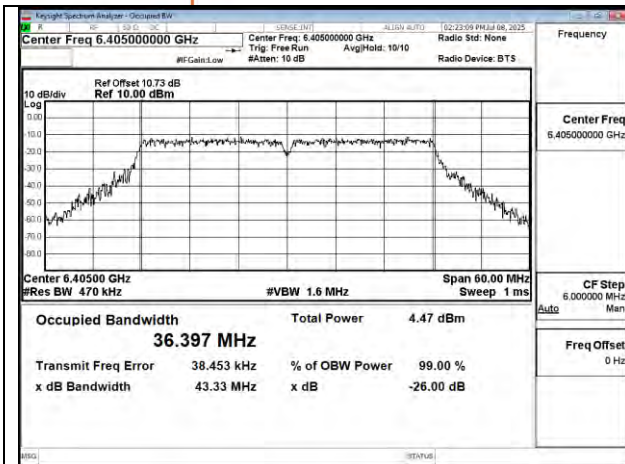


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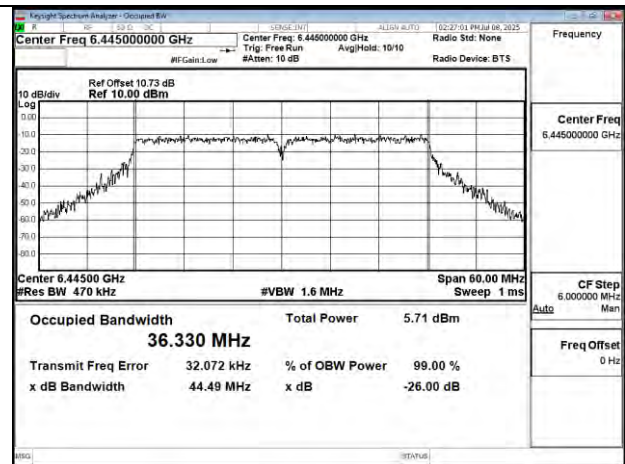
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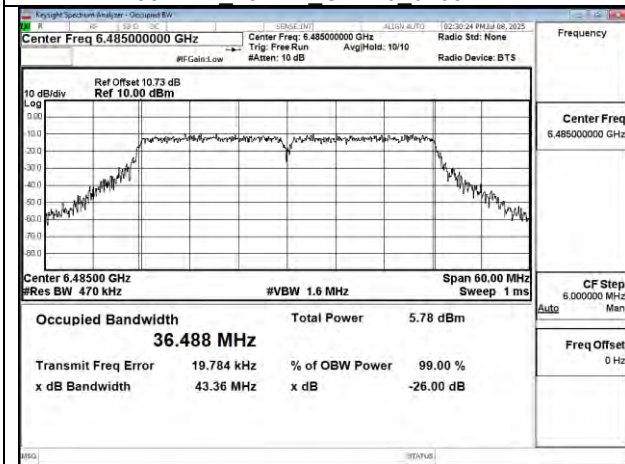
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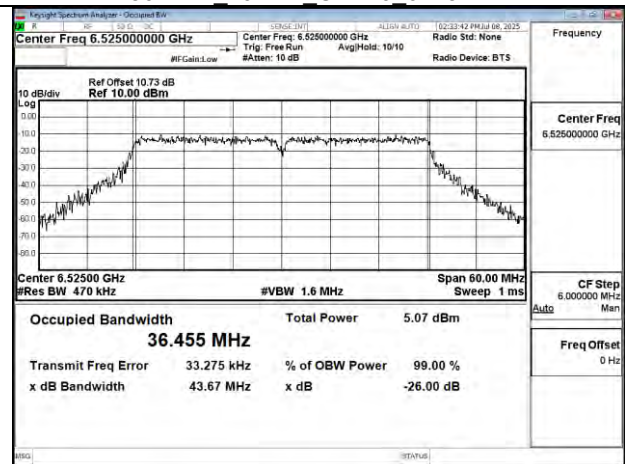
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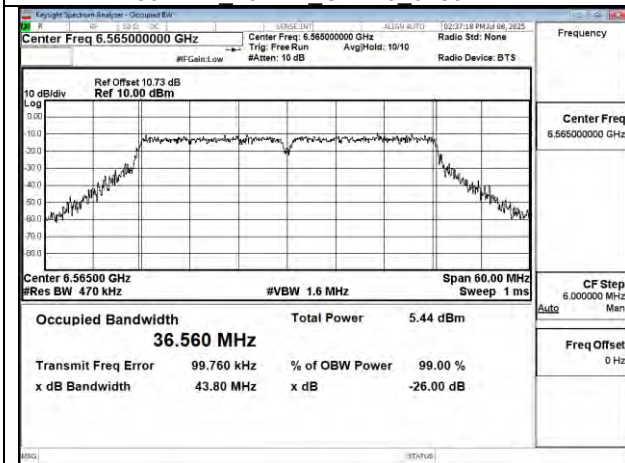
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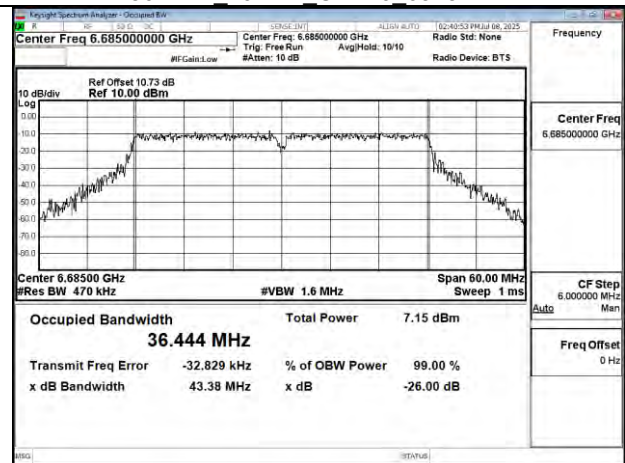
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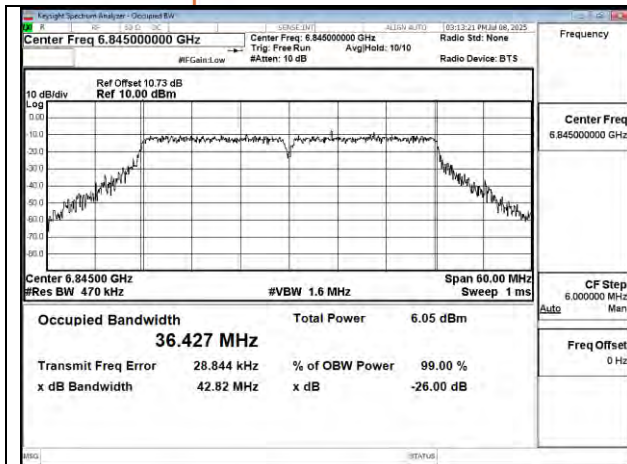


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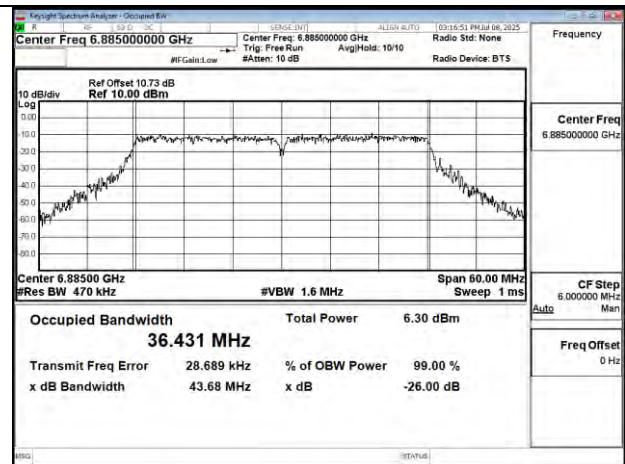
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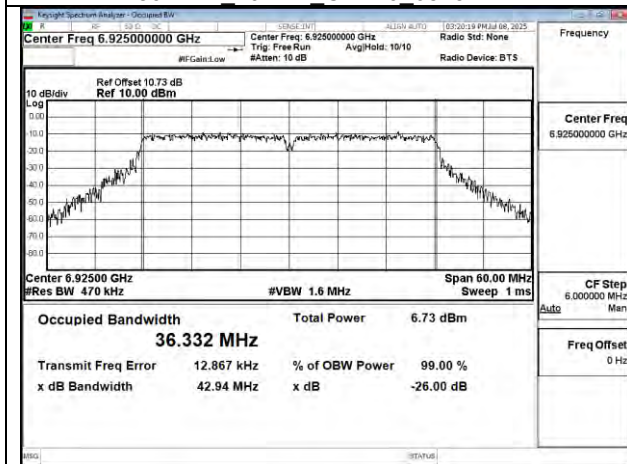
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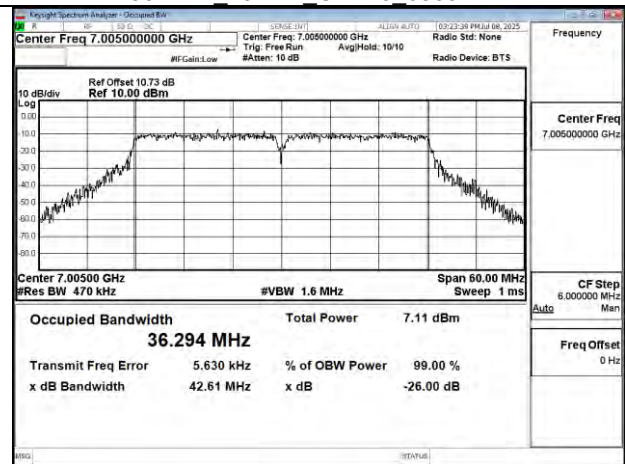
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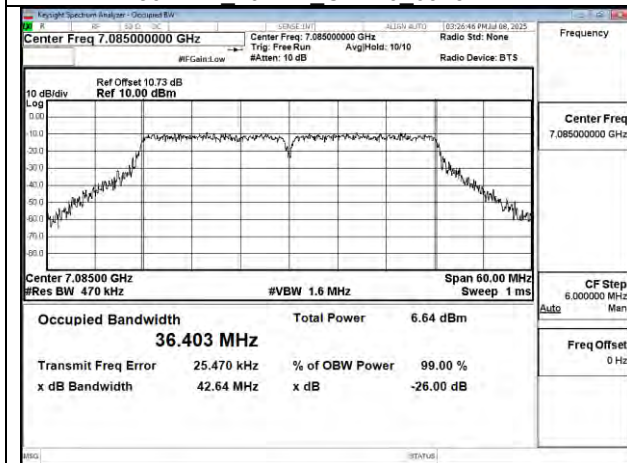
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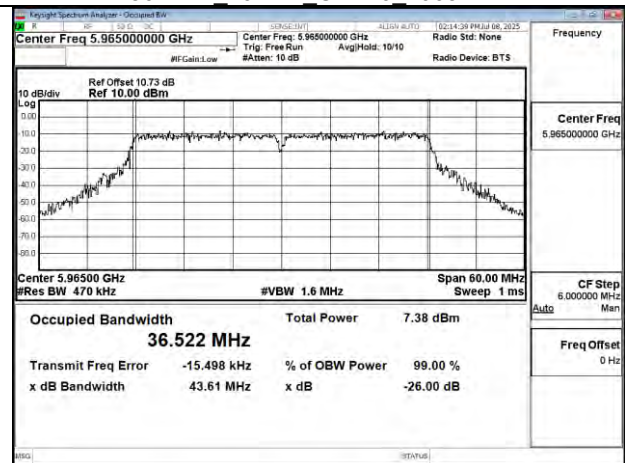
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802.11n 40MHz Chain0 7005MHz



802.11n 40MHz Chain0 7085MHz

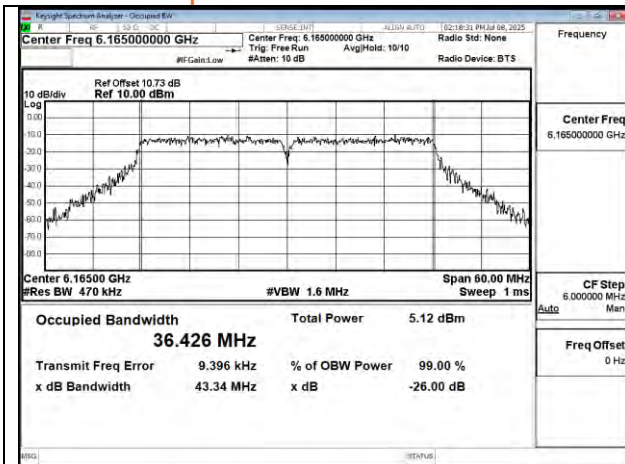


802.11n 40MHz Chain1 5965MHz

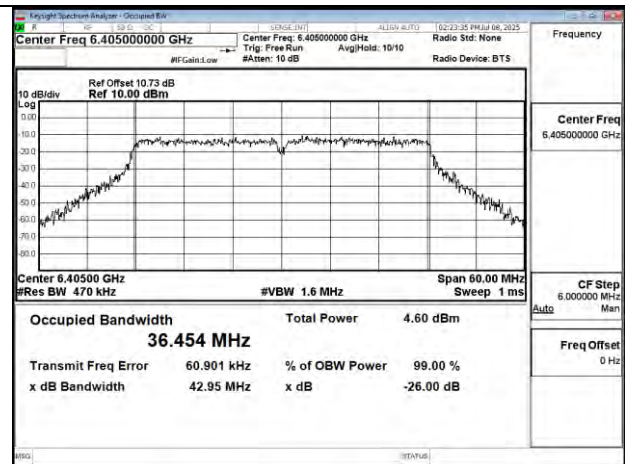
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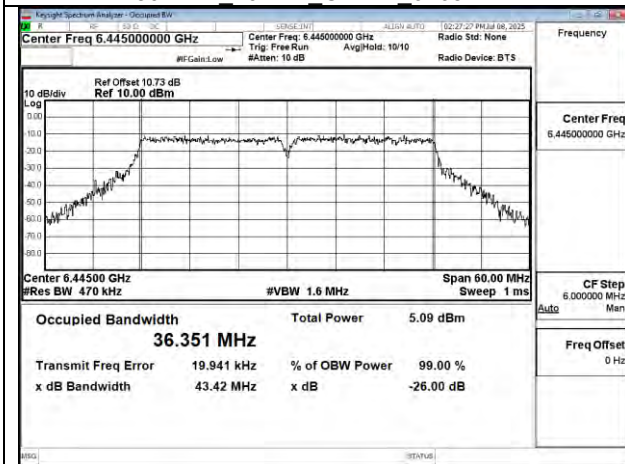
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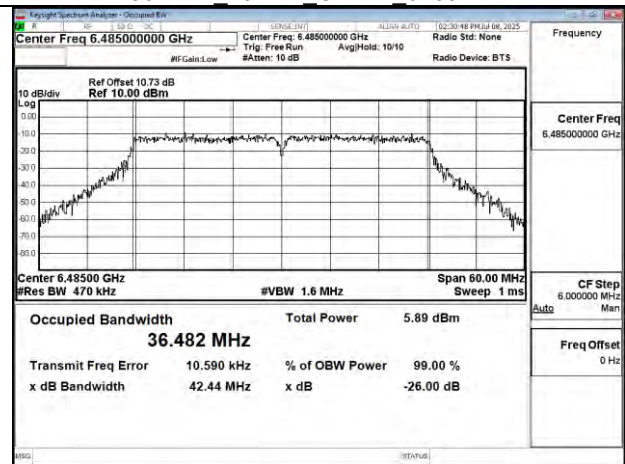
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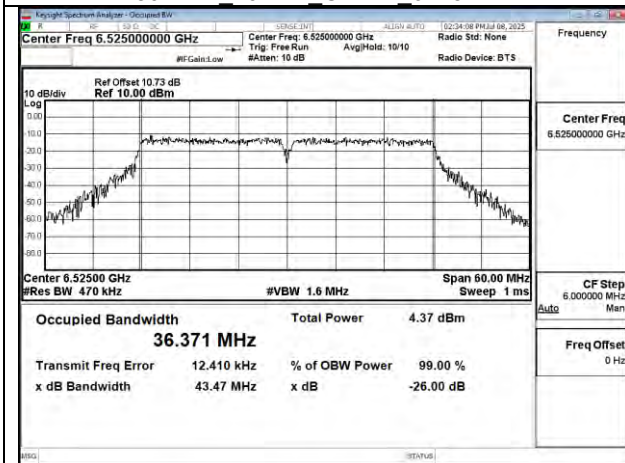
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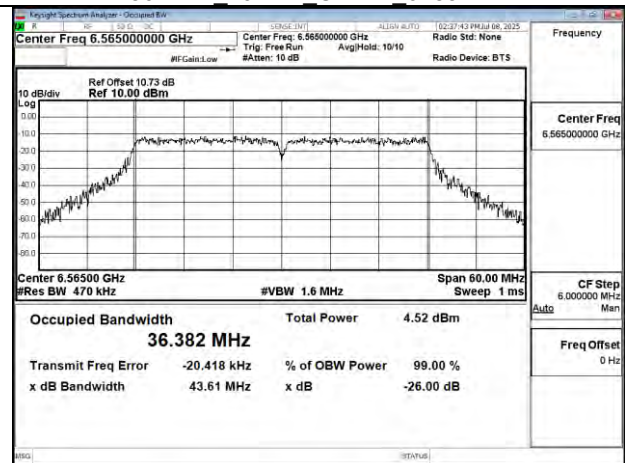
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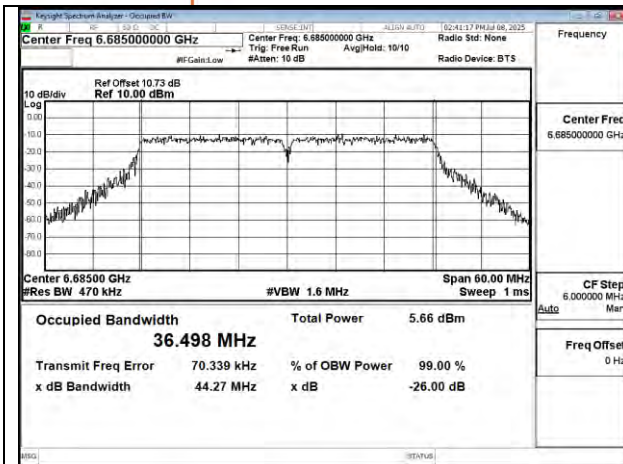


