

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description: Open-Q 8550CS SOM
Applicant: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA
Manufacturer: Lantronix, Inc.
48 Discovery, Suite 250 Irvine, CA 92618 USA
Brand Name: LANTRONIX
Model No./ISED HVIN: Open-Q 8550CS SOM
ISED PMN: Open-Q 8550CS SOM
Report Number: TERF2511004095ER
FCC ID R68OQ8550
IC: 3867A-OQ8550
Date of EUT Received: November 28, 2025
Date of Test: December 01, 2025 ~ February 12, 2026
Issue Date: February 24, 2026

Jazz Huang

Approved By

Jazz Huang

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 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-248. 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
TERF2511004095ER	00	Original	February 13, 2026	Yuri Tsai	
TERF2511004095ER	01	Update section1.1	February 23, 2026	Yuri Tsai	*
TERF2511004095ER	02	Update section2.1	February 24, 2026	Yuri Tsai	*

Note:

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

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Table of Contents

1	GENERAL INFORMATION	5
1.1	Product Description	5
1.2	RF Specification	5
1.3	Antenna Designation	6
1.4	Rated Power	7
1.5	Operating Frequencies	9
1.6	EUT Availability and The Worst Test Modes	11
2	SUMMARY OF TEST RESULTS	16
2.1	Test Methodology of Applied Standards	16
2.2	Measurement Uncertainty	17
2.3	Test Facility	18
3	Control Unit(s) and peripheral(s)	19
3.1	EUT Exercise	19
3.2	Diagrams	19
3.3	List	20
4	TEST INSTRUMENT	21
4.1	Emission from AC power line	21
4.2	Conducted Measurement	21
4.3	Contention Based Protocol Measurement	21
4.4	Radiated Measurement	22
5	REGULATORY REQUIREMENTS	23
5.1	Emission Bandwidth	23
5.2	Maximum Output Power	23
5.3	Maximum Power Spectral Density	24
5.4	In-Band Emission	25
5.5	Unwanted Emissions	25
5.6	Contention Based Protocol	26
5.7	AC Power Line Conducted Emission	27
5.8	Antenna Requirements	27
6	TEST CONFIGURATION	28
6.1	Emission Bandwidth	28
6.2	Maximum Output Power	28
6.3	Maximum Power Spectral Density	29
6.4	In-Band Emission	30
6.5	Unwanted Emissions	31
6.6	Contention Based Protocol	34
6.7	AC Power Line Conducted Emission	36
7	TEST RESULTS	38
7.1	Emission Bandwidth	38
7.2	Maximum Output Power	86
7.3	Maximum Power Spectral Density	98
7.4	In-Band Emission	171

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7.5	Unwanted Emissions.....	209
7.6	Contention Based Protocol	777
7.7	AC Power Line Conducted Emission	793

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Open-Q 8550CS SOM
Brand Name	LANTRONIX
Model No./ISED HVIN	Open-Q 8550CS SOM
Firmware Version	Open-Q 8550 Android BSP v1.3
Power Supply	3.8Vdc from battery or 5Vdc from USB
Test Software (Name/Version)	Qualcomm® Radio Control Toolkit v4.1/Version 4.0.175.1

1.2 RF Specification

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a
	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
	802.11ax_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

Ant. Type	Ant. No.	Freq (MHz) / Peak Gain (dBi)
Dipole	Ch0	5925~6425:8.09 6425~6525: 8.09 6525~6875: 8.09 6875~7125: 8.09
Dipole	Ch1	5925~6425: 8.09 6425~6525: 8.09 6525~6875: 8.09 6875~7125: 8.09

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. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
- 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). e). (ii) of FCC KDB 662911 D01.

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1.4 Rated Power

WLAN 6E

Mode	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
802.11a	5955~6415	24	6.79 dBm
	6435~6515	5	7.47 dBm
	6535~6875	18	7.72 dBm
	6895~7095	12	7.74 dBm

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Mode	Frequency Range	Channels	Rated Power(EIRP) (dBm) (Worst Case)
802.11ax_HE20/ 802.11be_EHT20	5955~6415	24	7.67 dBm
	6435~6515	5	7.99 dBm
	6535~6875	18	8.19 dBm
	6895~7095	12	8.81 dBm
802.11ax_HE40/ 802.11be_EHT40	5965~6405	12	11.07 dBm
	6445~6525	3	11.58 dBm
	6565~6845	8	11.54 dBm
	6885~7085	6	10.91 dBm
802.11ax_HE80/ 802.11be_EHT80	5985~6385	6	13.59 dBm
	6465	1	12.95 dBm
	6545~6865	5	13.79 dBm
	6945~7025	2	13.32 dBm
802.11ax_HE160/ 802.11be_EHT160	6025~6345	3	16.78 dBm
	6505	1	15.96 dBm
	6665~6825	2	15.74 dBm
	6985	1	14.74 dBm
802.11be_EHT320	6105~6265	3	18.26 dBm
	6425	1	16.98 dBm
	6585~6745	2	18.45 dBm
	6905	1	17.06 dBm

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1.5 Operating Frequencies

UNII-5 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz
UNII-5 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz
UNII-5 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz	-	-	-	-
UNII-5 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
15	6025 MHz	47	6185 MHz	79	6345 MHz	-	-
UNII-5 Bandwidth: 320MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
31	6105 MHz	63	6265 MHz	-	-	-	-

UNII-6 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz	-	-	-	-	-	-
UNII-6 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
99	6445 MHz	107	6485 MHz	115	6525 MHz	-	-
UNII-6 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
103	6465 MHz	-	-	-	-	-	-
UNII-6 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
111	6505 MHz	-	-	-	-	-	-
UNII-6 Bandwidth: 320MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
95	6425 MHz	-	-	-	-	-	-

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UNII-7 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	-	-	-	-
UNII-7 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
UNII-7 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
183	6865 MHz	-	-	-	-	-	-
UNII-7 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
143	6665 MHz	175	6825 MHz	-	-	-	-
UNII-7 Bandwidth: 320MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
127	6585 MHz	159	6745 MHz	-	-	-	-

UNII-8 Bandwidth: 20MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	-	-
UNII-8 Bandwidth: 40MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
187	6885 MHz	195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz	-	-	-	-
UNII-8 Bandwidth: 80MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
199	6945 MHz	215	7025 MHz	-	-	-	-
UNII-8 Bandwidth: 160MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
207	6985 MHz	-	-	-	-	-	-
UNII-8 Bandwidth: 320MHz							
CH	Freq.	CH	Freq.	CH	Freq.	CH	Freq.
191	6905 MHz	-	-	-	-	-	-

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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
V	802.11 a	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
V	802.11 be	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX

Note:

The 802.11be mode applies to 20 MHz (40 MHz, 80MHz, 160MHz, 320MHz), and the power of 802.11ax modes is the same or lower than that of the 802.11be. (Note: 802.11ax mode does not support 320MHz)

The worst-case 802.11a/be data will be presented in the test report.

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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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			
802.11be_EHT20	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			
802.11be_EHT40	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			
802.11be_EHT80	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			
802.11be_EHT160	6025~6345	15 to 79	15,47,79	OFDM	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	OFDM	MCS0	2TX
	6425	95	95			
	6585~6745	127 to 159	127,159			
	6905	191	191			

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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	242 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	484	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	996 484+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	996*2 996+484MRU1, 996+484MRU2, 996+484MRU3, 996+484MRU4,	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	996*4 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	2Tx
	6435~6515	97 to 113	105	OFDM		
	6535~6875	117 to 185	149	OFDM		
	6895~7095	189 to 229	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	2Tx
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7095	189 to 229	185,189,209,229	OFDM		
802.11be20	5955~6415	1 to 93	1,45,93	OFDM	MCS0	2Tx
	6435~6515	97 to 113	97,105,113	OFDM		
	6535~6875	117 to 185	117,149,181	OFDM		
	6895~7095	189 to 229	185,189,209,229	OFDM		
802.11be40	5955~6415	1 to 93	3,43,91	OFDM	MCS0	2Tx
	6435~6515	97 to 113	99,107	OFDM		
	6535~6875	117 to 185	115,123,147,179	OFDM		
	6895~7085	189 to 227	187,195,211,227	OFDM		
802.11be80	5985~6385	7 to 87	7,39,87	OFDM	MCS0	2Tx
	6465	103	103	OFDM		
	6545~6865	119 to 183	119,135,151,167,183	OFDM		
	6945~7025	199 to 215	199,215	OFDM		
802.11be160	6025~6345	15 to 79	15,47,79	OFDM	MCS0	2Tx
	6505	111	111	OFDM		
	6665~6825	143 to 175	143,175	OFDM		
	6985	207	207	OFDM		
802.11be320	6105~6265	31 to 63	31,63	OFDM	MCS0	2Tx
	6425	95	95	OFDM		
	6585~6745	127 to 159	127,159	OFDM		
	6905	191	191	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	242,26/0,26/8,52/37,52/40,106/53,106/54,52+26MRU1,52+26MRU3,106+26MRU1,106+26MRU3	2Tx
	6435~6515	97 to 113	97,105,113	OFDMA			
	6535~6875	117 to 185	117,149,181	OFDMA			
	6895~7095	189 to 229	185,189,209,229	OFDMA			
802.11be40	5955~6415	1 to 93	3,43,91	OFDMA	MCS0	484	2Tx
	6435~6515	97 to 113	99,107	OFDMA			
	6535~6875	117 to 185	115,123,147,179	OFDMA			
	6895~7085	189 to 227	187,195,211,227	OFDMA			
802.11be80	5985~6385	7 to 87	7,39,87	OFDMA	MCS0	996,484+242MRU2,484+242MRU4	2Tx
	6465	103	103	OFDMA			
	6545~6865	119 to 183	119,135,151,167,183	OFDMA			
	6945~7025	199 to 215	199,215	OFDMA			
802.11be160	6025~6345	15 to 79	15,47,79	OFDMA	MCS0	996x2,996+484MRU1,996+484MRU2,996+484MRU3,996+484MRU4	2Tx
	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	996x4,3x996MRU1,3x996MRU2,3x996MRU3,3x996MRU4,2x996+484MRU2,2x996+484MRU6,3x996+484MRU1,3x996+484MRU2,3x996+484MRU3,3x996+484MRU4,3x996+484MRU7,3x996+484MRU8	2Tx
	6425	95	95	OFDMA			
	6585~6745	127 to 159	127,159	OFDMA			
	6905	191	191	OFDMA			

Note:

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

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2 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(a)(11) §2.1049	RSS-248 §4.4	Emission Bandwidth	Compliant
§15.407(a)(4~9)	RSS-248 §4.5	Maximum Conducted Output Power	Compliant
§15.407(a)(4~9)	RSS-248 §4.5	Power Spectral Density	Compliant
§15.407(b)(7)	RSS-248 §4.6	In-band emission	Compliant
§15.205 §15.209 §15.407(b)(6)	RSS-248 §4.6	Undesirable Radiated Emissions	Compliant
§15.407(d)(6)	RSS-248 §4.7	contention-based protocol	Compliant
§15.203	N/A	Antenna Requirement	Compliant