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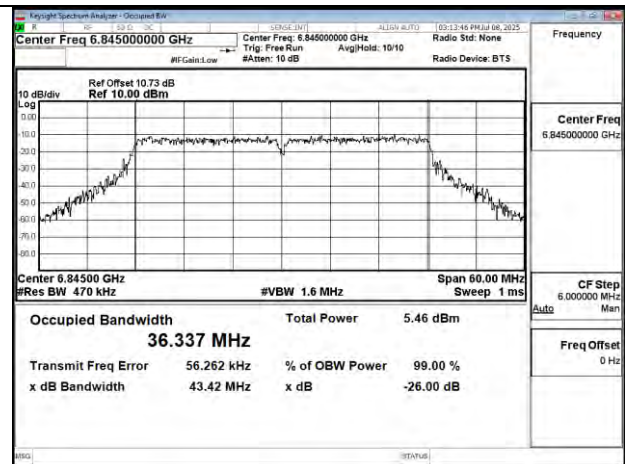
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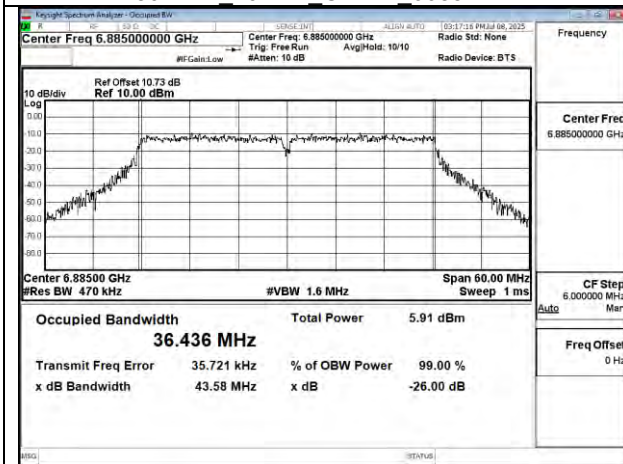
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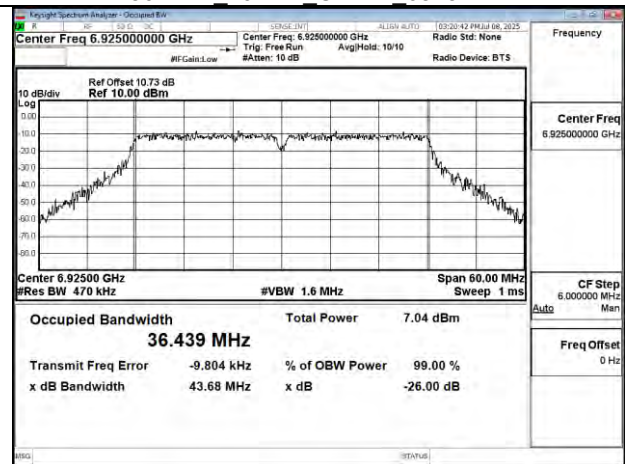
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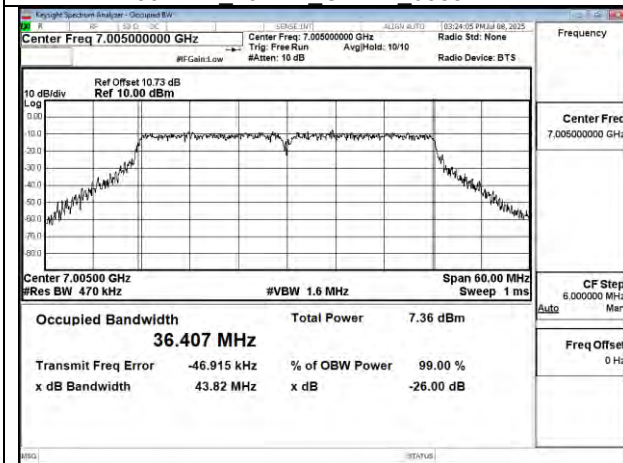
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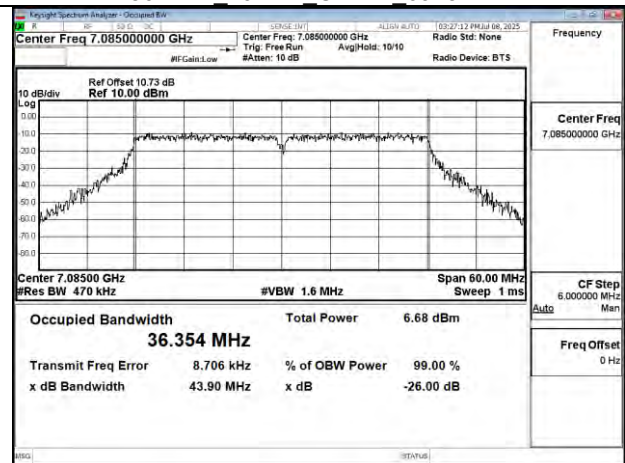
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802.11n 40MHz Chain1 6925MHz



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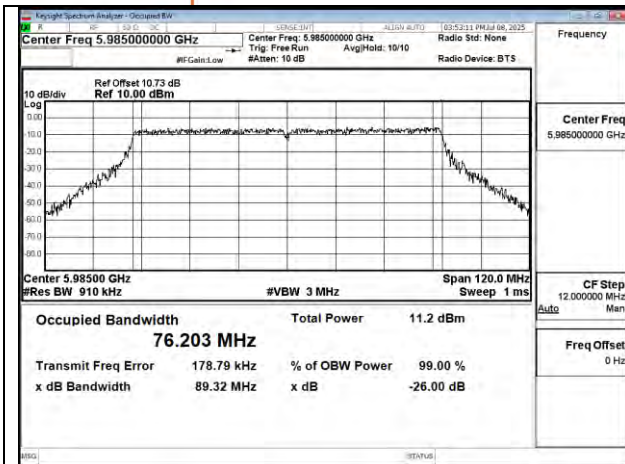


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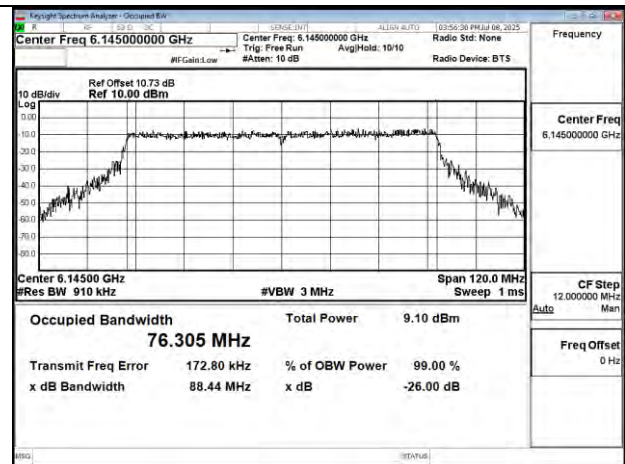
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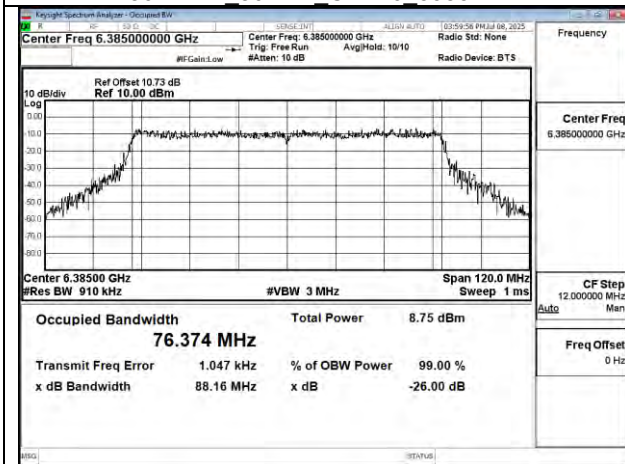
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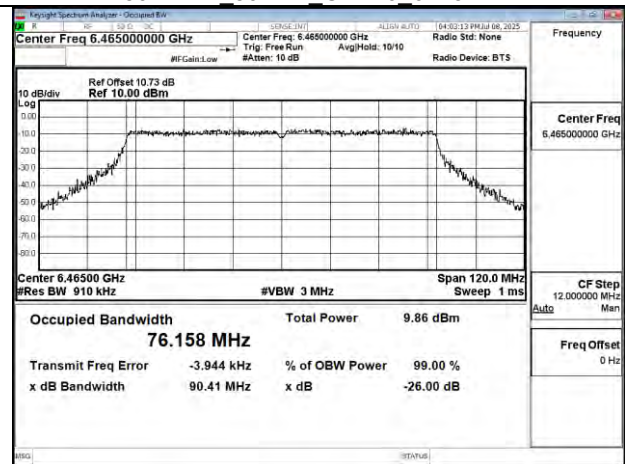
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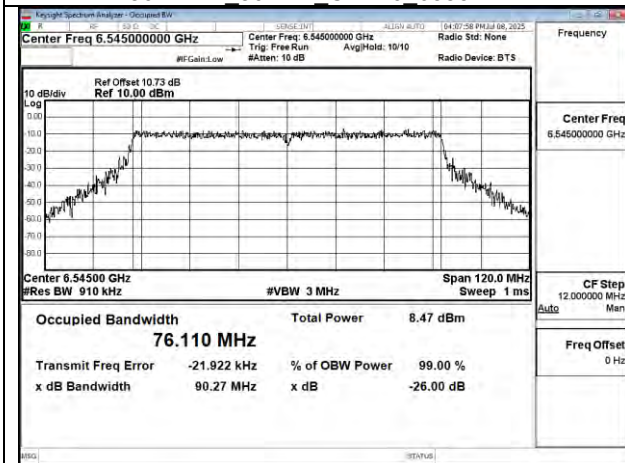
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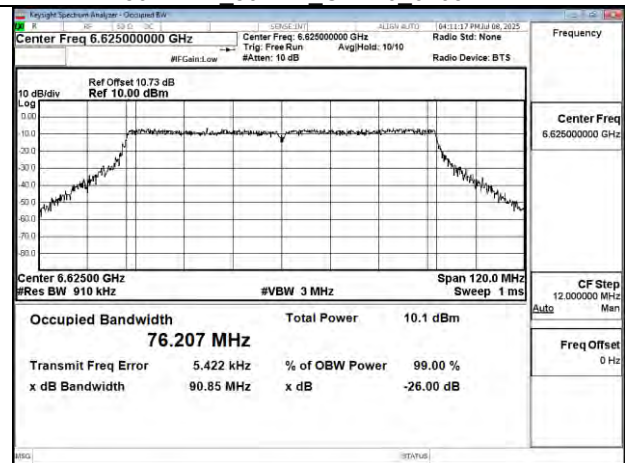
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802.11ac 80MHz Chain0 6465MHz



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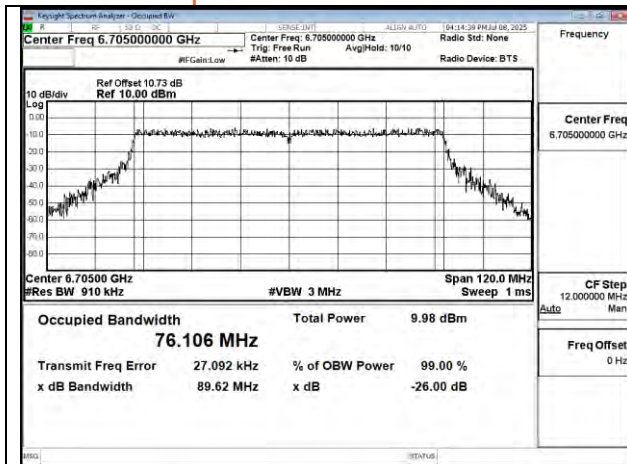


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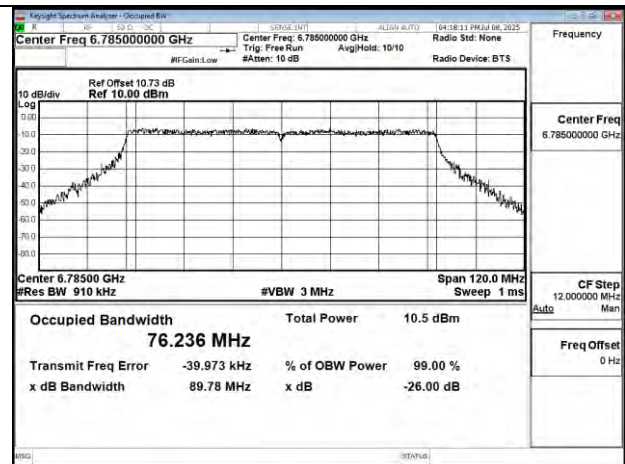
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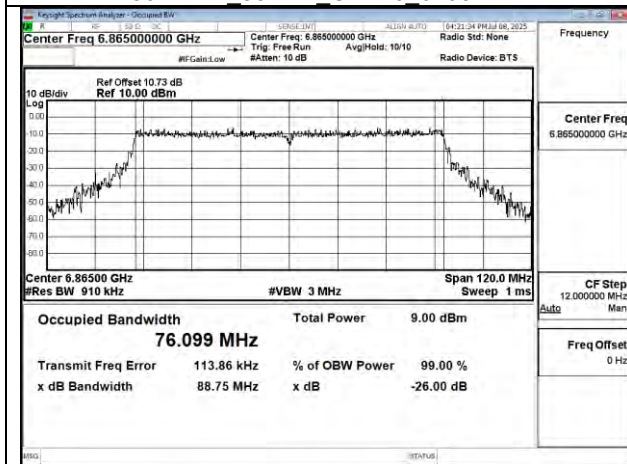
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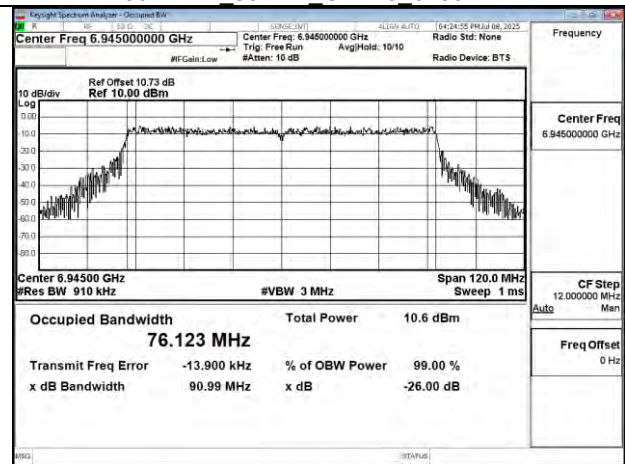
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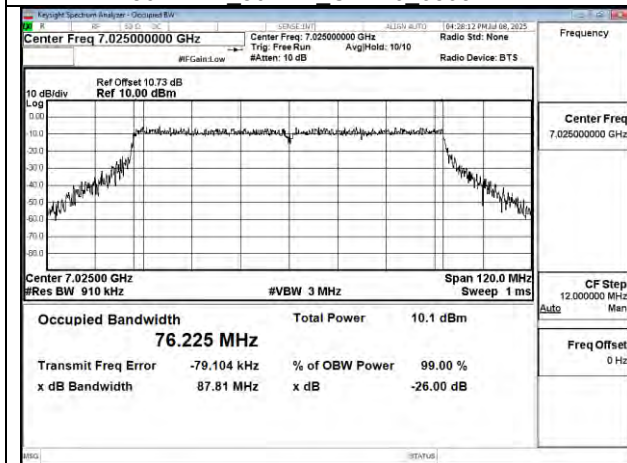
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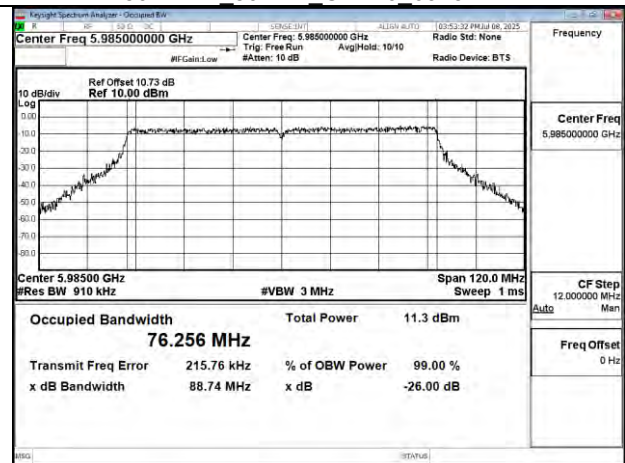
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802.11ac 80MHz Chain0 6945MHz



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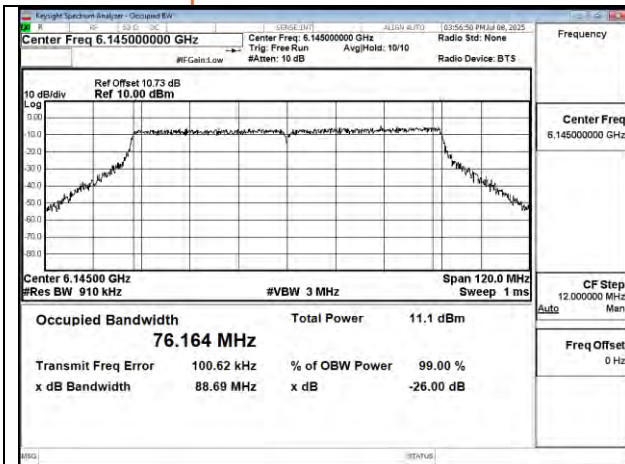


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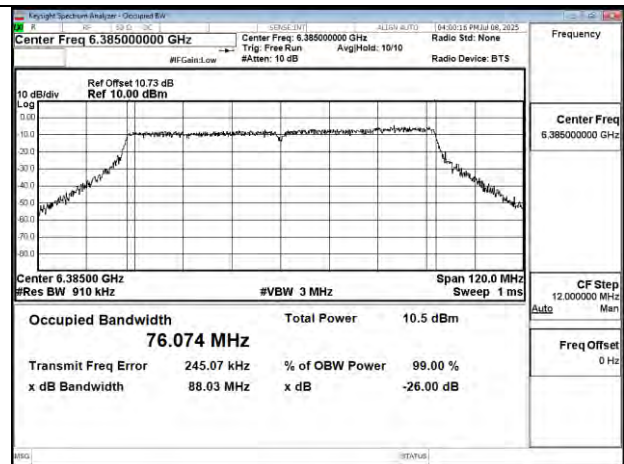
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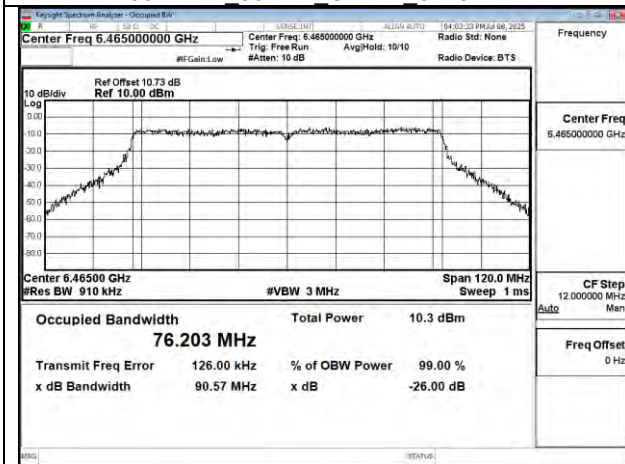
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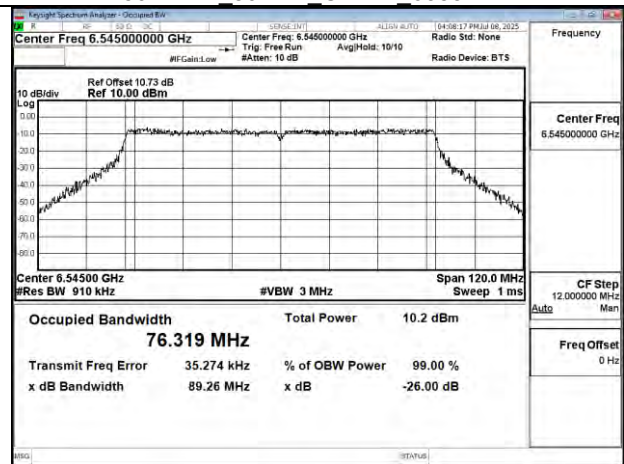
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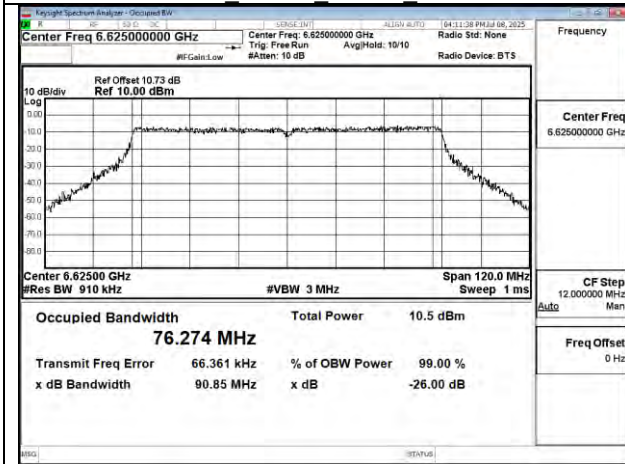
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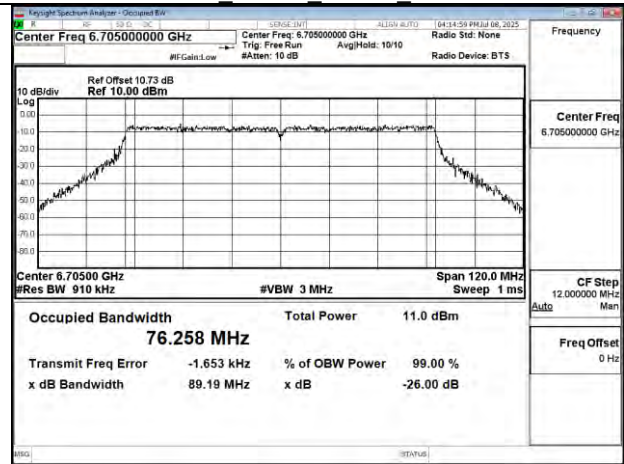
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802.11ac 80MHz Chain1 6545MHz



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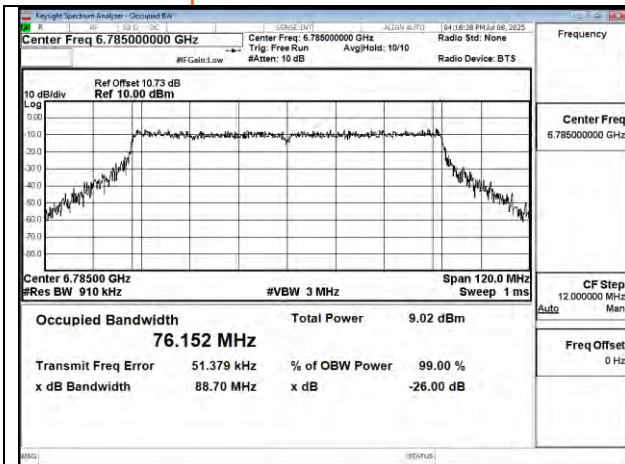


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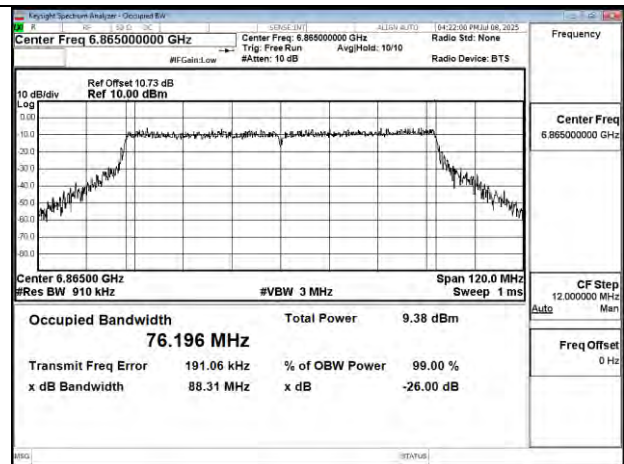
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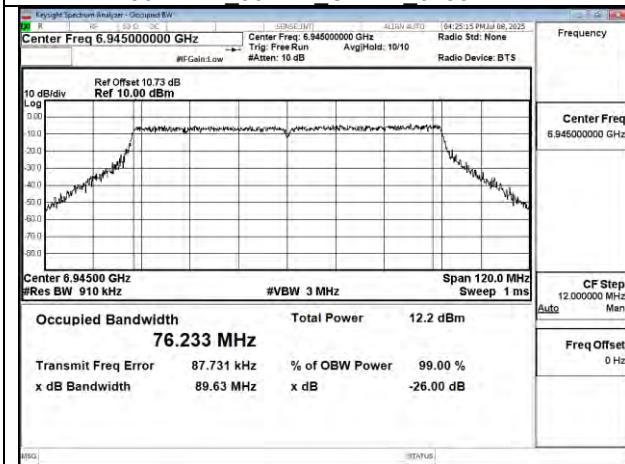
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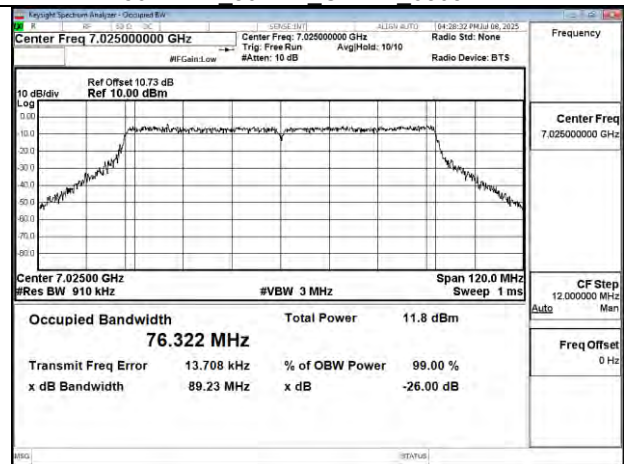
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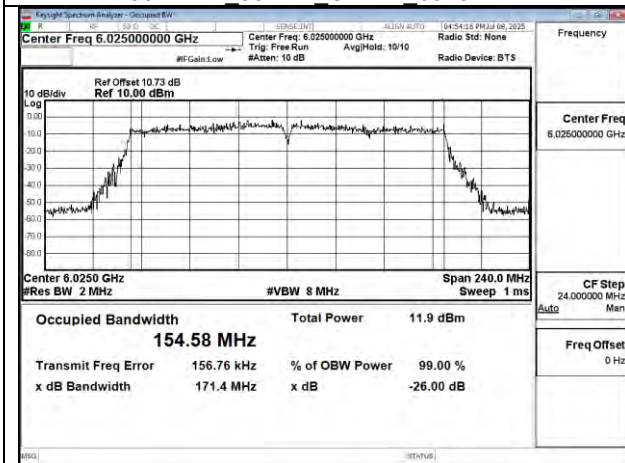
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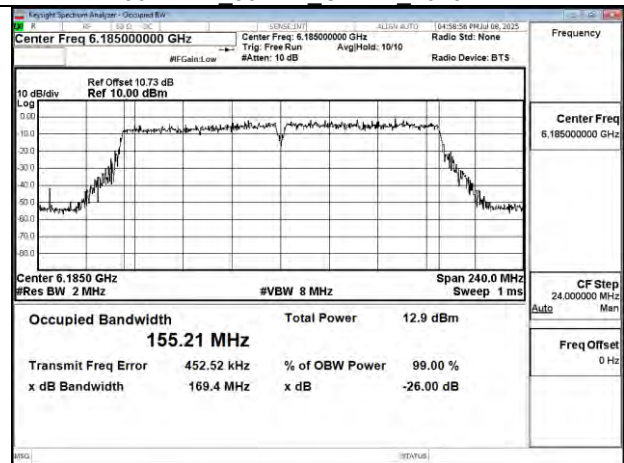
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802.11ac 80MHz Chain1 7025MHz