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart E §15.407
2. ISED RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)
3. ISED RSS-248, issue 3 October 11, 2024
4. FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
5. FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
6. FCC KDB 662911 D01 Multiple Transmitter Output v02r01
7. ANSI C63.10-2020
8. ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.61 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	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.41 dB	1GHz - 18GHz
	+/- 3.89 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 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	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted 1	Chris Ye	1339-0A12-082025-0- 01369	21~23°C / 50~64%	2025/12/16 ~ 2026/02/12
CBP	Conducted 5	Billy Chang	1339-0A12-082025-0- 01396	21~25°C / 60~66%	2026/01/23 ~ 2026/02/05
Radiated	SAC 3	Nick Lin	1339-0A12-082025-0- 01384	20.5~21.5°C / 55~62%	2026/01/22 ~ 2026/02/03
Conduction	Conduction 1	Nick Lin	1339-0A12-082025-0- 01384	22.7~22.7°C / 59~59%	2026/01/26 ~ 2026/01/26

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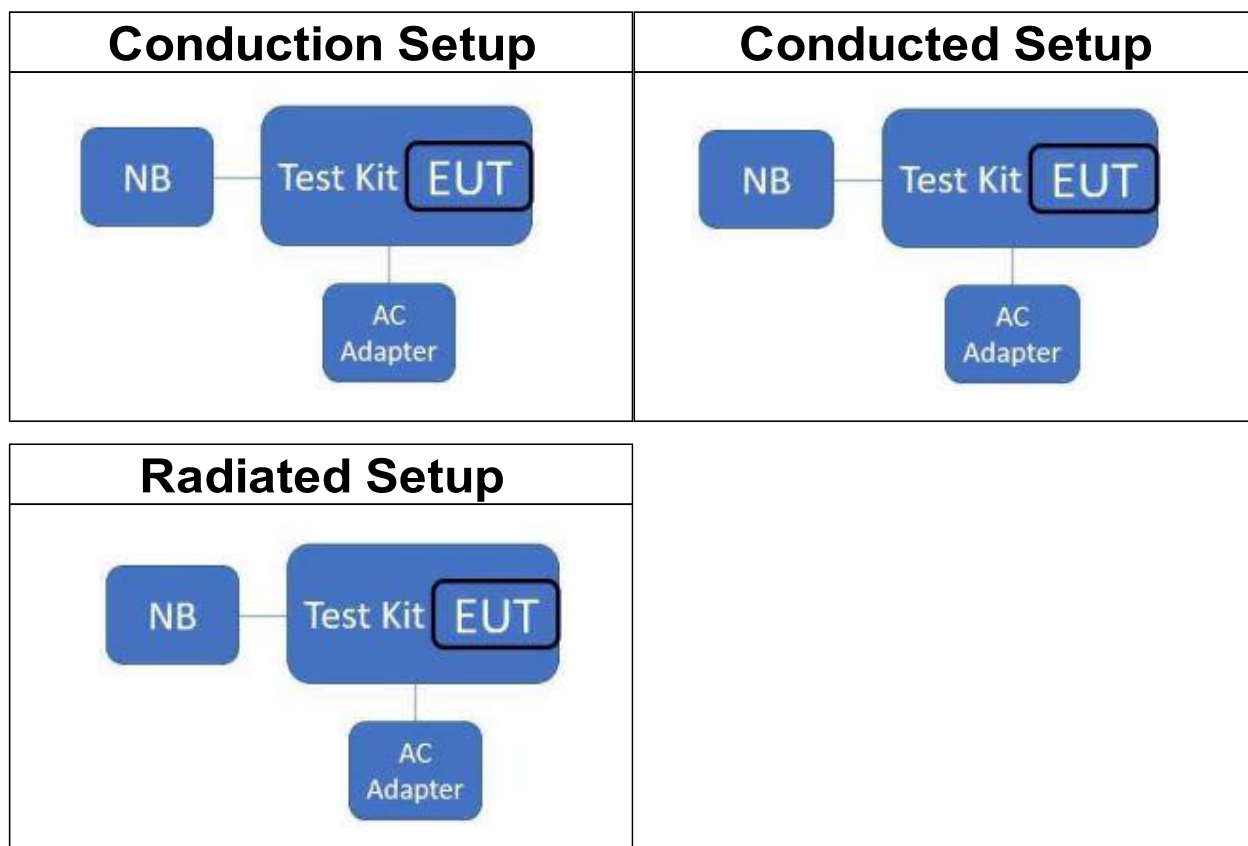
3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

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

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

3.2 Diagrams



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	SHENZHEN YINGHUIYUAN ELECTRONICS CO., LTD	YHY-12005000	N/A	N/A	N/A
Test Kit	LANTRONIX	LOQ-8550-EVK A11	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1QCNW8 19/06	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	SHENZHEN YINGHUIYUAN ELECTRONICS CO., LTD	YHY-12005000	N/A	N/A	N/A
Test Kit	LANTRONIX	LOQ-8550-EVK A11	N/A	N/A	N/A
Notebook	Lenovo	T440P	PC-01V5PW 14/11	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	SHENZHEN YINGHUIYUAN ELECTRONICS CO., LTD	YHY-12005000	N/A	N/A	N/A
Test Kit	LANTRONIX	LOQ-8550-EVK A11	N/A	N/A	N/A
Notebook	Lenovo	L480	PF-1QCNW8 19/06	N/A	N/A

3.3.4 Contention Based Protocol Setup

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Access Point	NETGEAR	RS700	FCC ID:PY323100586 IC ID:4054A- 23100586	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X45	N/A	N/A

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4 TEST INSTRUMENT

4.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2025	06/21/2026
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
LISN	SCHWARZBECK	NSLK 8127	1040	09/13/2025	09/12/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2025	06/21/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

4.2 Conducted Measurement

Conducted Emission Test Site: Conducted 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Mini-Circuits	BW-S10W2+	6	12/07/2025	12/06/2026
Attenuator	Mini-Circuits	BW-S10W2+	8	12/07/2025	12/06/2026
DC Block	Mini-Circuits	BLK-18-S+	10	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/24/2025	06/23/2026
Power Meter	Anritsu	ML2496A	1242004	10/23/2025	10/22/2026
Power Sensor	Anritsu	MA2411B	1207365	11/06/2025	11/05/2026
Power Sensor	Anritsu	MA2411B	1207368	10/23/2025	10/22/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

4.3 Contention Based Protocol Measurement

Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	Titan	T0610A00127A	SNK47009	12/07/2025	12/06/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	07/14/2025	07/13/2026
Frequency Extender	KEYSIGHT	N5182BX07	MY59360217	03/08/2025	03/07/2026
Manual Attenuator	HP	8495B+8494B	2812A17605+3308A 22470	12/07/2025	12/06/2026
Signal Generator	KEYSIGHT	N5182B	MY59100743	03/08/2025	03/07/2026
Splitter	RF-Lambda	RFLT2W1G18G	18112200202	12/07/2025	12/06/2026
Splitter	RF-Lambda	RFLT4W1G18G	SPCD10-010	12/07/2025	12/06/2026
Splitter	Titan	T0510E4W118Q	22015177	12/07/2025	12/06/2026
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R

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4.4 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
8.5G High Pass Filter	Titan	T04H85002500060S01	210519-2-7	12/07/2025	12/06/2026
Attenuator	Mini-Circuits	BW-S10W2+	15	12/07/2025	12/06/2026
Band Reject Filter 5925-6425	Warison	WFIL-N5925-6425F	WRGBAFWC2F9	12/07/2025	12/06/2026
Band Reject Filter 6425-6525	Warison	WFIL-N6425-6525F	WRGBAFWC2J1	12/07/2025	12/06/2026
Band Reject Filter 6525-6875	Warison	WFIL-N6525-6875F	WRGBAFWC2J4	12/07/2025	12/06/2026
Band Reject Filter 6875-7125	Warison	WFIL-N6875-7125F	WRGBAFWC2J9	12/07/2025	12/06/2026
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/21/2025	08/20/2026
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM-1000 +SUCOFLEX 104PEA +EMC107-SM-SM-1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096/6)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESCI 7	100759	09/02/2025	09/01/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	07/04/2025	07/03/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	10/03/2025	10/02/2026
Loop Antenna	COM-POWER	AL-130R	10160104	12/30/2025	12/29/2026
Pre-Amplifier	EMCI	EMC118A45SEE	980868	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A07676	07/14/2025	07/13/2026
Site Cal	SGS	SAC 3	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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

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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

	EUT Category	Equipment Class	§15.407(a)
	Very low power devices	VLP	EIRP < 14dBm
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 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 degrees < 21dBm EIRP for outdoor use
V	Indoor Client	6XD	EIRP < 24dBm
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power
	Dual Client	6CD	Compliance both indoor client and standard client limit

	Equipment Class	§RSS-248 4.5
	Low-power indoor access points and indoor subordinate devices	EIRP < 30dBm
V	Low-power client devices	EIRP < 24dBm
	Standard-power access points and fixed client devices	EIRP < 36dBm antenna angle above 30 degrees < 21dBm EIRP for outdoor use
	Standard client devices	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power
	Very low-power devices	EIRP < 14dBm

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

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operation that expresses the percentage.

5.3 Maximum Power Spectral Density

	EUT Category	Equipment Class	§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
V	Indoor Client	6XD	EIRP < -1dBm/MHz
	Standard Client	6FX	EIRP < 17dBm/MHz
	Dual Client	6CD	Compliance both indoor client and standard client limits

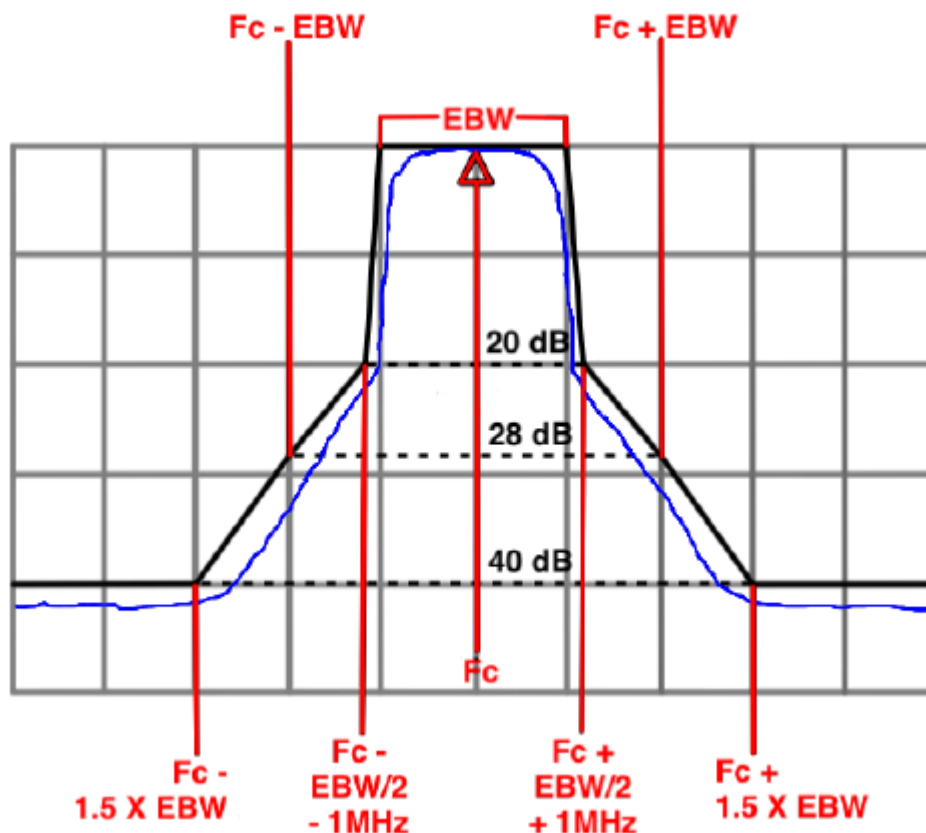
	Equipment Class	§RSS-248 4.5
	Low-power indoor access points and indoor subordinate devices	EIRP < 5dBm/MHz
V	Low-power client devices	EIRP < -1dBm/MHz
	Standard-power access points and fixed client devices	EIRP < 23dBm/MHz
	Standard client devices	EIRP < 17dBm/MHz
	Very low-power devices	EIRP < -5dBm/MHz

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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 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 this frequency range must not exceed an e.i.r.p. of -27 dBm/MHz. Emissions below 1 GHz must comply with the applicable general field strength limits.