802.11ac 160MHz Chain0 6025MHz

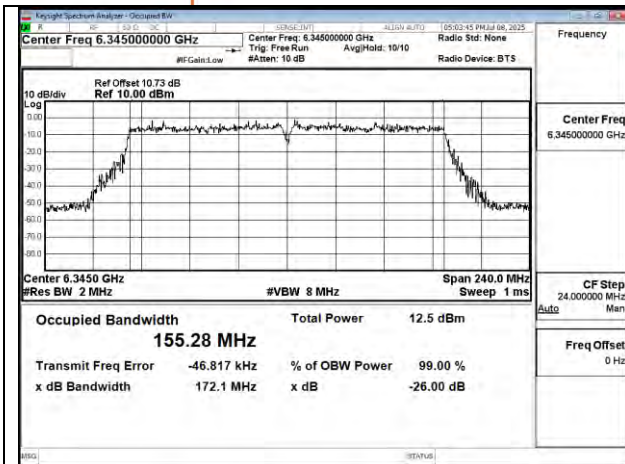


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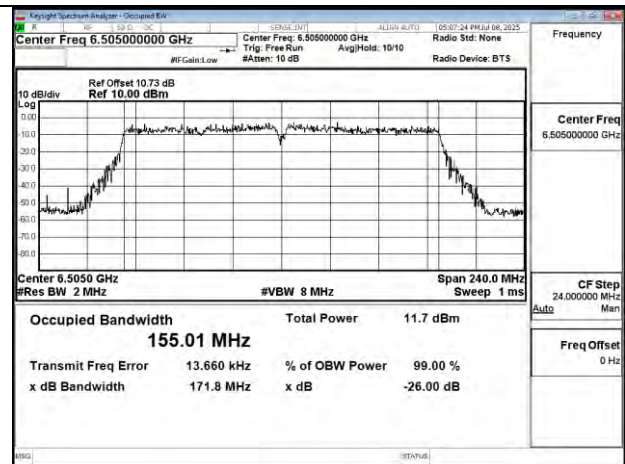
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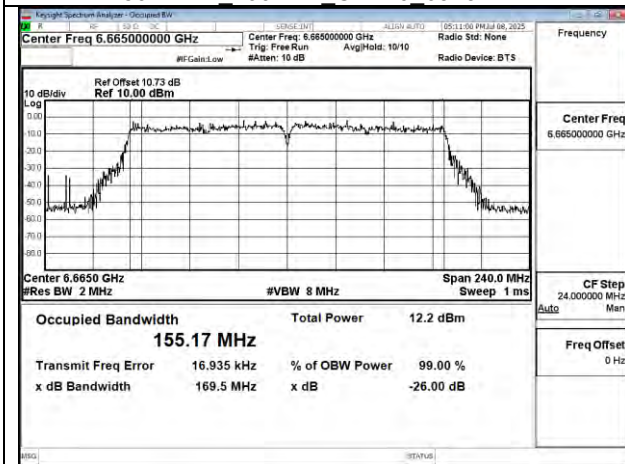
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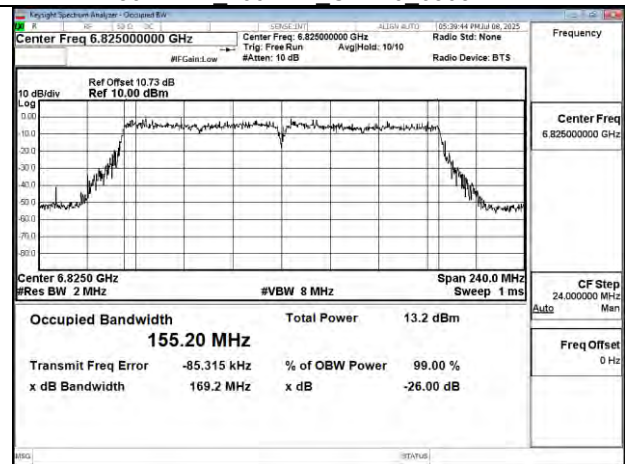
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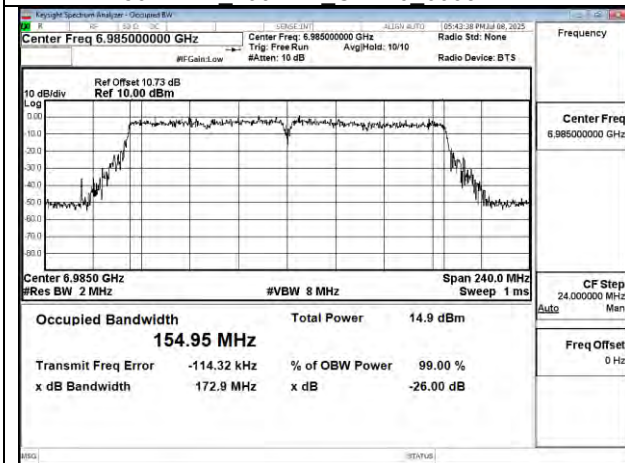
802.11ac 160MHz Chain0 6505MHz



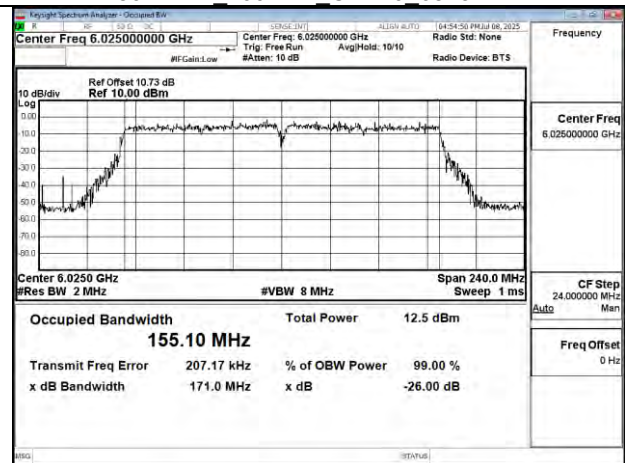
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802.11ac 160MHz Chain0 6825MHz



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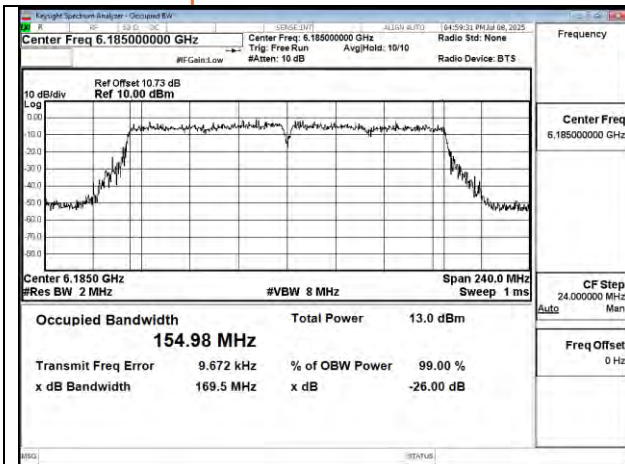


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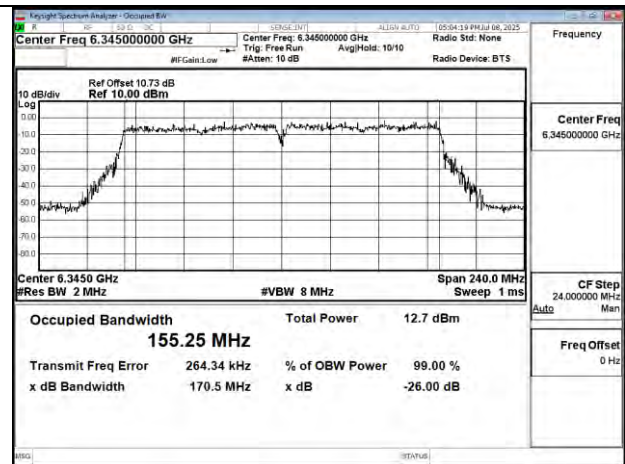
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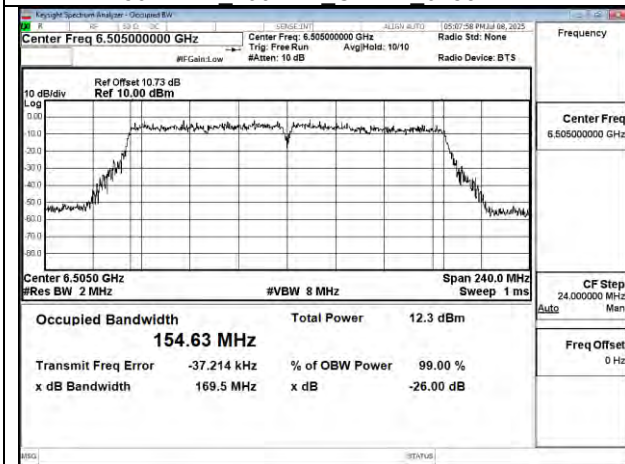
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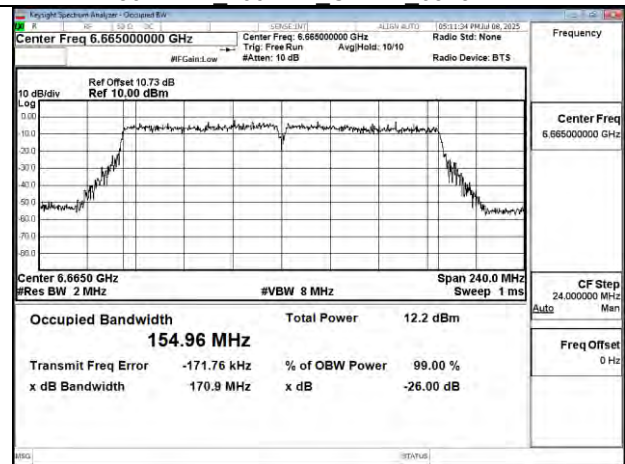
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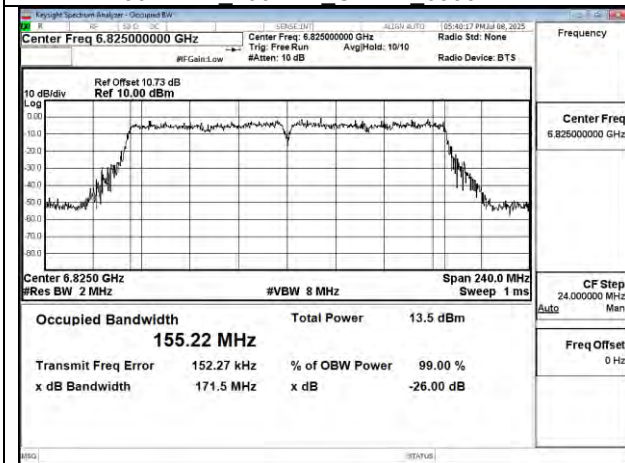
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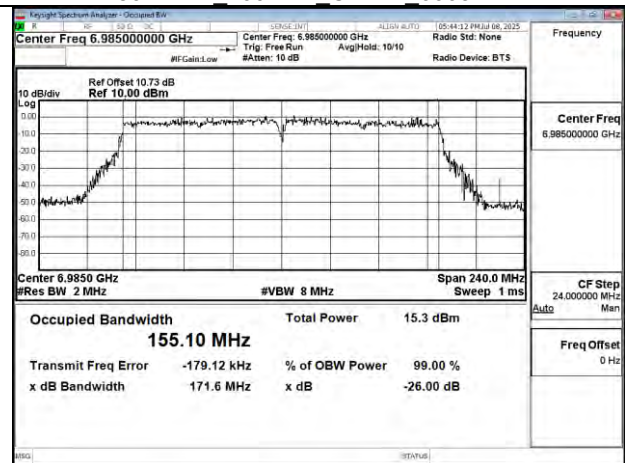
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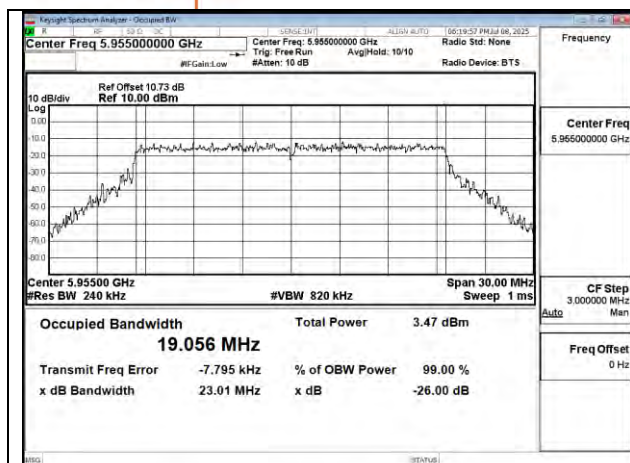


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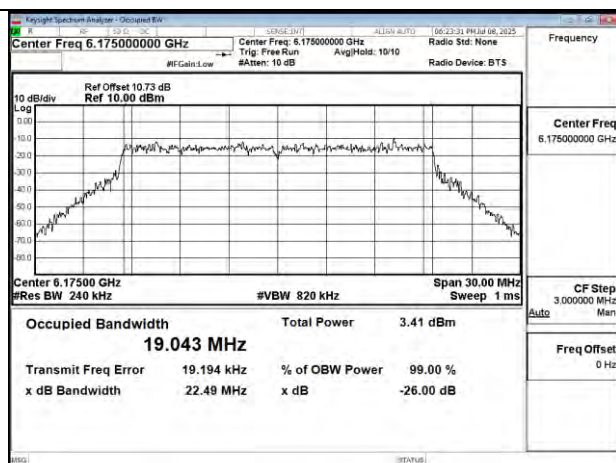
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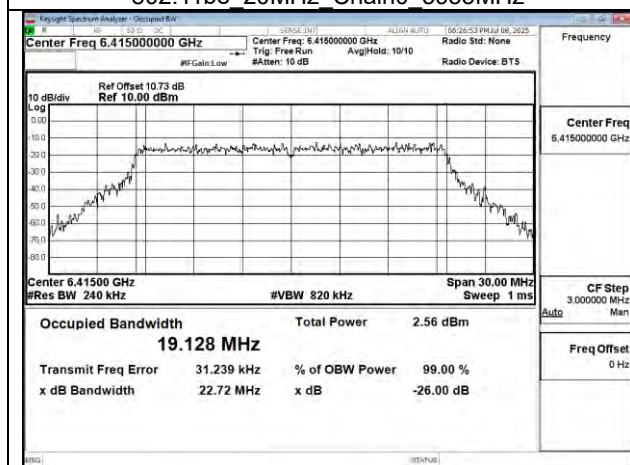
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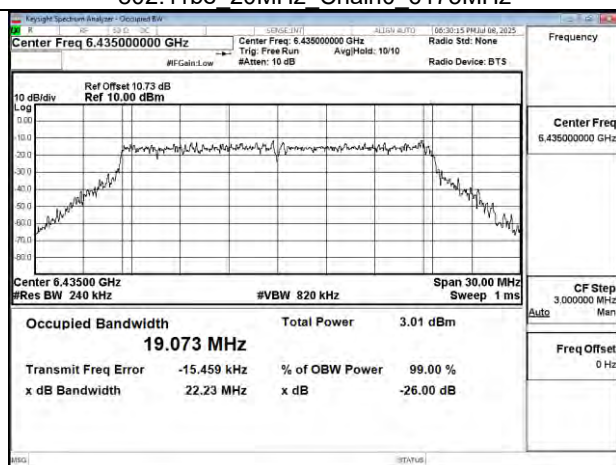
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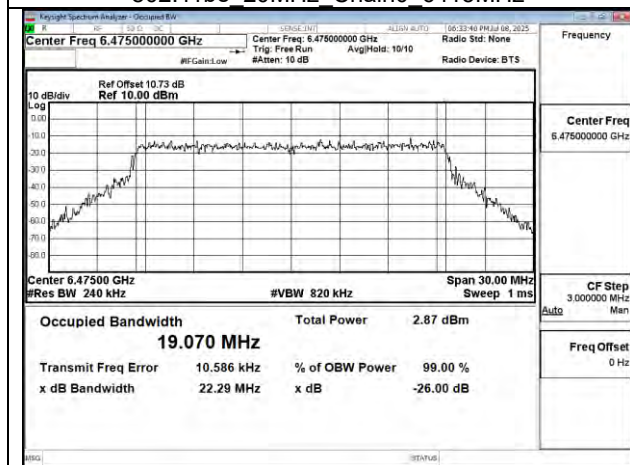
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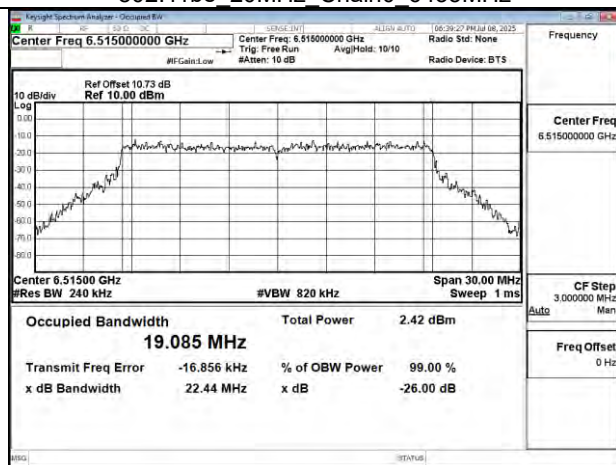
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802.11be 20MHz Chain0 6435MHz