The provisions for restricted bands apply to intentional radiators operating under this section.

Measurement procedures for frequencies below and above 1 GHz shall follow the applicable regulatory guidance. Unwanted emissions outside of restricted bands are measured using an RMS detector. In addition, peak emissions must not exceed the average limit by

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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.

Above 1GHz and non-restricted limit

EIRP LIMIT	FIELD STRENGTH AT 3m
Peak: -7 (dBm/MHz) AV: -27 (dBm/MHz)	Peak: 88.2 (dBμV/m) AV: 68.2 (dBμV/m)
$EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.7$ $E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.7$	

5.6 Contention Based Protocol

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 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

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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 AC Power Line Conducted Emission

Frequency range within 150kHz to 30MHz 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		

5.8 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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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. The testing is performed in accordance with the applicable general UNII test procedures.
2. Remove the antenna from the EUT and connect a low-loss RF cable from the antenna port to the spectrum analyzer.
3. Place the EUT on the table and set it to transmit mode.
4. 26 dB Bandwidth Measurement:
 - 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.
 - Use the X dB bandwidth mode function of the spectrum analyzer and set to 26dB.
5. 99% Bandwidth Measurement:
 - Set the spectrum analyzer as
 - RBW=1% to 5% of the 99%
 - VBW $\geq 3 \times$ RBW
 - Span = 1.5 times to 5.0 times the OBW,
 - Detector=Sample/Peak,
 - Sweep=Auto
 - Turn on the 99% bandwidth function, max reading.
 - Repeat above procedures until all frequency of interest measured was complete.

6.2 Maximum Output Power

6.2.1 Duty Cycle



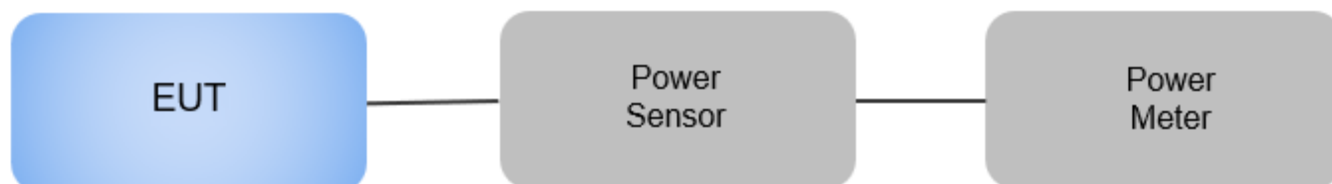
Set the spectrum analyzer as

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Span = Zero,
RBW = 8 MHz,
VBW = 8 MHz,
Detector = Peak,

6.2.2 Maximum Output Power

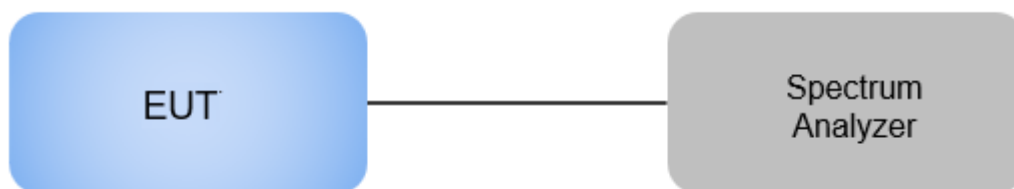


1. The testing is performed in accordance with the applicable general UNII test procedures.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were 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

Directional Gain

$$= 10 \times \log \left\{ \frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2}{N_{\text{ant}}} \right\}$$

6.3 Maximum Power Spectral Density



1. The testing is performed in accordance with the applicable general UNII test procedures.
2. Place the EUT on the table and set it to transmit mode.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum

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4. 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)
5. Use the cursor on spectrum to peak search the highest level of trace
 - (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

Directional Gain

$$= 10 \times \log \left\{ \frac{\left(10^{\frac{G_1}{20}} + 10^{\frac{G_2}{20}} + \dots + 10^{\frac{G_n}{20}} \right)^2}{N_{\text{ant}}} \right\}$$

6.4 In-Band Emission



The test is conducted in accordance with the applicable regulatory measurement procedure.

Place the EUT on the table and set it to transmit mode.

Configure the spectrum analyzer as follows:

Set the span to encompass the entire 26 dB EBW of the signal

Set RBW = same RBW used for 26 dB EBW measurement

Set VBW $\geq 3 \times$ RBW

Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.

Sweep time = auto.

Detector = RMS

Trace average at least 100 traces in power averaging (rms) mode

Use the peak search function on the instrument to find the peak of the spectrum.

For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.

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6.5 Unwanted Emissions

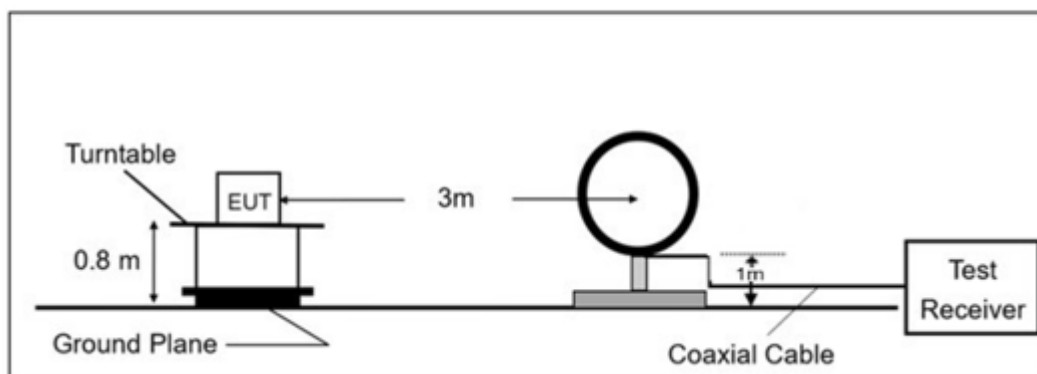
6.5.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

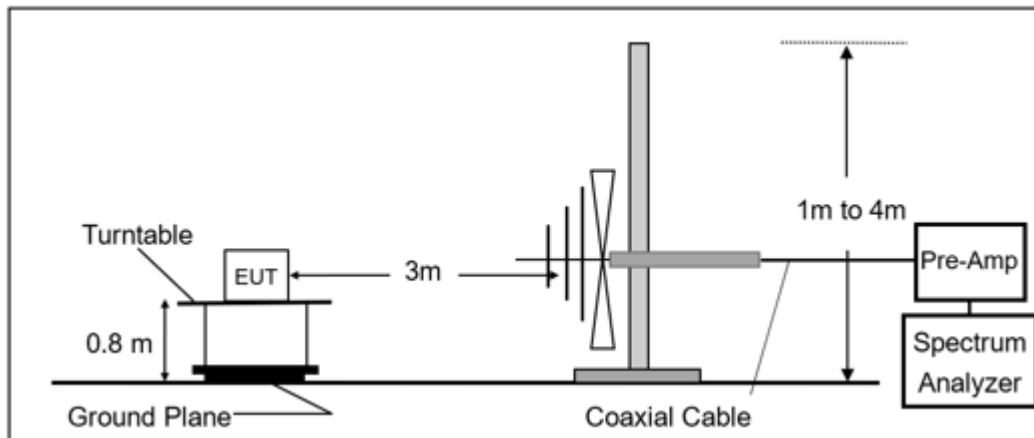
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



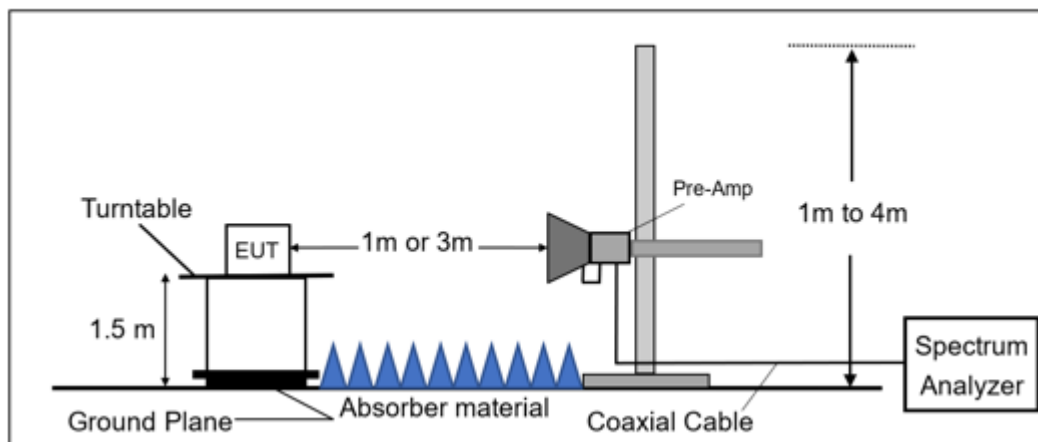
Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



6.5.2 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. For measurements below 30MHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=10 kHz
 - VBW=30 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=10 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements in 30MHz to 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement
 - RBW=100 kHz
 - VBW=300 kHz
 - Detector = peak
 - Trace mode = max-hold
 - ☒ For Quasi-peak measurement in receiver mode
 - RBW=120 kHz
 - Detector = Quasi-Peak
 - Peak detection is used unless otherwise noted as quasi-peak.
7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:
 - RBW=1 MHz

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VBW=3 MHz

Detector = peak

Trace mode = max-hold

☒ For Average measurement:

☒ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

☐ Duty cycle $\geq 98\%$:

RBW=1 MHz

VBW=10 Hz

Detector = peak

Trace mode = max-hold

☒ Duty cycle $< 98\%$

RBW=1 MHz

VBW $\geq 1/T$

Detector = peak

Trace mode = max-hold

☐ Duty cycle $< 98\%$

RBW=1 MHz

VBW ≥ 3 MHz

Detector = Power averaging (rms)

trace average was performed over at least 100 traces

add Duty cycle factor(dB).

8. When 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.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. 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.