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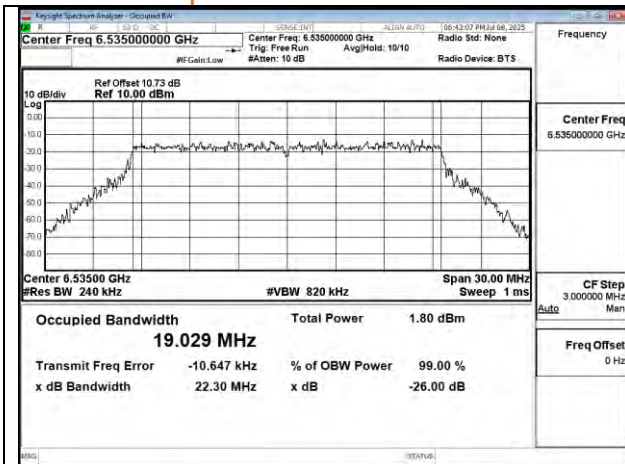


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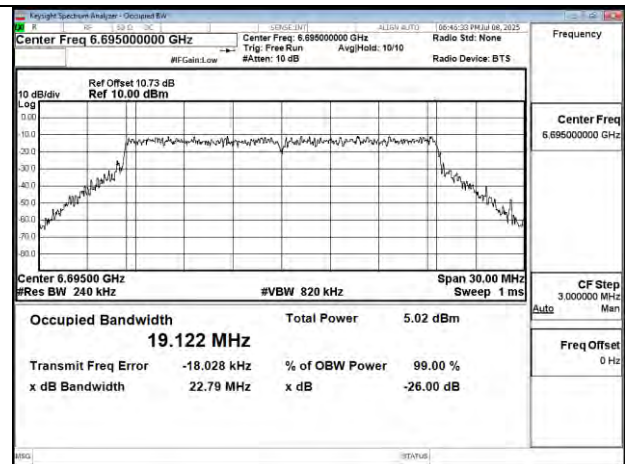
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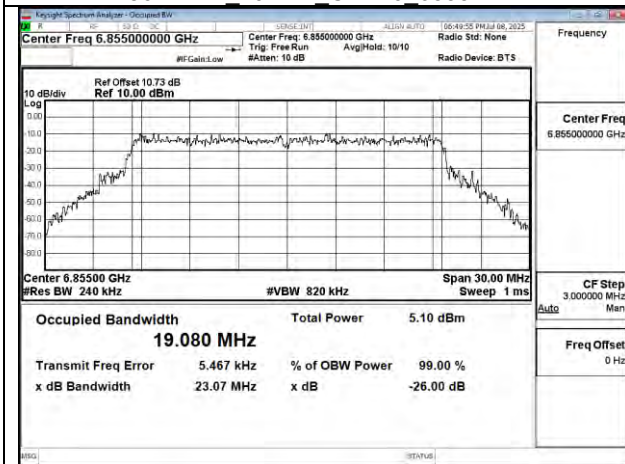
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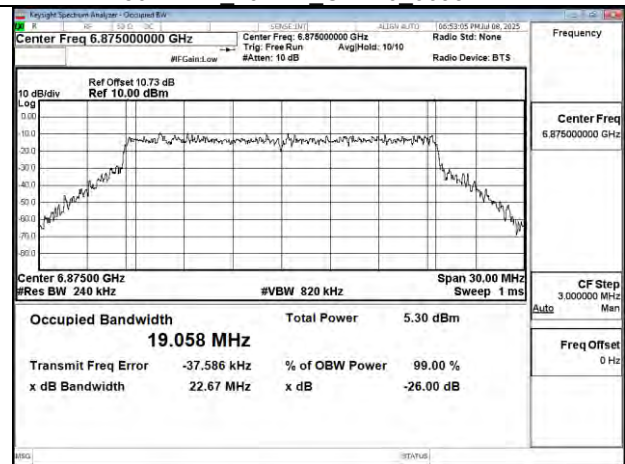
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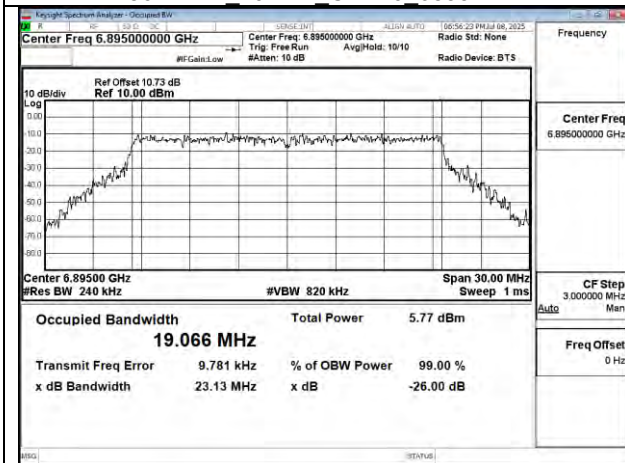
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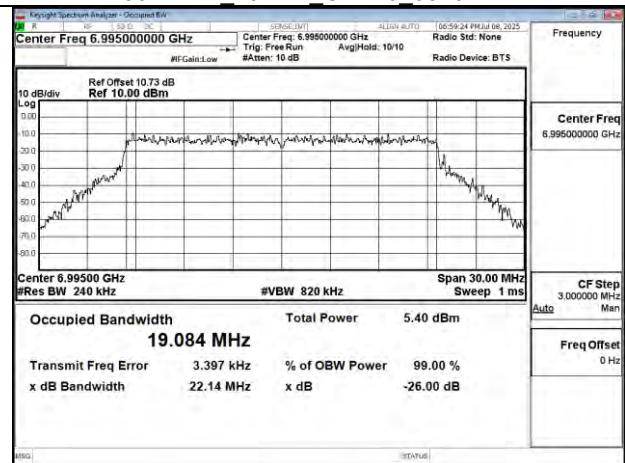
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802.11be 20MHz Chain0 6875MHz



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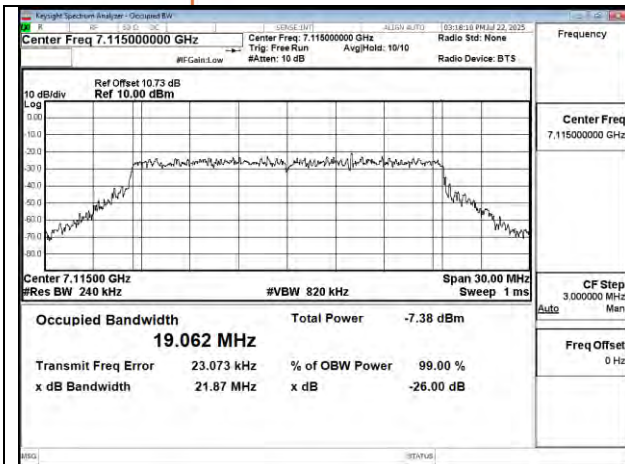


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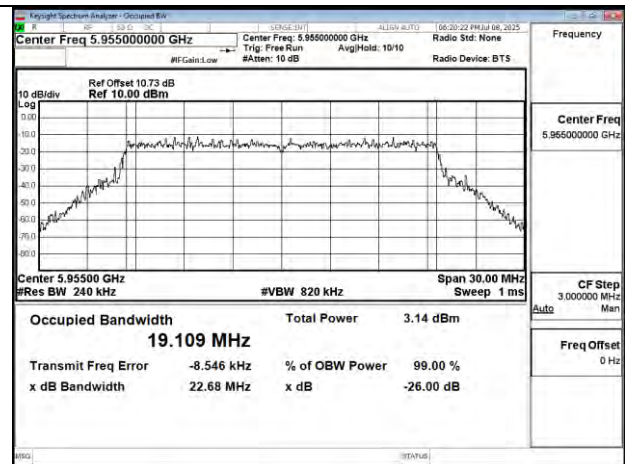
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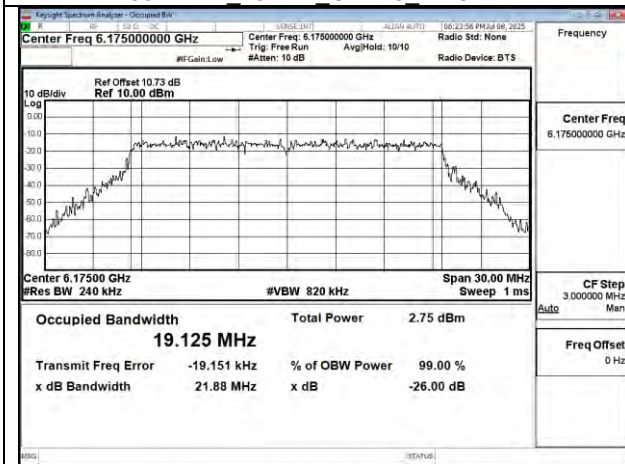
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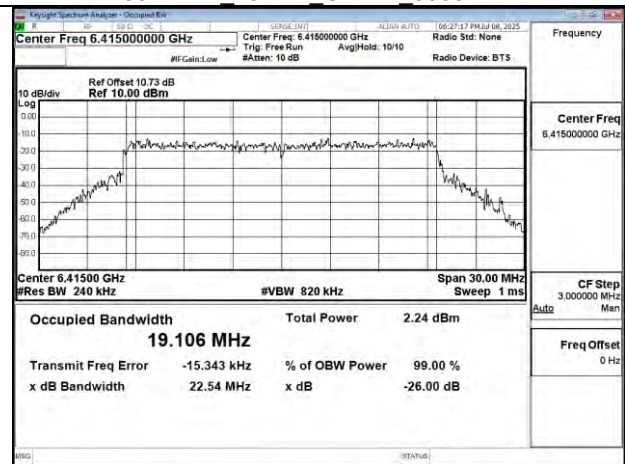
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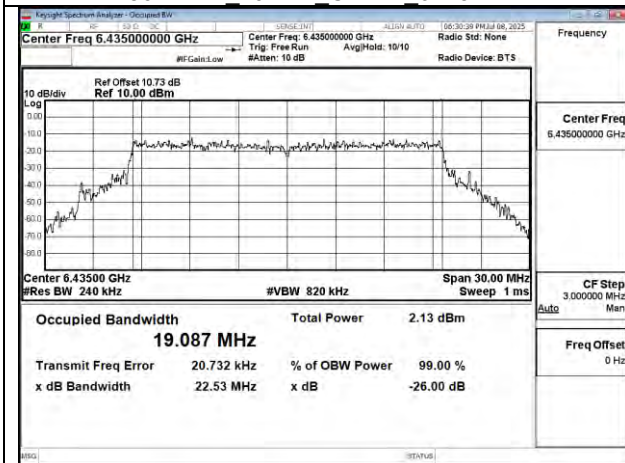
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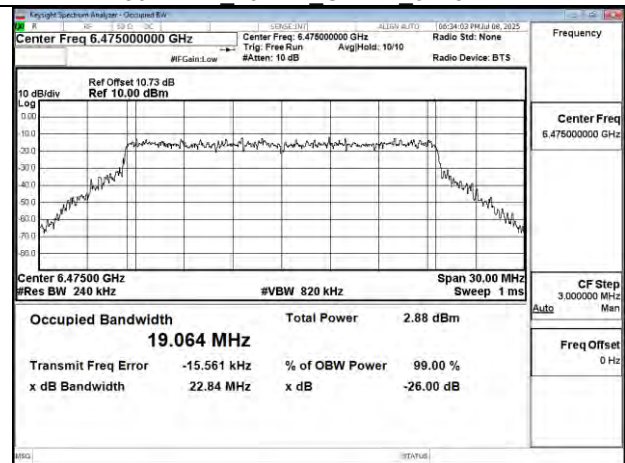
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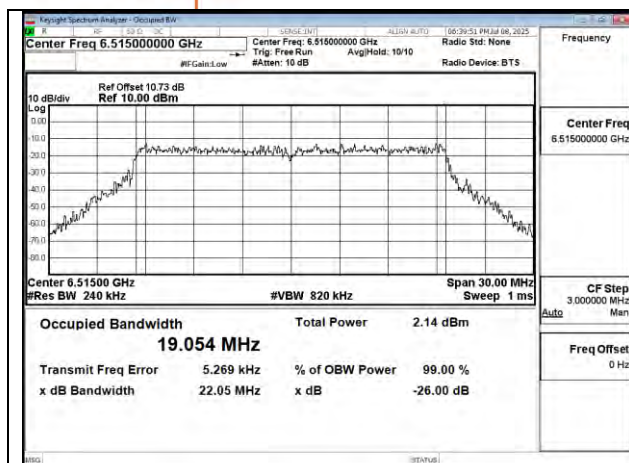


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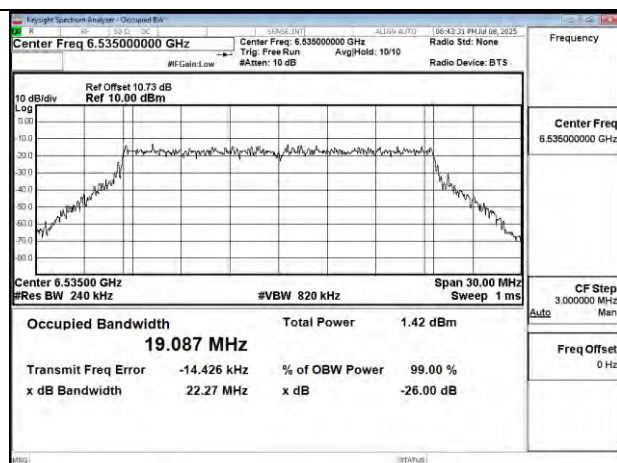
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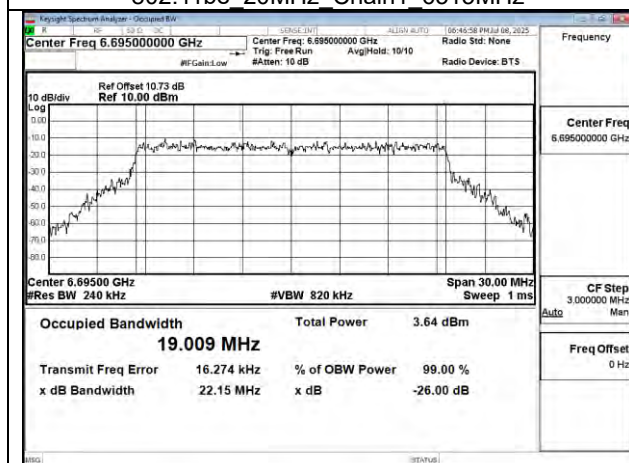
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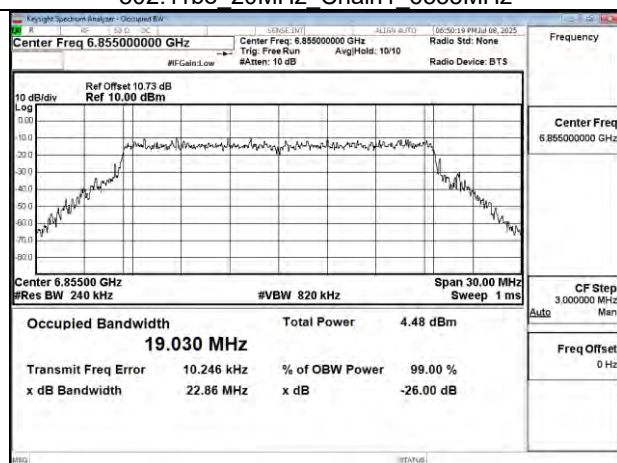
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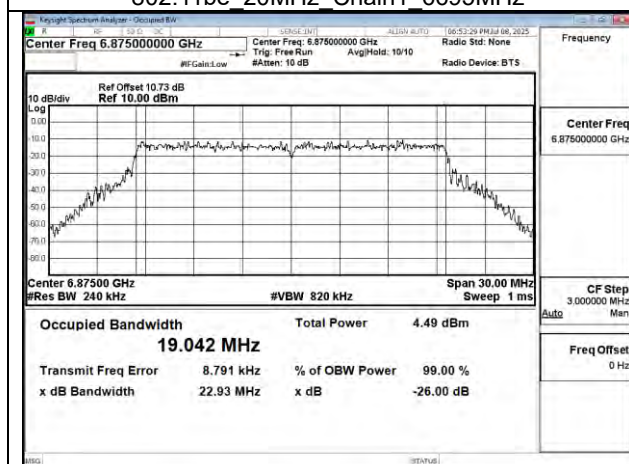
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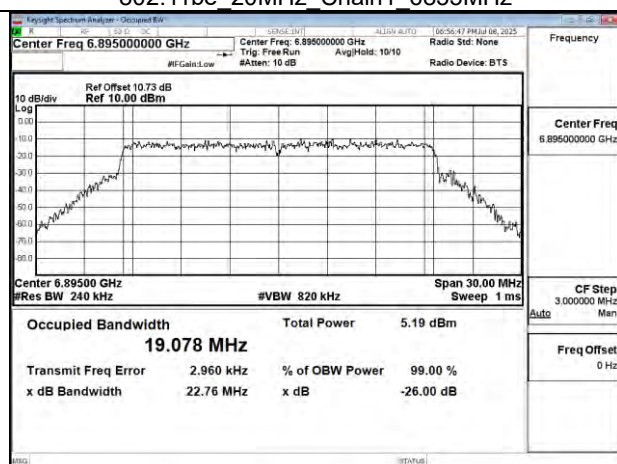
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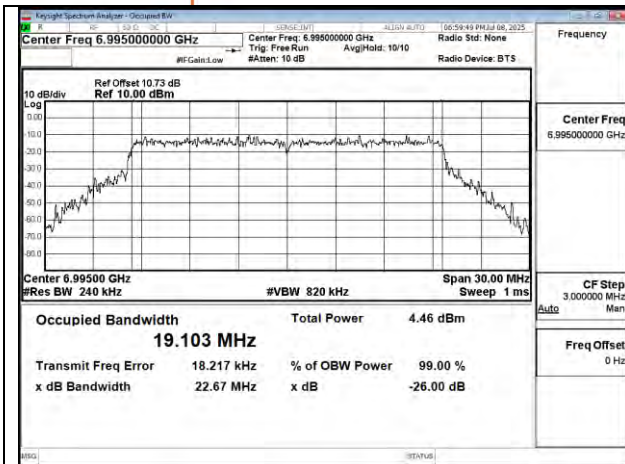