6.5.3 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

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

Where:

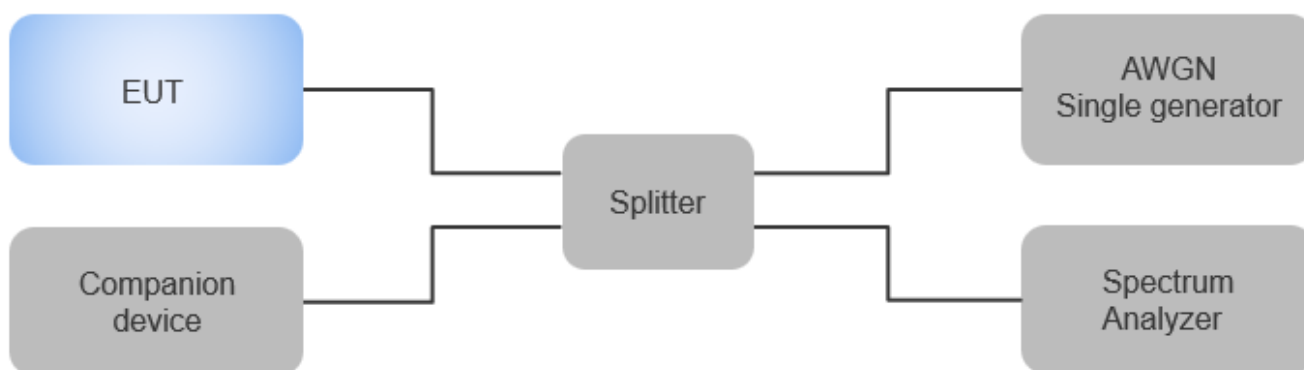
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FS = Field Strength (dB μ V/m)
 RA = Reading Amplitude (dB μ V)
 AF = Antenna Factor (dB/m)
 CL = Cable Loss (dB)
 AG = Amplifier Gain (dB)

The emission limit is expressed in dB μ V/m, which corresponds to the logarithmic conversion of $20 \times \log_{10} (\mu\text{V/m})$.

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.
 For power of AWGN signal, set the spectrum analyzer as
 Span > 99% OBW
 RBW = 1 MHz
 VBW $\geq$ 3 MHz
 Sweep time = auto
 Detector = Power averaging (rms)
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.

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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).

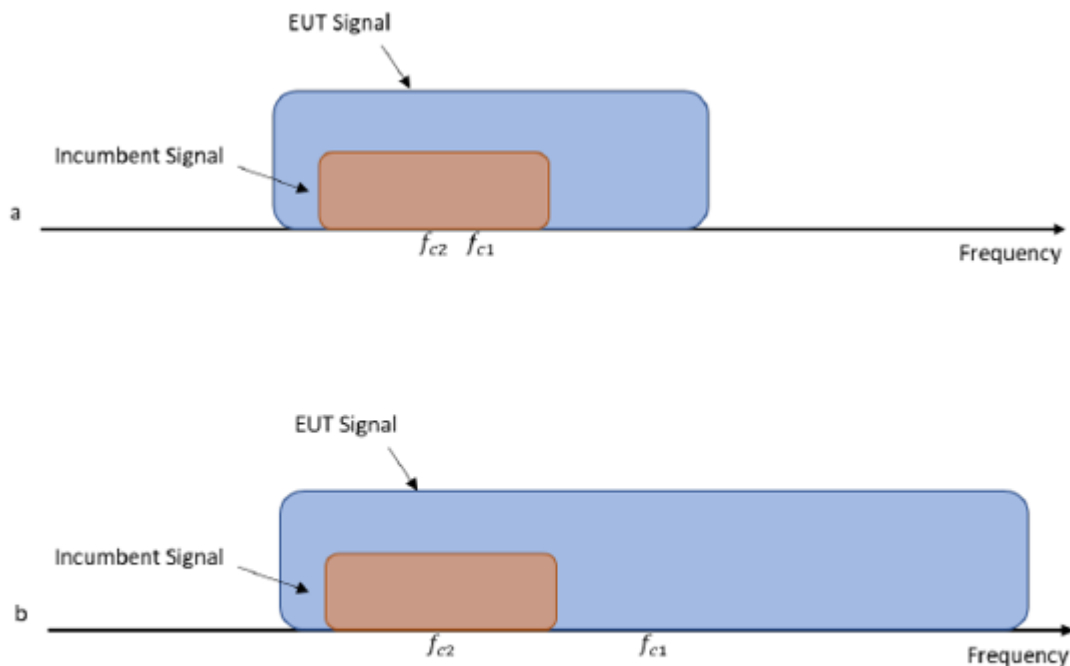


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within the incumbent's bandwidth, or b) outside of it

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Table 1. Criteria to determine the 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}
$TwoBW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is close to the EUT channel's lower and upper edges.
$fourBW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of the EUT channel, and as closely as possible to the upper edge of the EUT channel.

Where:

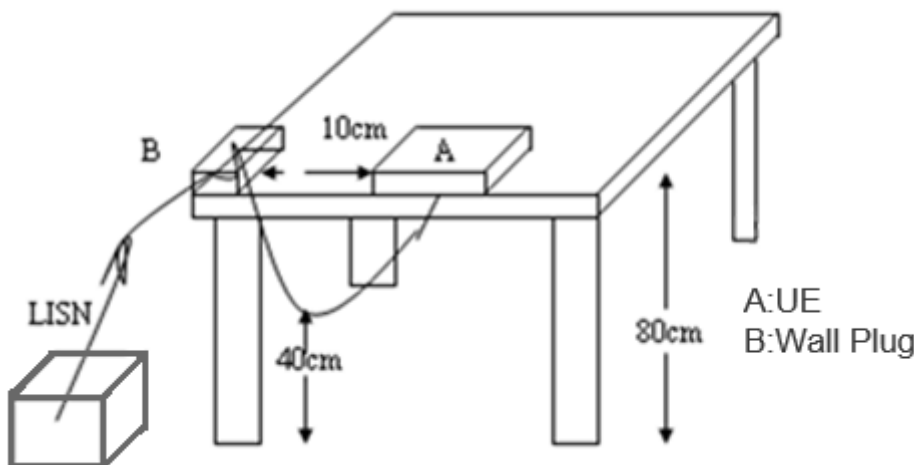
BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : The center frequency of EUT transmission

f_{c2} : Center frequency of the simulated incumbent signal

6.7 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

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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.

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7 TEST RESULTS

7.1 Emission Bandwidth

802.11a_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.559	20.81
45	6175	16.587	20.66
93	6415	16.587	20.63
97	6435	16.571	20.62
105	6475	16.578	20.32
113	6515	16.602	20.48
117	6535	16.552	21.11
149	6695	16.532	20.24
181	6855	16.604	20.76
185	6875	16.614	21.17
189	6895	16.569	20.91
209	6995	16.538	20.80
229	7095	16.537	20.13

802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.600	20.76
45	6175	16.618	21.45
93	6415	16.595	20.18
97	6435	16.585	20.92
105	6475	16.579	20.56
113	6515	16.607	20.99
117	6535	16.604	20.30
149	6695	16.571	20.60
181	6855	16.605	20.49
185	6875	16.587	20.82
189	6895	16.607	21.03
209	6995	16.606	20.73
229	7095	16.589	21.13

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802.11be_EHT20_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	19.059	22.90
45	6175	19.176	23.20
93	6415	19.088	22.14
97	6435	19.058	22.43
105	6475	19.030	22.43
113	6515	19.011	22.63
117	6535	19.035	22.25
149	6695	19.026	21.89
181	6855	19.000	23.00
185	6875	19.029	22.51
189	6895	19.060	22.33
209	6995	19.019	22.16
229	7095	19.054	22.65

802.11be_EHT20_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	19.080	22.44
45	6175	19.045	23.53
93	6415	18.986	22.25
97	6435	19.084	22.01
105	6475	19.126	22.16
113	6515	19.064	21.83
117	6535	19.055	23.12
149	6695	19.154	22.71
181	6855	19.064	21.84
185	6875	19.083	22.03
189	6895	19.034	23.24
209	6995	19.066	22.19
229	7095	19.162	22.36

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802.11be_EHT40_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.871	42.71
43	6165	38.040	42.99
91	6405	37.913	42.21
99	6445	38.064	42.86
107	6485	37.982	42.69
115	6525	37.946	42.61
123	6565	37.940	41.52
147	6685	37.906	43.82
179	6845	37.918	41.47
187	6885	38.044	42.17
195	6925	37.958	41.78
211	7005	38.042	42.13
227	7085	38.032	43.38

802.11be_EHT40_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.967	42.51
43	6165	37.923	41.93
91	6405	37.972	42.68
99	6445	37.933	43.07
107	6485	37.919	42.22
115	6525	37.925	44.31
123	6565	37.866	43.45
147	6685	37.838	41.33
179	6845	37.937	40.52
187	6885	38.020	42.37
195	6925	37.961	42.40
211	7005	37.921	42.03
227	7085	37.918	43.35

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802.11be_EHT80_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.602	86.50
39	6145	77.528	85.77
87	6385	77.584	85.46
103	6465	77.922	87.48
119	6545	77.596	85.84
135	6625	77.952	88.77
151	6705	77.573	85.26
167	6785	77.947	86.10
183	6865	77.644	88.12
199	6945	77.599	85.34
215	7025	77.697	84.10

802.11be_EHT80_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.578	85.95
39	6145	77.680	86.32
87	6385	77.429	84.63
103	6465	77.842	86.74
119	6545	77.432	84.84
135	6625	77.729	85.83
151	6705	77.460	84.47
167	6785	77.655	86.28
183	6865	77.583	85.94
199	6945	77.589	85.63
215	7025	77.735	85.31

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802.11be_EHT160_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.68	169.8
47	6185	157.14	174.9
79	6345	156.93	170.8
111	6505	156.73	170.0
143	6665	156.59	167.1
175	6825	156.41	168.8
207	6985	156.02	166.3

802.11be_EHT160_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	157.11	171.1
47	6185	156.95	167.8
79	6345	157.08	170.1
111	6505	156.77	169.7
143	6665	156.41	164.2
175	6825	156.04	165.3
207	6985	156.07	164.3

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802.11be_EHT320_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	315.16	332.6
63	6265	315.96	333.9
95	6425	314.61	330.3
127	6585	315.54	334.3
159	6745	314.77	336.8
191	6905	315.55	386.9

802.11be_EHT320_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	314.04	330.0
63	6265	315.37	334.3
95	6425	314.71	333.9
127	6585	315.20	335.9
159	6745	312.71	331.7
191	6905	315.51	399.9

802.11be_EHT20_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	242	19.031	21.91
45	6175	242	19.009	21.82
93	6415	242	19.000	21.70
97	6435	242	18.979	21.54
105	6475	242	18.985	21.70
113	6515	242	19.008	21.65
117	6535	242	18.994	20.58
149	6695	242	18.983	21.87
181	6855	242	19.027	21.53
185	6875	242	18.987	21.64
189	6895	242	19.028	21.98
209	6995	242	18.960	21.42
229	7095	242	19.012	21.97

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802.11be_EHT20_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	242	19.036	21.66
45	6175	242	19.033	21.74
93	6415	242	19.034	21.51
97	6435	242	19.021	21.64
105	6475	242	19.006	21.60
113	6515	242	19.037	21.98
117	6535	242	18.997	21.63
149	6695	242	19.009	21.46
181	6855	242	19.004	21.88
185	6875	242	19.022	21.51
189	6895	242	19.019	21.83
209	6995	242	19.015	21.32
229	7095	242	18.997	21.11