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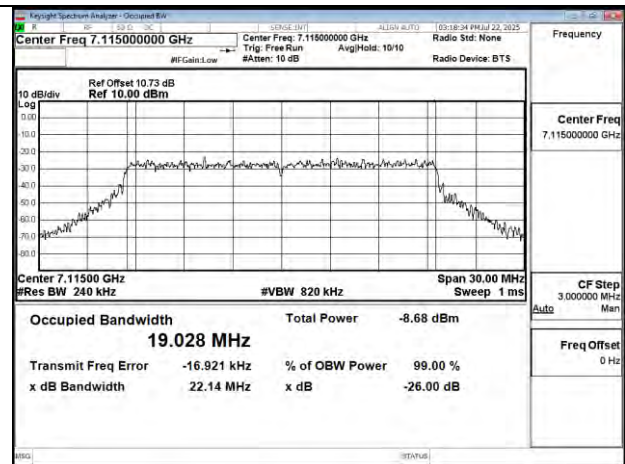
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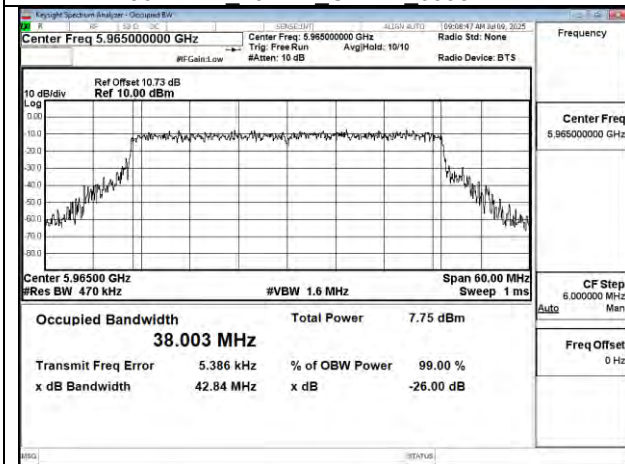
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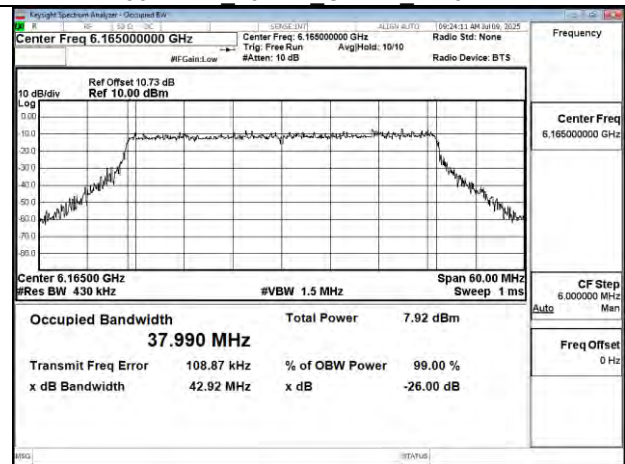
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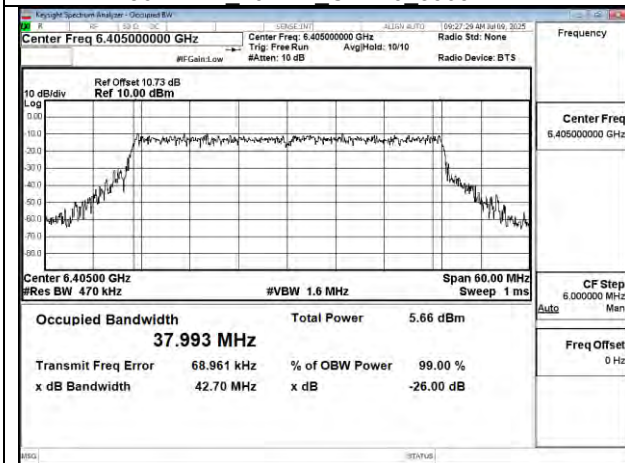
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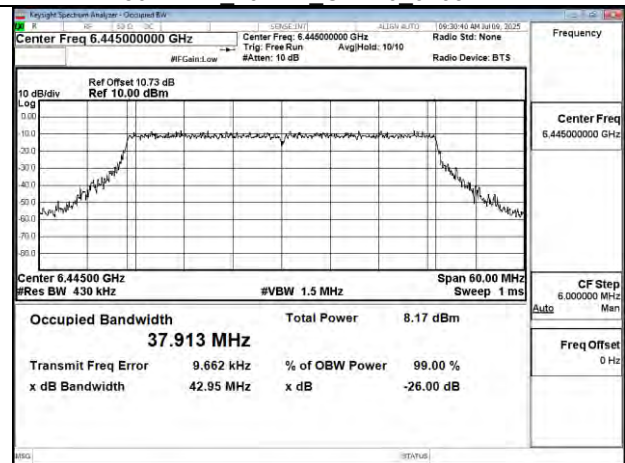
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802.11be 40MHz Chain0 6165MHz



802.11be 40MHz Chain0 6405MHz

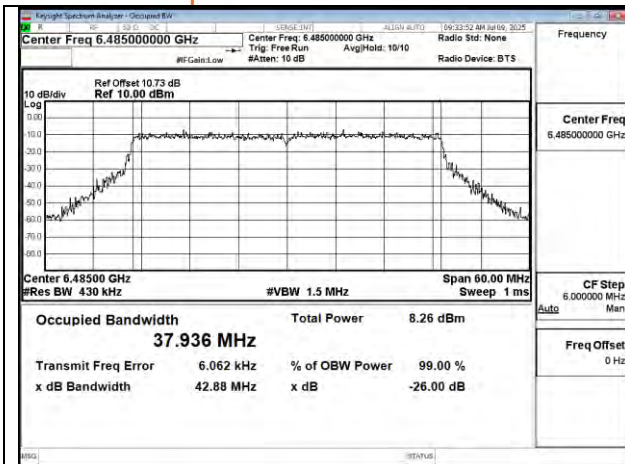


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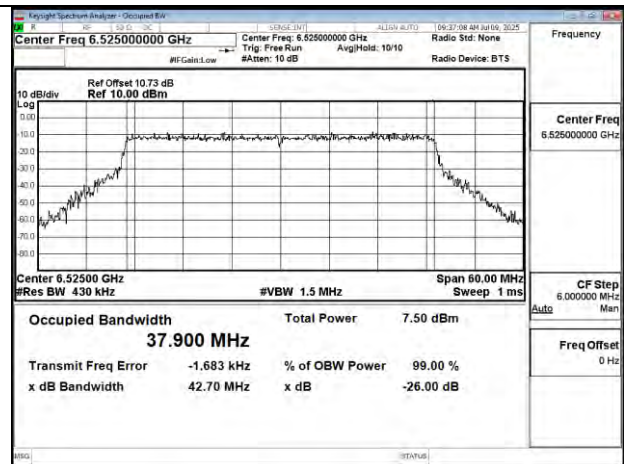
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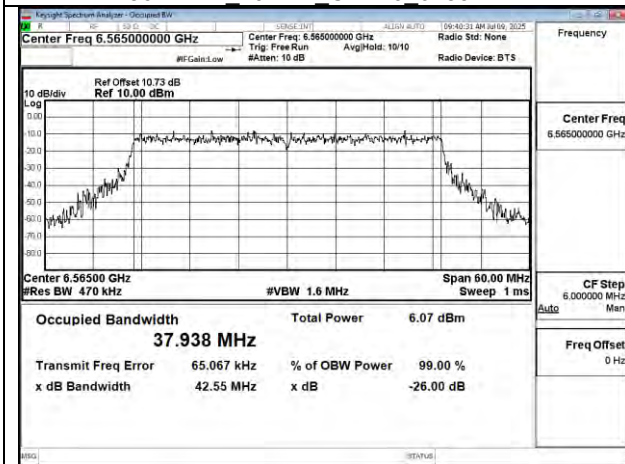
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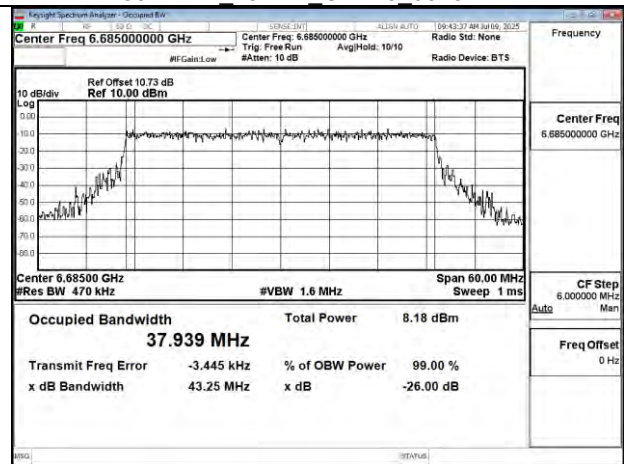
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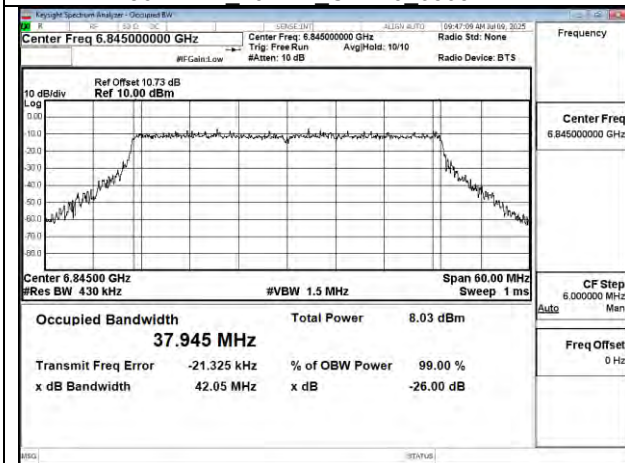
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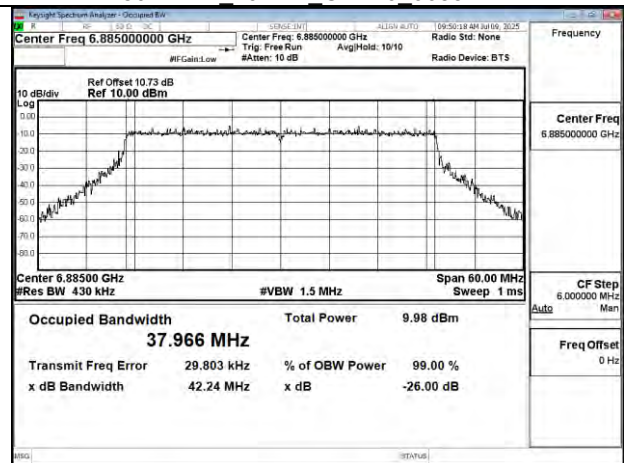
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802.11be 40MHz Chain0 6845MHz