802.11be_EHT40_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	484	37.886	42.00
43	6165	484	37.867	44.42
91	6405	484	37.878	43.48
99	6445	484	37.931	42.95
107	6485	484	38.030	43.22
115	6525	484	37.966	42.19
123	6565	484	37.951	42.52
147	6685	484	37.820	42.54
179	6845	484	37.956	44.19
187	6885	484	37.904	43.94
195	6925	484	38.002	45.28
211	7005	484	37.885	42.76
227	7085	484	37.842	41.64

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802.11be_EHT40_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	484	37.893	41.89
43	6165	484	37.885	42.81
91	6405	484	37.906	42.37
99	6445	484	37.978	41.77
107	6485	484	37.968	43.17
115	6525	484	37.940	42.29
123	6565	484	37.918	42.66
147	6685	484	37.977	42.54
179	6845	484	37.986	42.79
187	6885	484	37.962	42.41
195	6925	484	37.936	42.57
211	7005	484	37.934	42.93
227	7085	484	37.925	42.88

802.11be_EHT80_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	996	77.552	86.16
39	6145	996	77.570	86.15
87	6385	996	77.684	85.08
103	6465	996	77.832	88.10
119	6545	996	77.623	87.25
135	6625	996	77.780	90.28
151	6705	996	77.558	83.59
167	6785	996	77.910	87.23
183	6865	996	77.716	86.40
199	6945	996	77.578	87.05
215	7025	996	77.823	87.26

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802.11be_EHT80_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	996	77.497	86.36
39	6145	996	77.588	84.95
87	6385	996	77.490	85.39
103	6465	996	77.682	88.60
119	6545	996	77.581	87.81
135	6625	996	77.789	87.42
151	6705	996	77.446	87.51
167	6785	996	77.634	87.72
183	6865	996	77.733	83.88
199	6945	996	77.455	84.73
215	7025	996	77.712	86.36

802.11be_EHT160_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	996*2	156.53	169.9
47	6185	996*2	157.13	172.6
79	6345	996*2	156.57	169.0
111	6505	996*2	157.13	181.3
143	6665	996*2	156.54	167.6
175	6825	996*2	156.42	172.0
207	6985	996*2	155.81	165.1

802.11be_EHT160_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	996*2	156.71	166.8
47	6185	996*2	156.82	171.2
79	6345	996*2	156.73	169.1
111	6505	996*2	156.59	206.0
143	6665	996*2	156.42	166.6
175	6825	996*2	156.35	167.1
207	6985	996*2	155.37	169.8

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802.11be_EHT320_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	996*4	315.50	335.9
63	6265	996*4	316.61	331.8
95	6425	996*4	315.44	331.5
127	6585	996*4	315.09	329.7
159	6745	996*4	315.10	330.6
191	6905	996*4	315.94	331.7

802.11be_EHT320_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	996*4	313.84	332.7
63	6265	996*4	315.18	331.4
95	6425	996*4	314.85	332.1
127	6585	996*4	314.87	333.1
159	6745	996*4	313.37	330.2
191	6905	996*4	314.93	330.3

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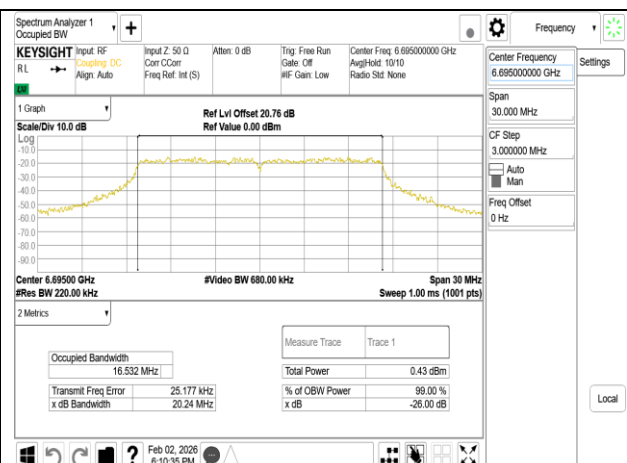
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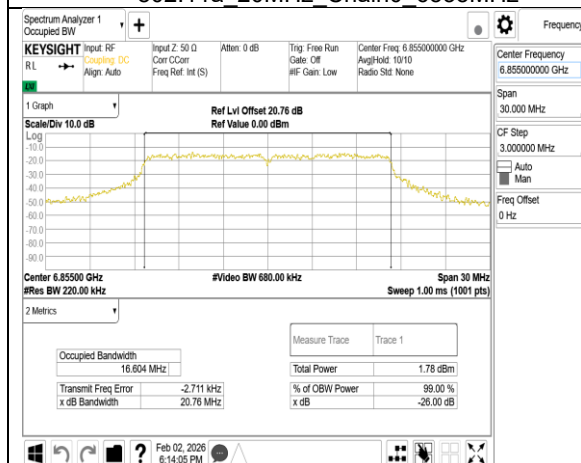
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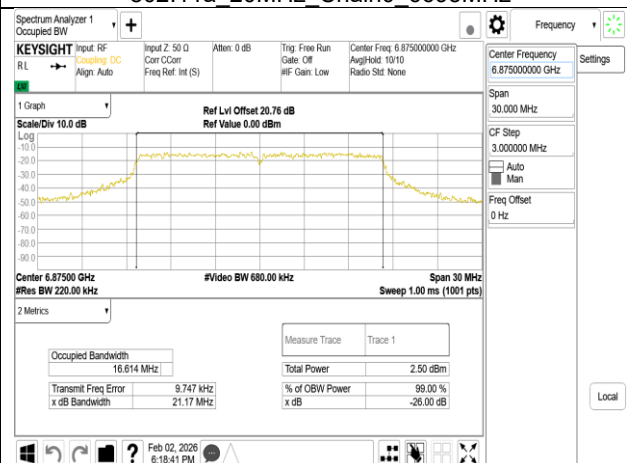
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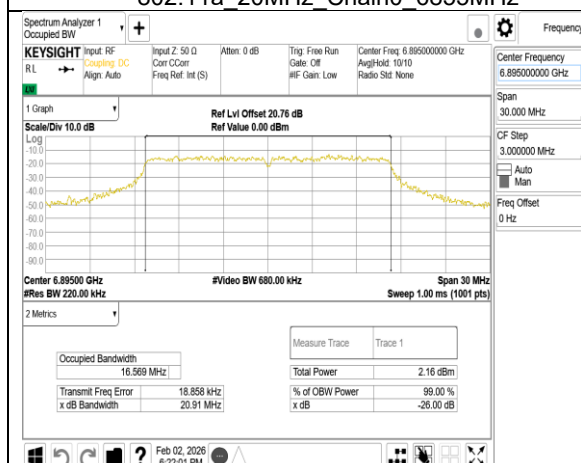
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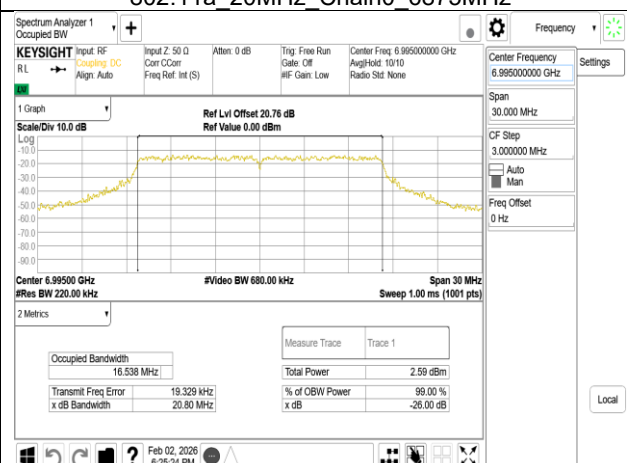
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802.11a 20MHz Chain0_6875MHz



802.11a 20MHz Chain0_6895MHz

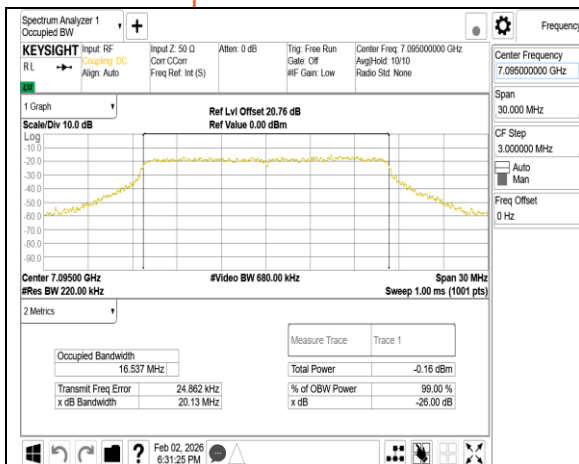


802.11a 20MHz Chain0_6995MHz

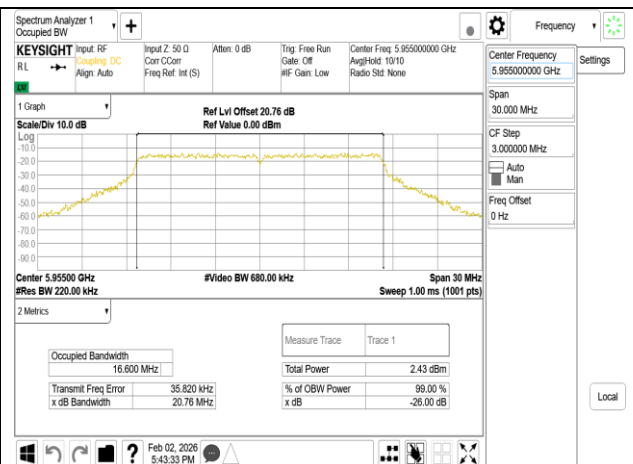
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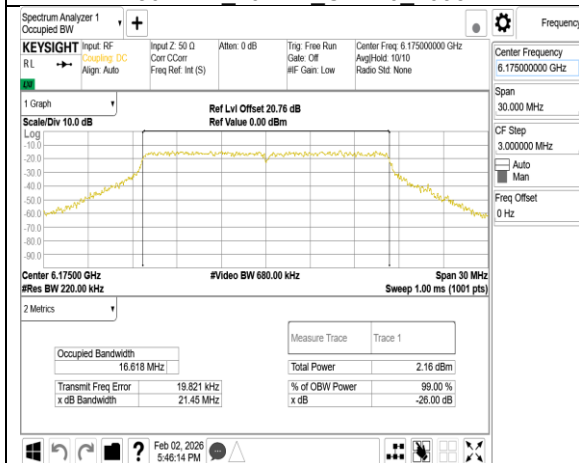
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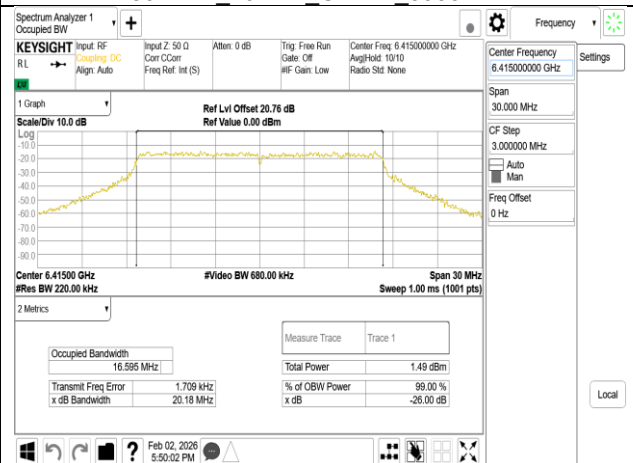
802.11a 20MHz Chain0 7095MHz