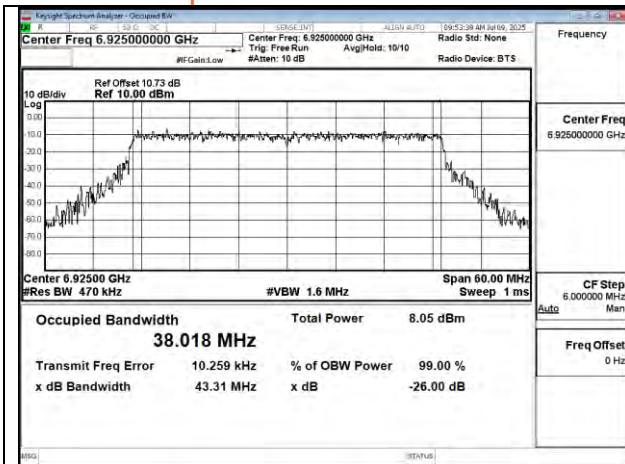


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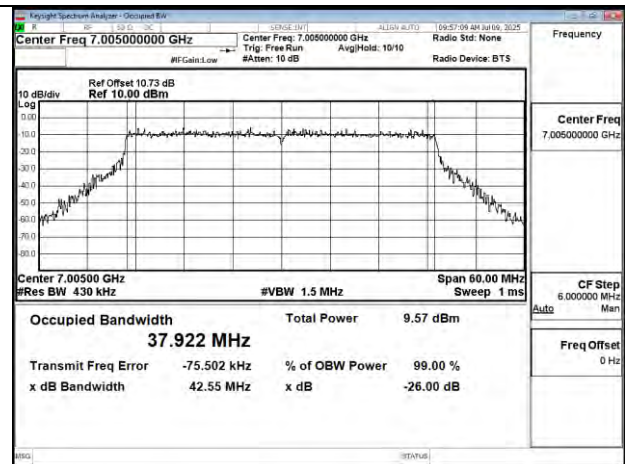
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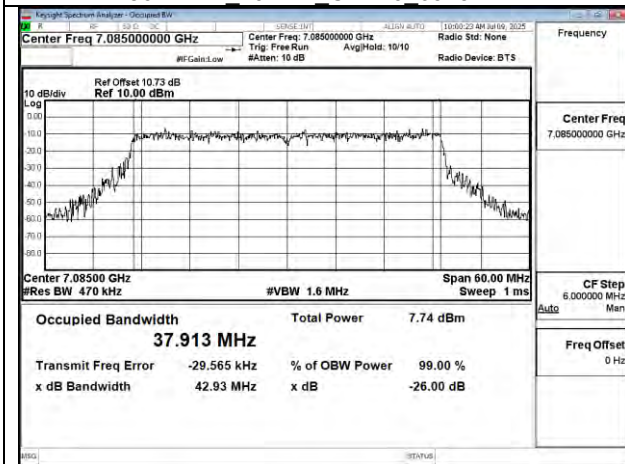
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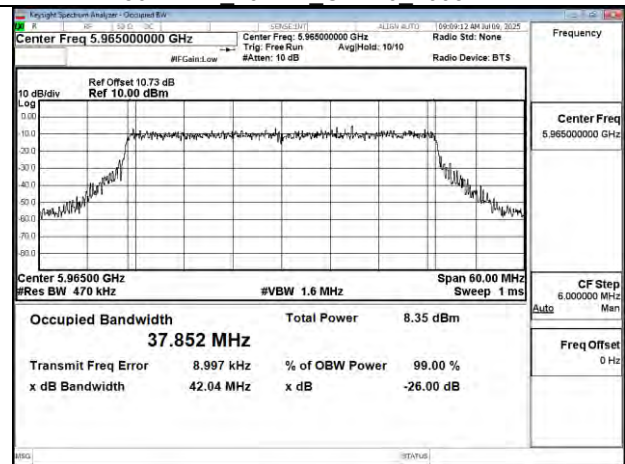
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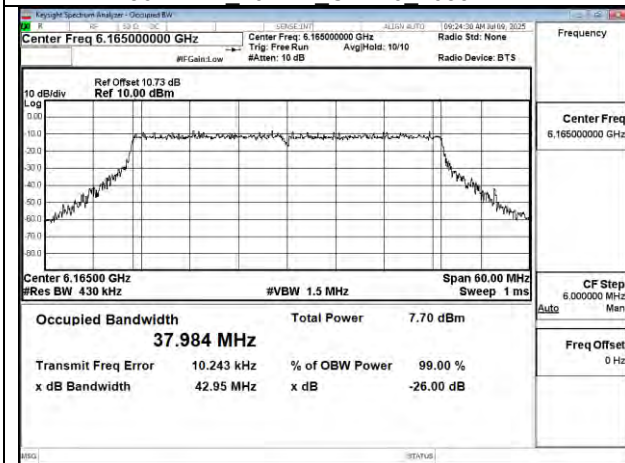
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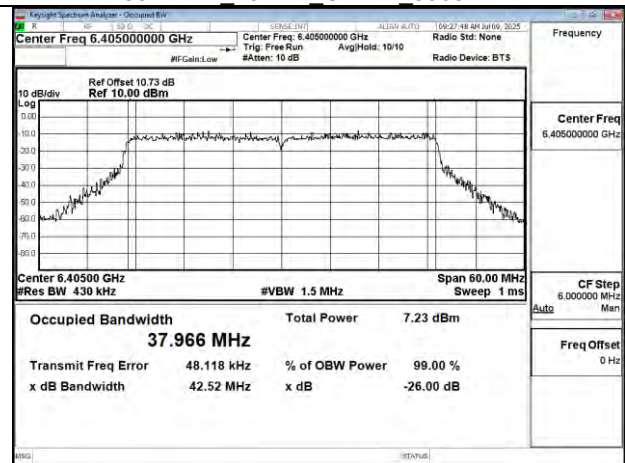
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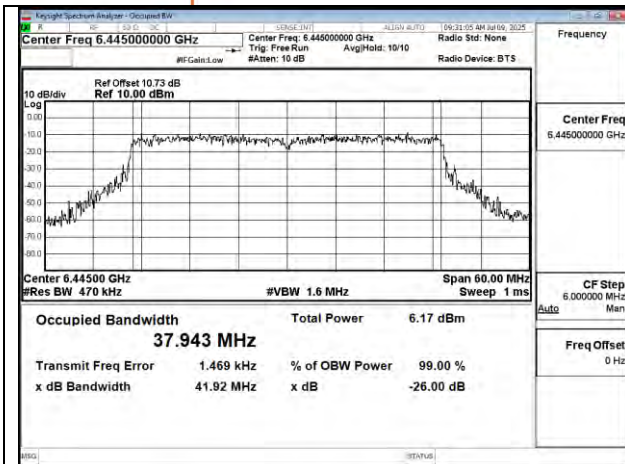


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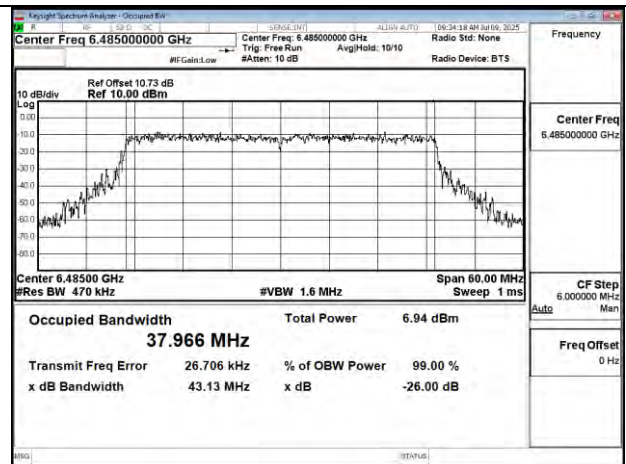
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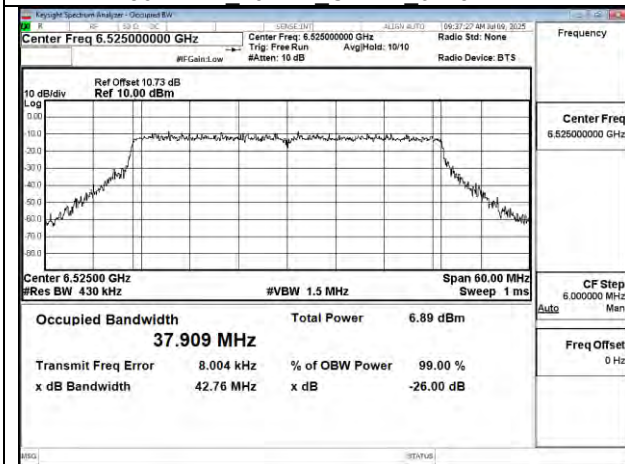
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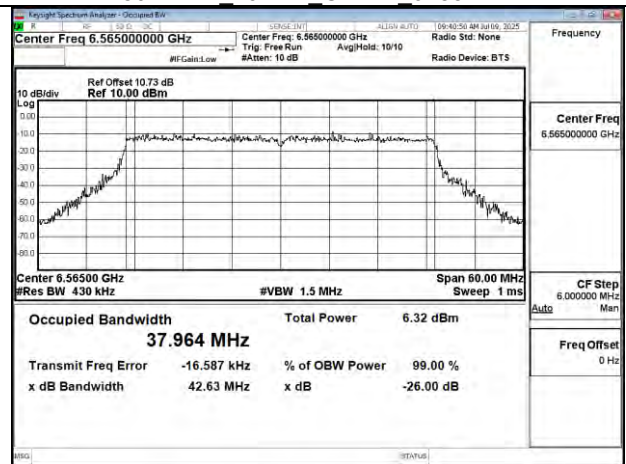
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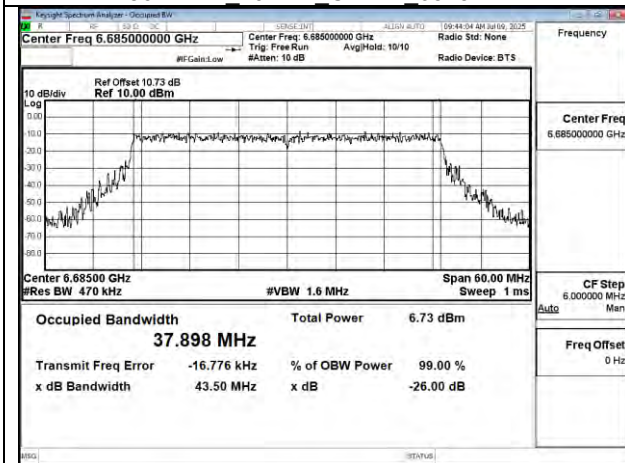
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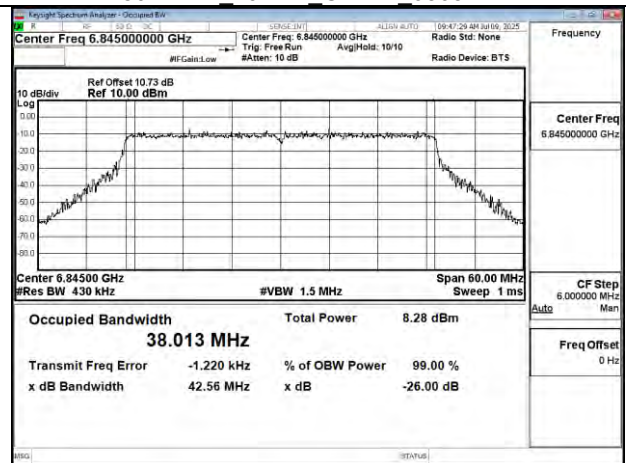
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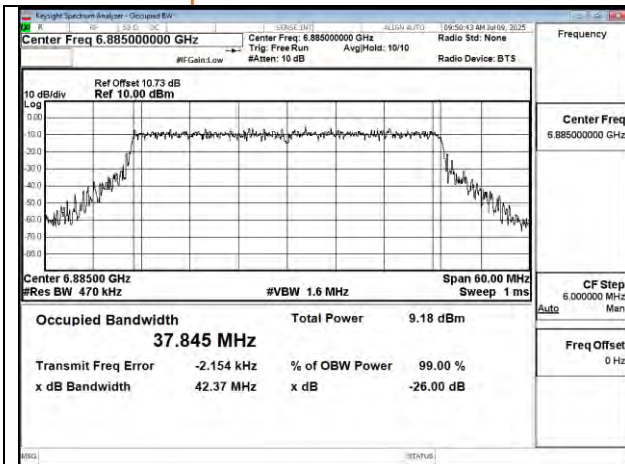


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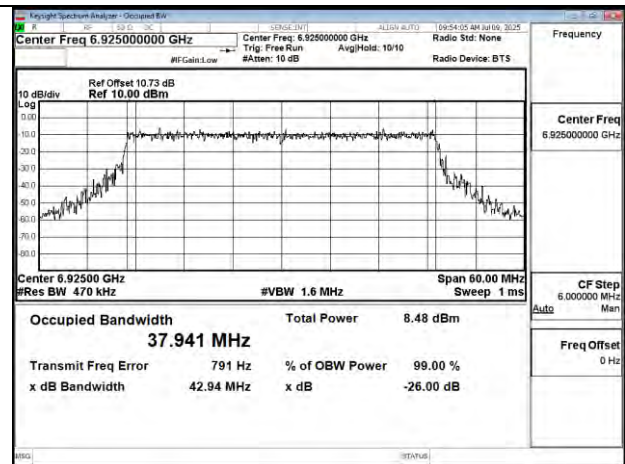
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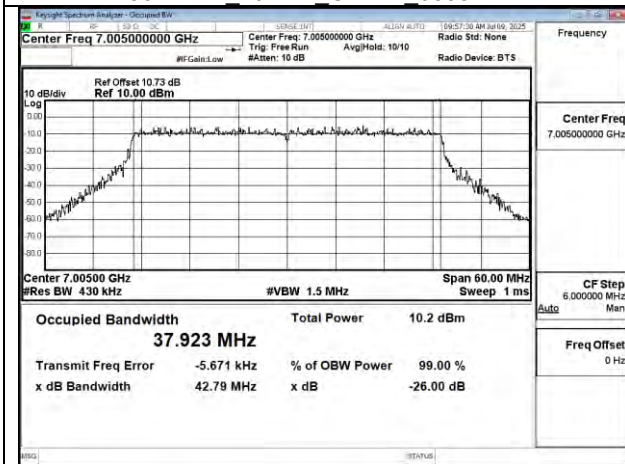
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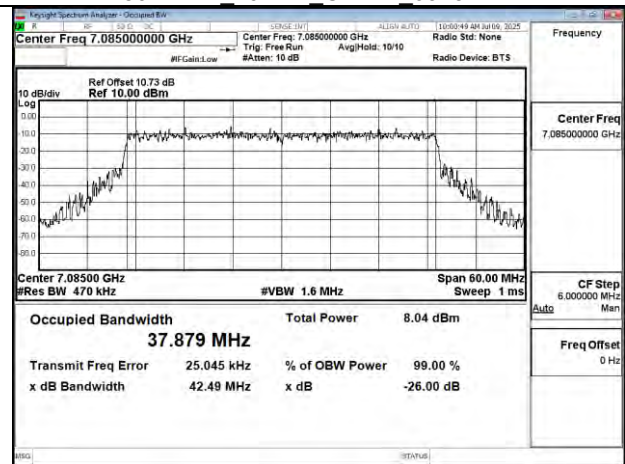
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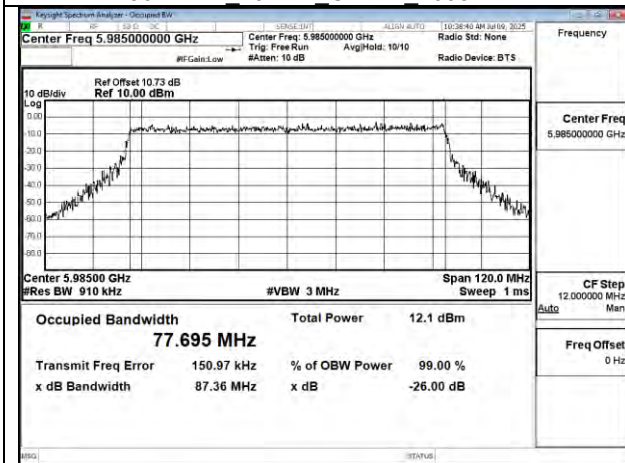
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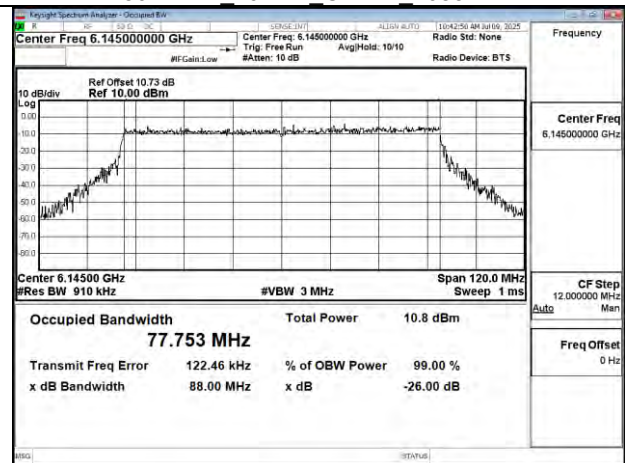
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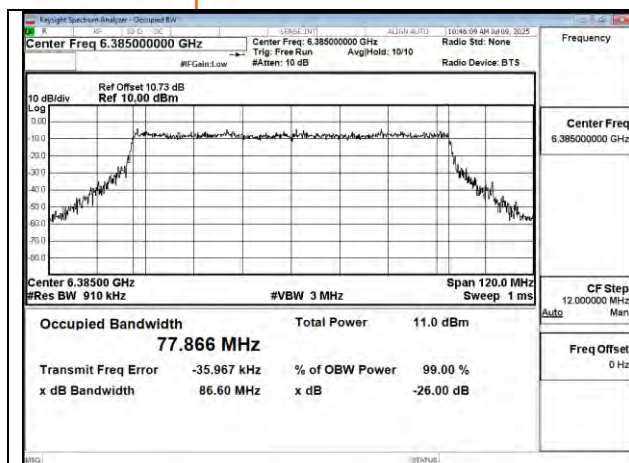