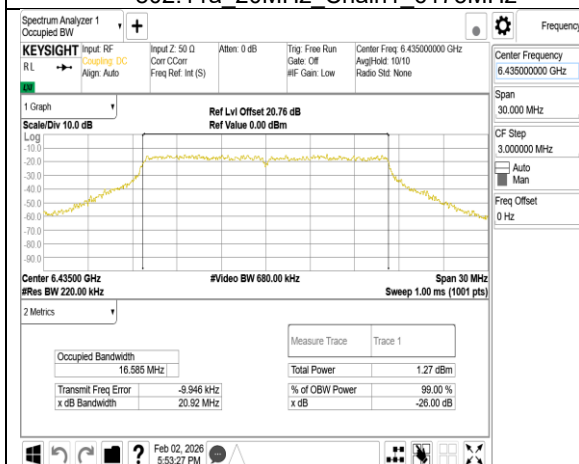
802.11a 20MHz Chain1 5955MHz



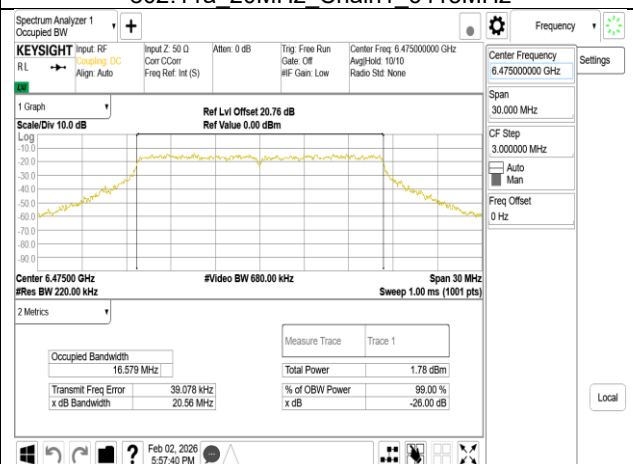
802.11a 20MHz Chain1 6175MHz



802.11a 20MHz Chain1 6415MHz



802.11a 20MHz Chain1 6435MHz



802.11a 20MHz Chain1 6475MHz

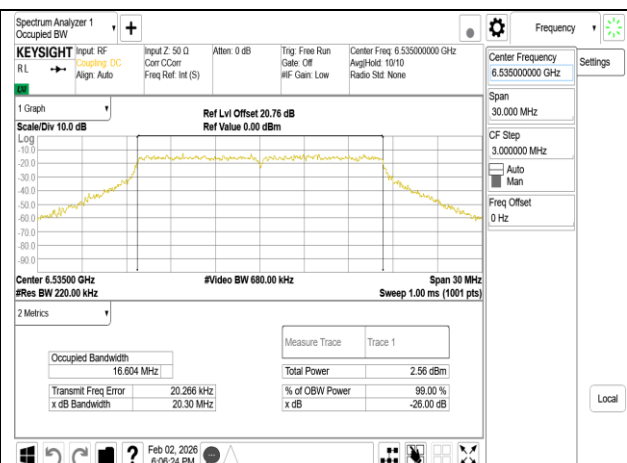
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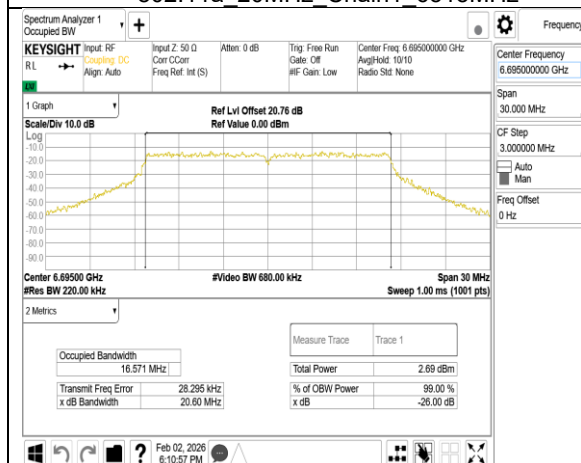
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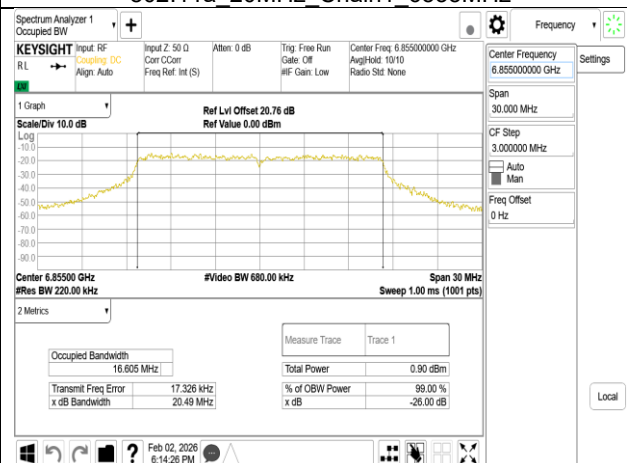
802.11a_20MHz_Chain1_6515MHz



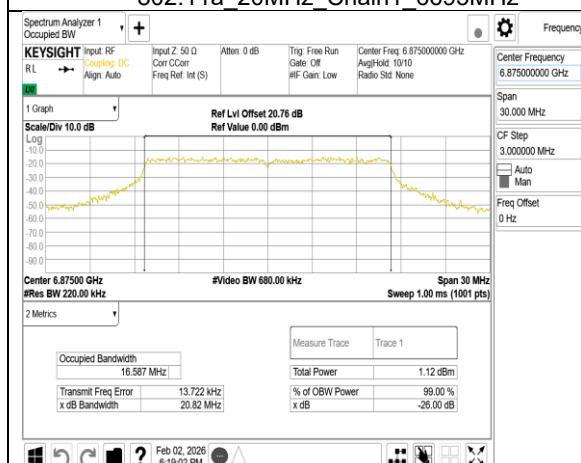
802.11a_20MHz_Chain1_6535MHz



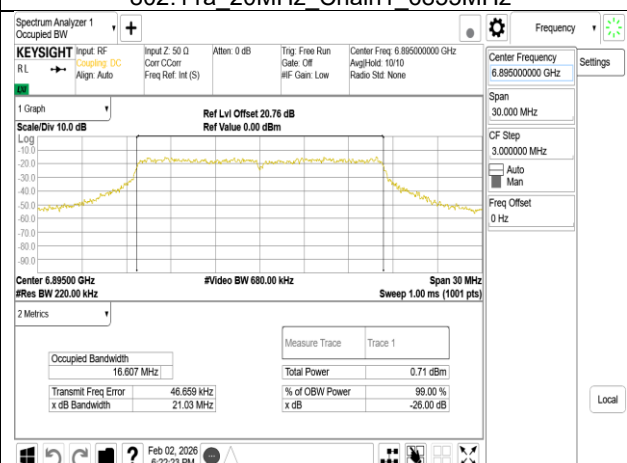
802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6855MHz