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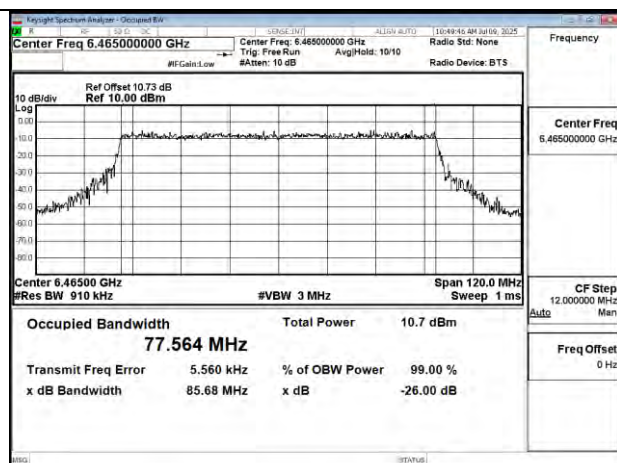
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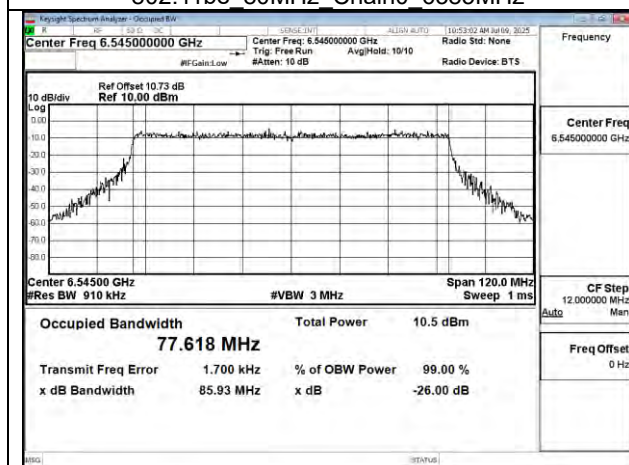
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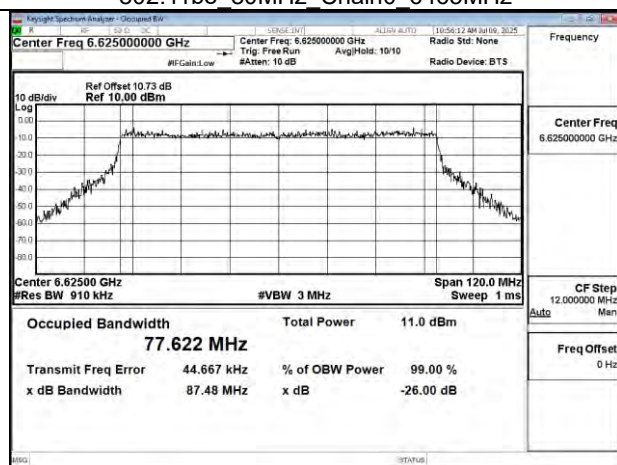
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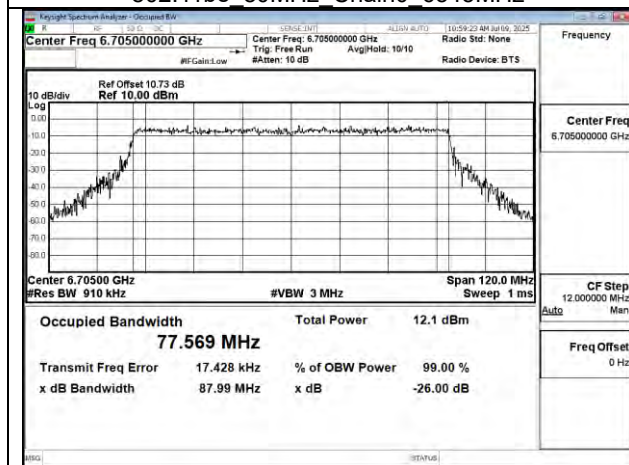
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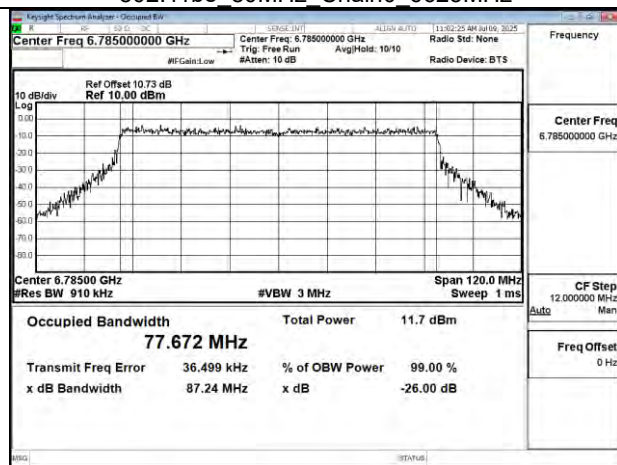
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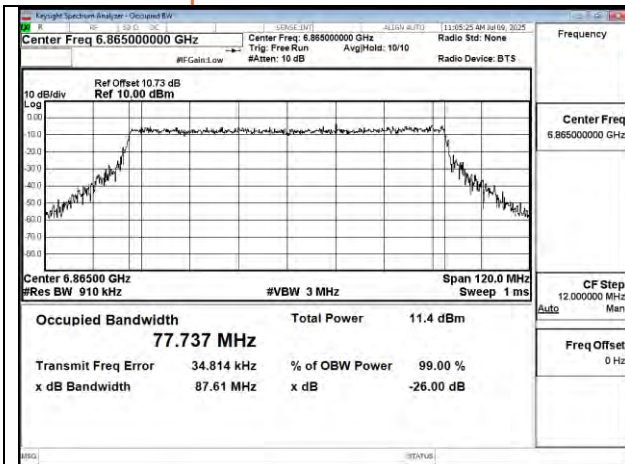


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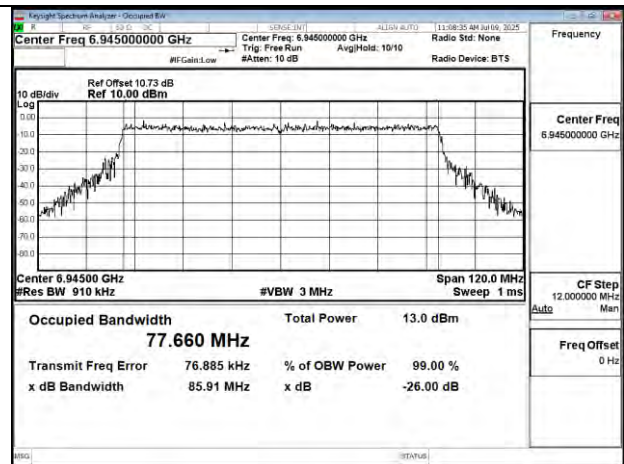
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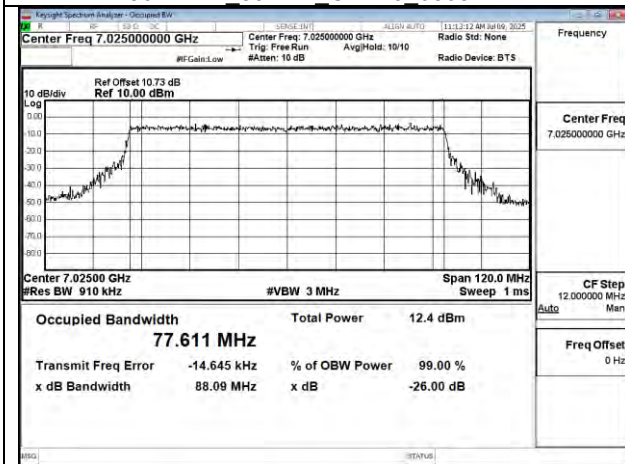
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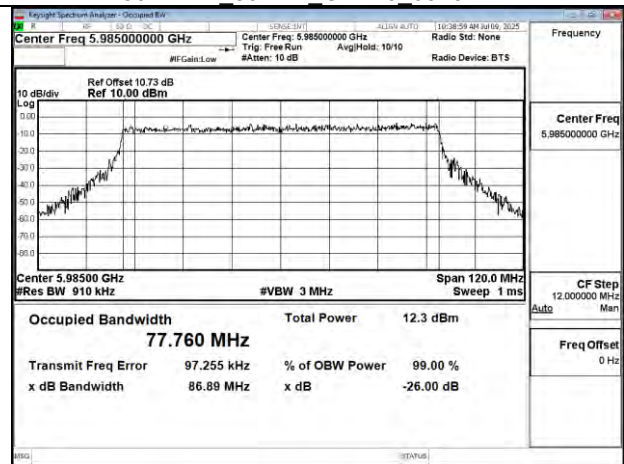
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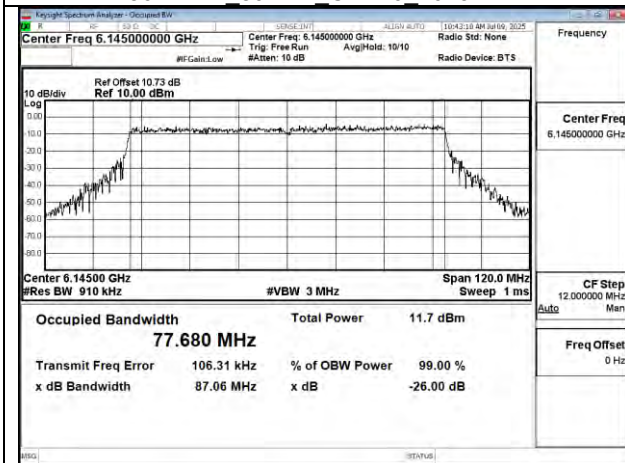
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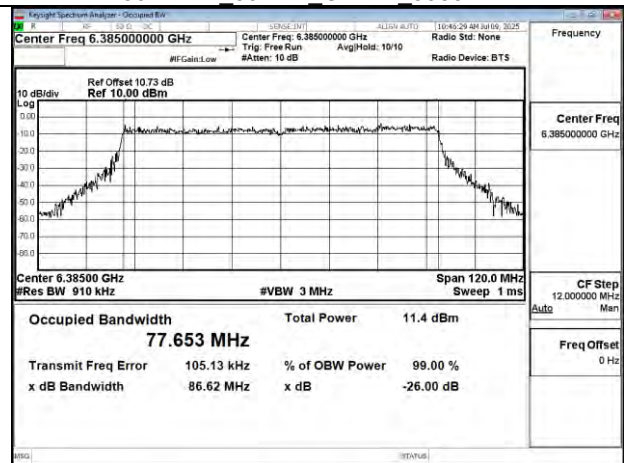
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802.11be 80MHz Chain1 5985MHz



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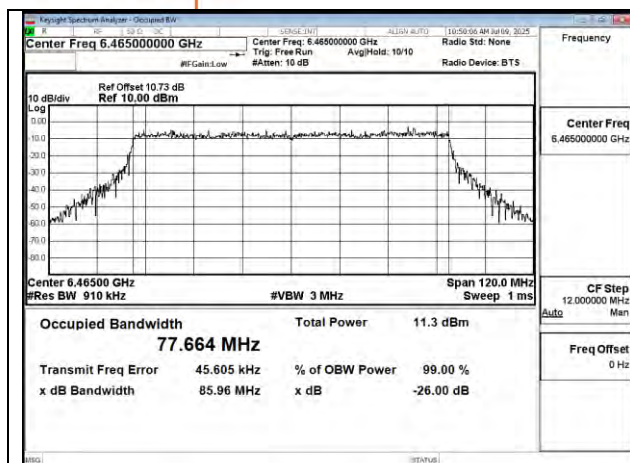


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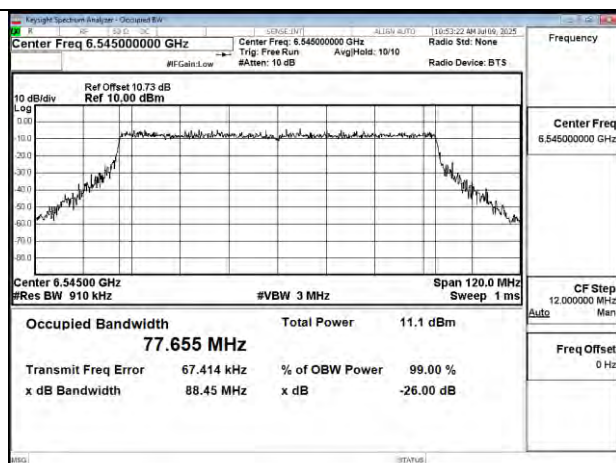
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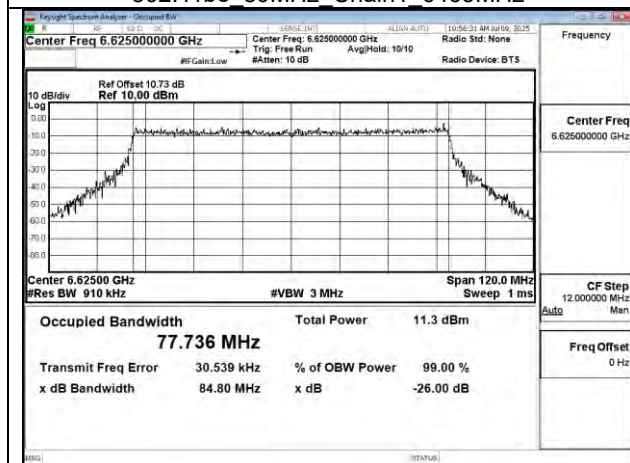
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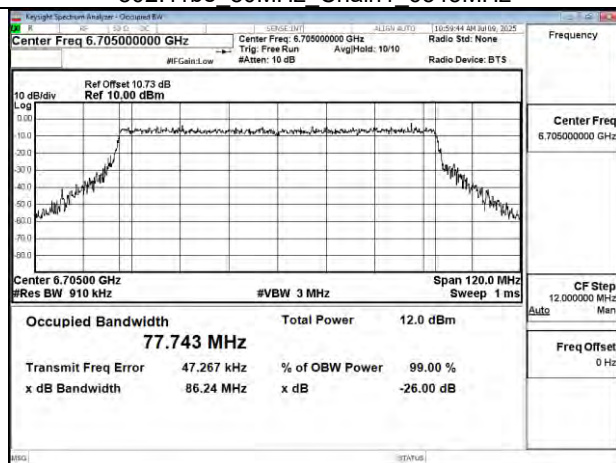
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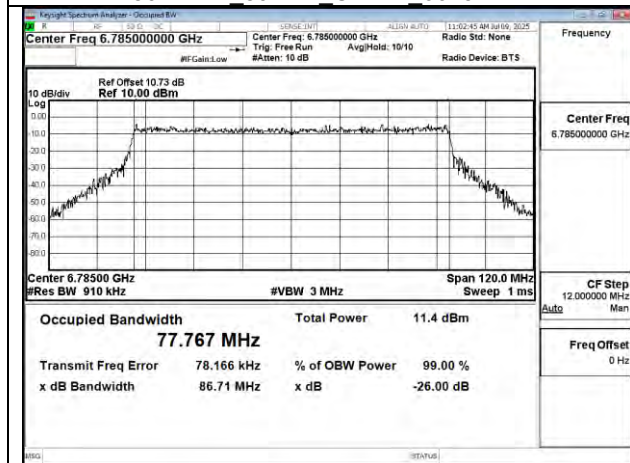
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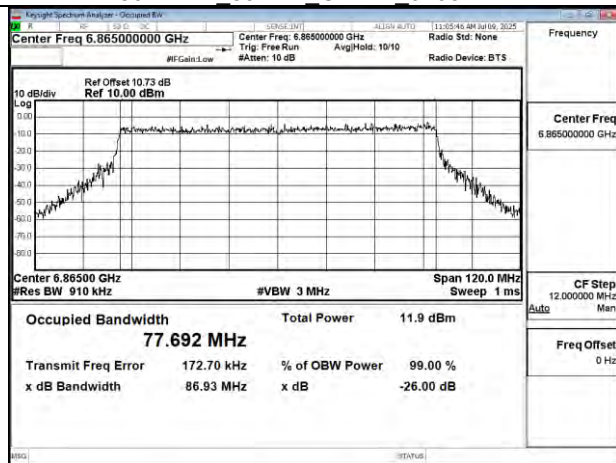
802.11be 80MHz Chain1 6625MHz



802.11be 80MHz Chain1 6705MHz



802.11be 80MHz Chain1 6785MHz



802.11be 80MHz Chain1 6865MHz

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