802.11a_20MHz_Chain1_6875MHz

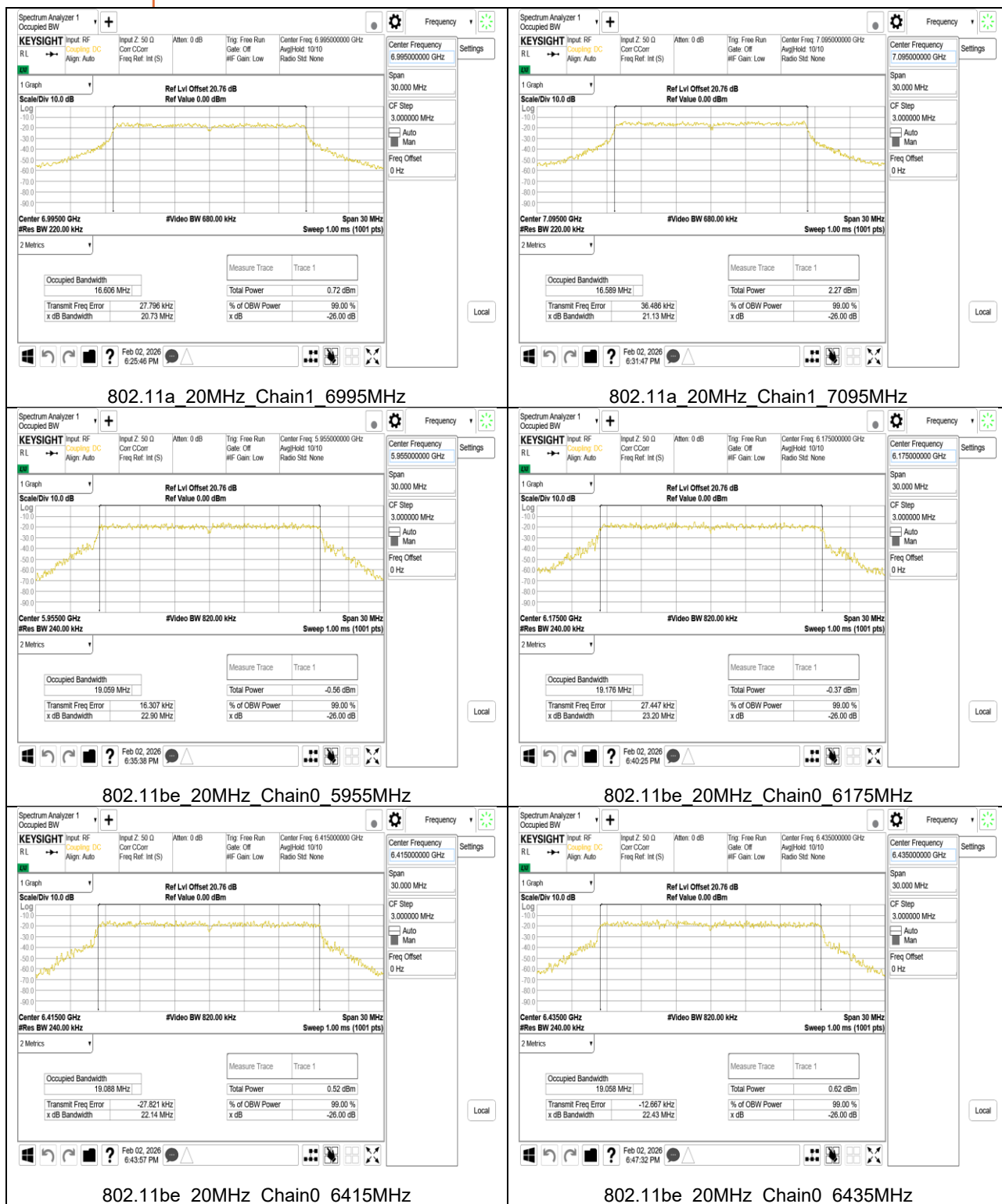


802.11a_20MHz_Chain1_6895MHz

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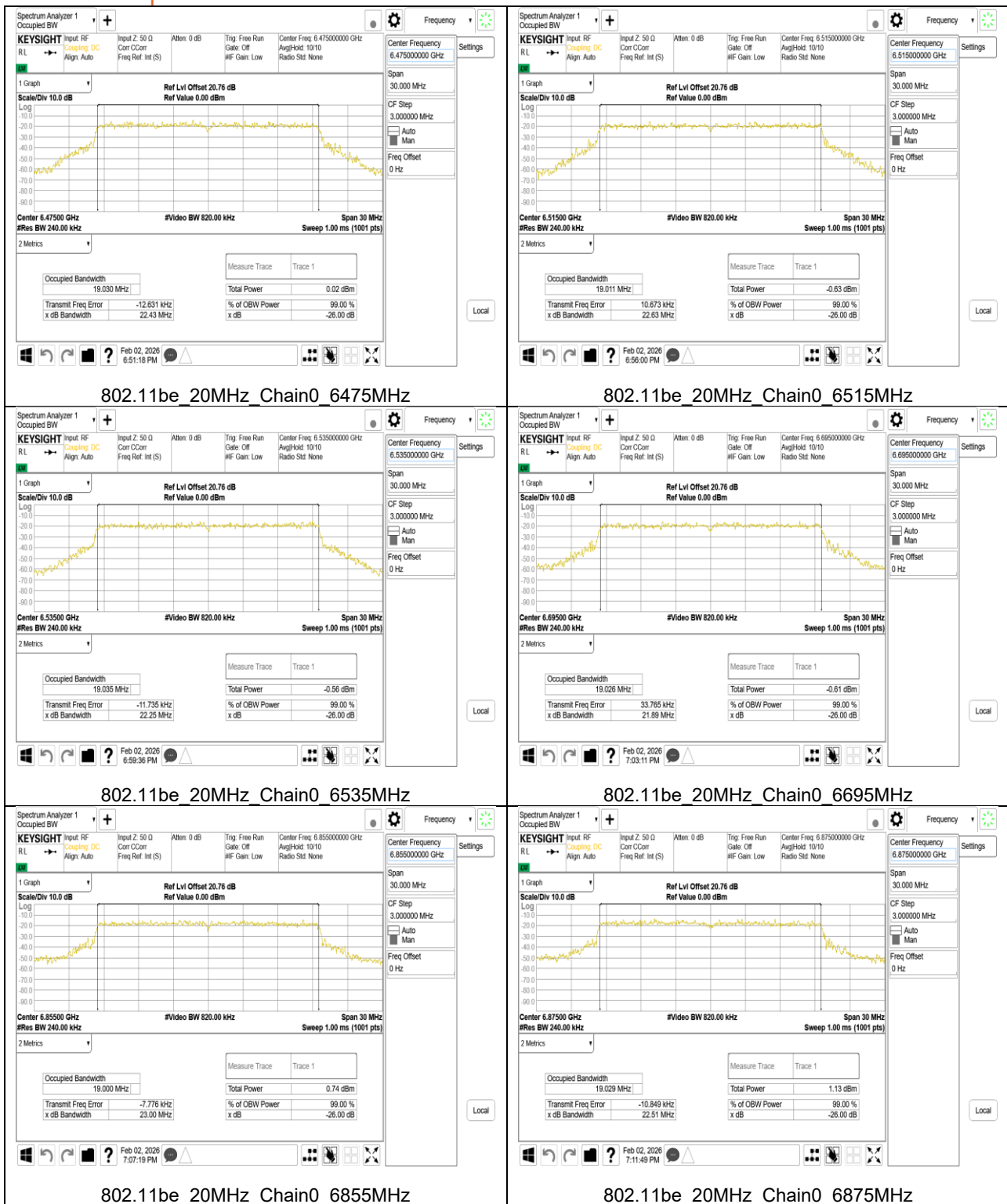
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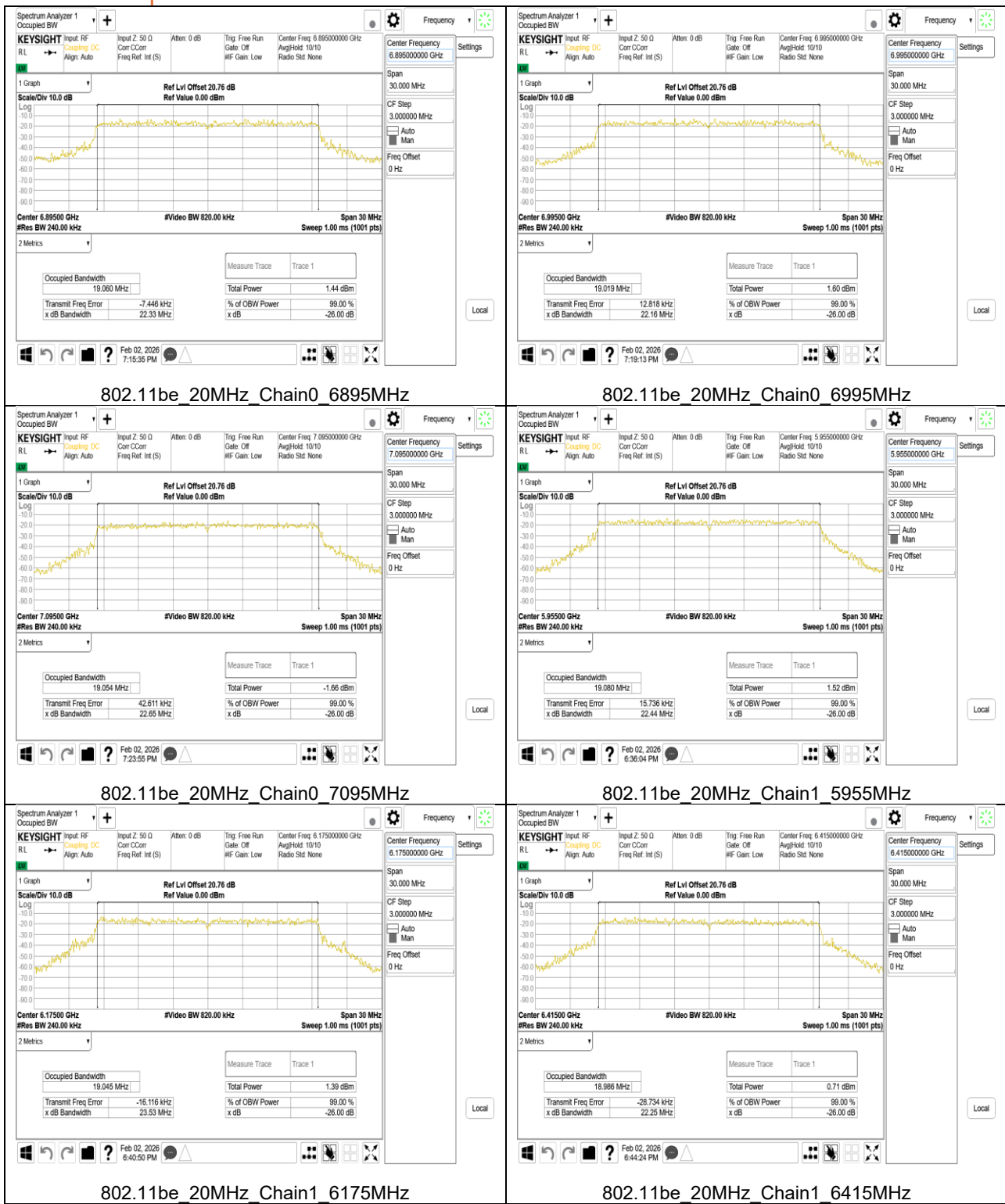
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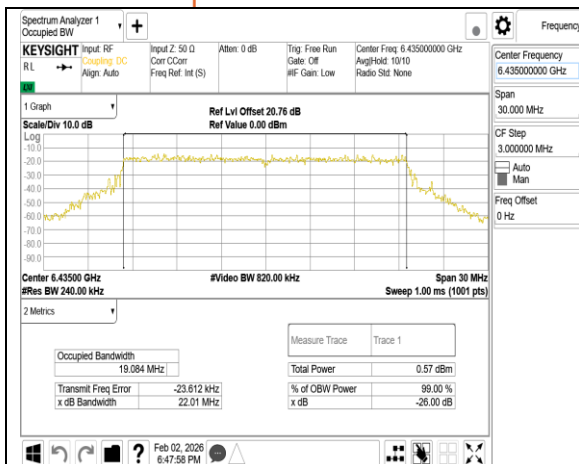
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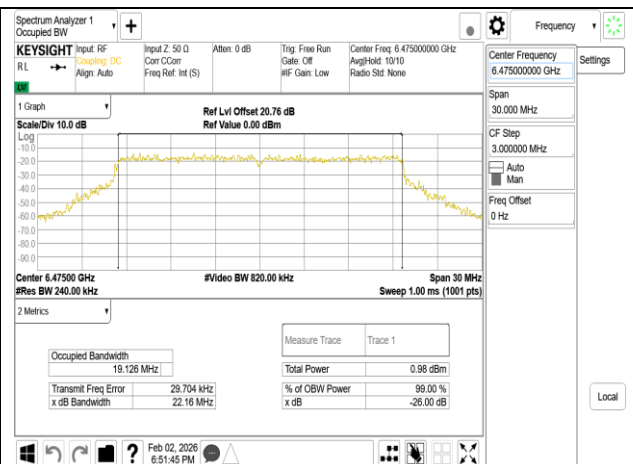
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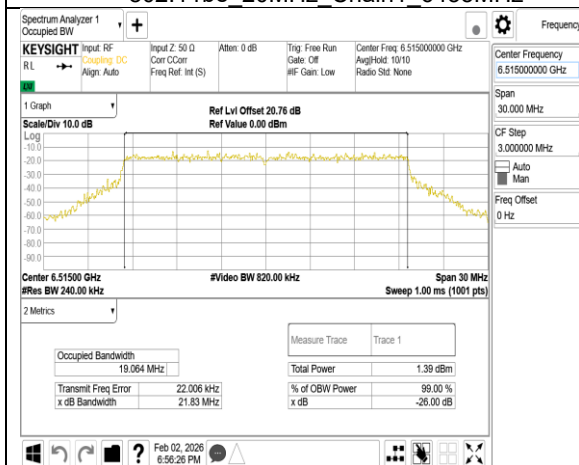
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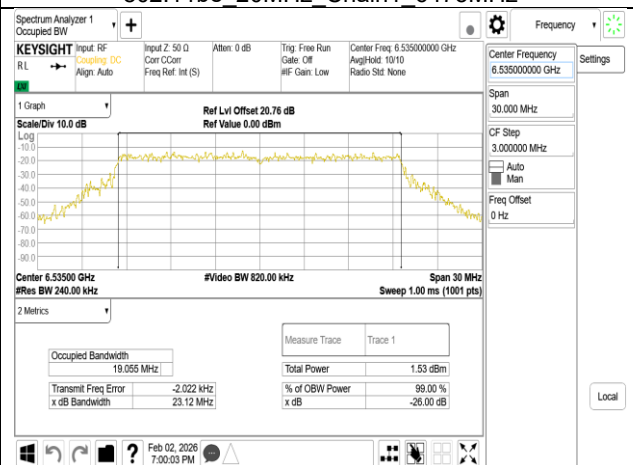
802.11be_20MHz_Chain1_6435MHz



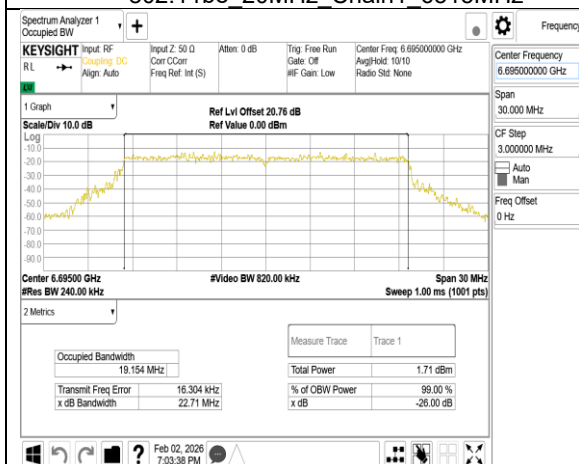
802.11be_20MHz_Chain1_6475MHz



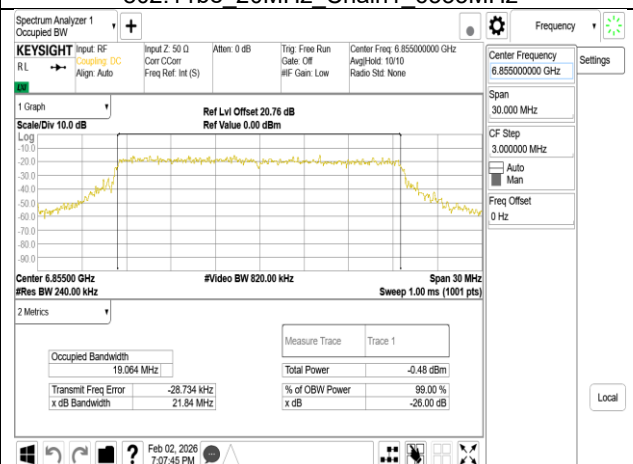
802.11be_20MHz_Chain1_6515MHz



802.11be_20MHz_Chain1_6535MHz



802.11be_20MHz_Chain1_6695MHz

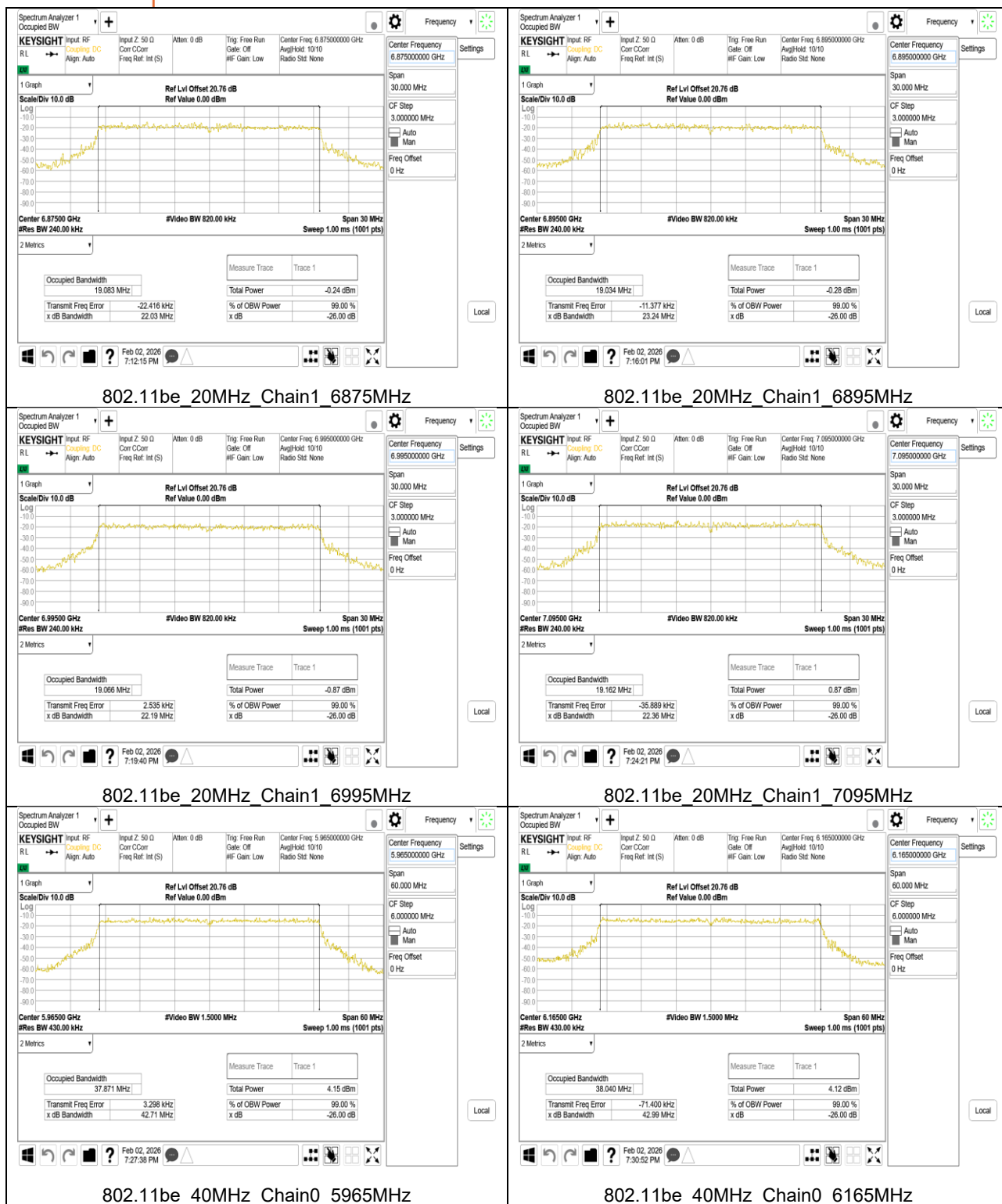


802.11be_20MHz_Chain1_6855MHz

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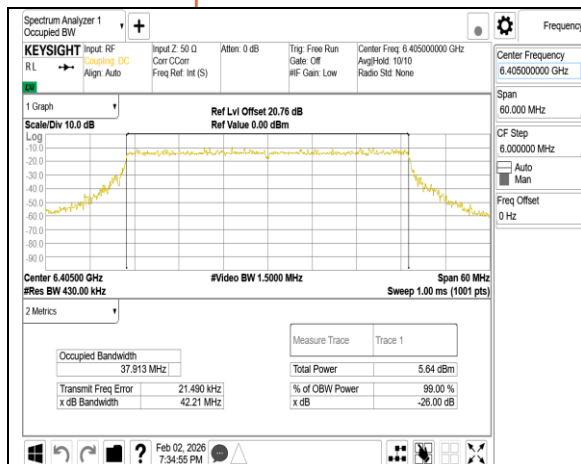
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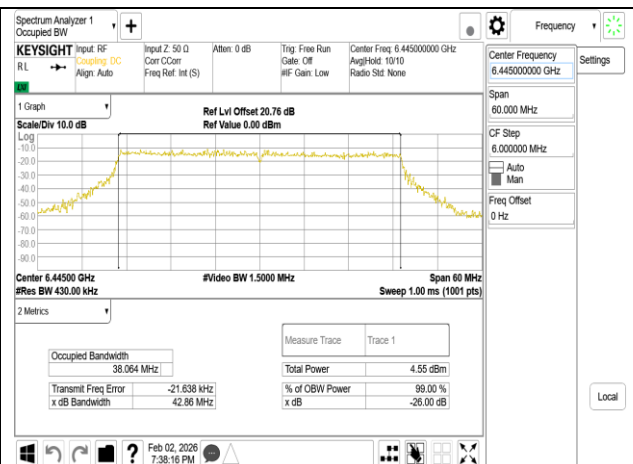
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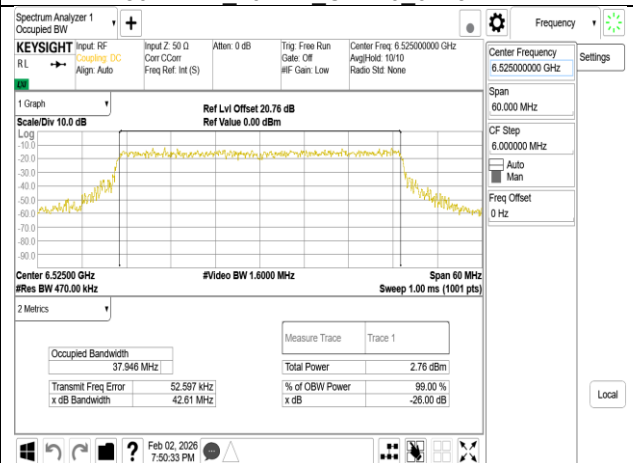
802.11be 40MHz Chain0 6405MHz



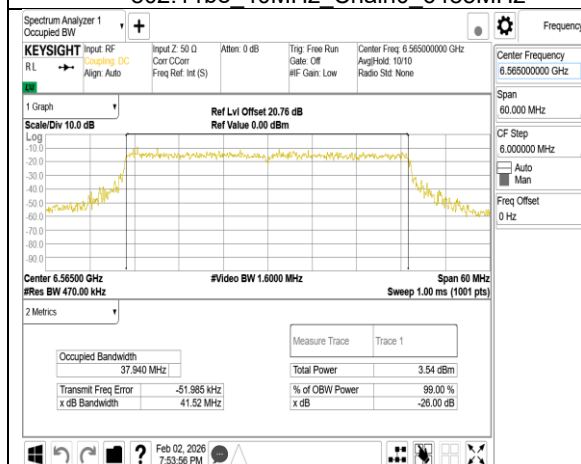
802.11be 40MHz Chain0 6445MHz



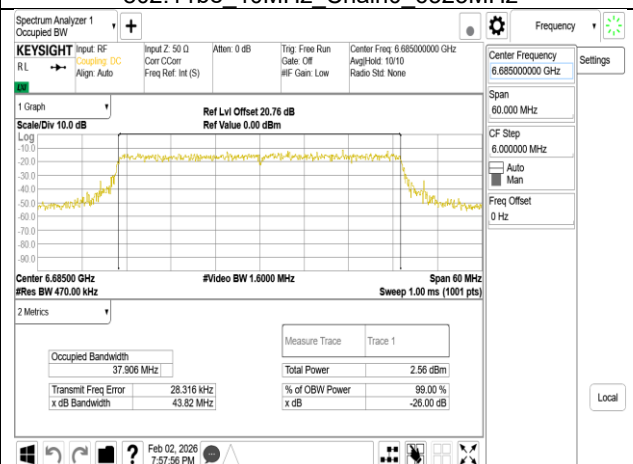
802.11be 40MHz Chain0 6485MHz



802.11be 40MHz Chain0 6525MHz



802.11be 40MHz Chain0 6565MHz



802.11be 40MHz Chain0 6685MHz

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