

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description: WLAN module

Applicant: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA

Manufacturer: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA

Brand Name: HP

ISED HVIN: HSC-I014RWL

ISED PMN: HSC-I014RWL

Report Number: TERF2604001454E2

FCC ID: B94-HSCI014RWL

Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2604001457E2, 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 TERF2604001457E2, for more details please refer to section 2 in this report.

Issue Date: September 2, 2026

Approved By**Alex Hsieh****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.

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
TERF2604001454E2	00	Original	August 31, 2026	Candice Li	
TERF2604001454E2	01	Modify CBP data	September 2, 2026	Candice Li	*

Note:

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

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7.2	Maximum Output Power	90
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7.4	In-Band Emission	223
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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	WLAN module
Brand Name	HP
ISED HVIN	HSC-I014RWL
Firmware Version	N/A
Power Supply	4 Vdc
Test Software (Name/Version)	Qualcomm Radio Control Toolkit/V4.0.192.1

1.2 RF Specification

Modulation type	802.11a	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ax	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
	802.11be	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Transition Rate	802.11a	6 - 54 Mbps
	802.11ax_HE20	up to 286.8 Mbps
	802.11ax_HE40	up to 573.5 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	Supplier	Main/Aux	Model No.	Freq (MHz) / Peak Gain (dBi)
PIFA	Vendor 1	Main	6036B0396101 (81EAB615.GBC)	5925~6425: 0.34 6425~6525: -0.3 6525~6875: 1.18 6875~7125: 0.6
		Aux	6036B0396201 (81EAB615.GBB)	5925~6425: 0.57 6425~6525: -0.06 6525~6875: -0.65 6875~7125: -0.52
PIFA	Vendor 2	Main	WA-P-LE-02-460	5925~6425: 2.88 6425~6525: 2.45 6525~6875: 1.57 6875~7125: 1.13
		Aux	WA-P-LE-02-459	5925~6425: 2.15 6425~6525: 2.55 6525~6875: 2.1 6875~7125: 1.9
PIFA	Vendor 1	Main	6036B0395901 (81EAB615.GBE)	5925~6425: 2.51 6425~6525: 2.34 6525~6875: 2.39 6875~7125: 2.47
		Aux	6036B0396001 (81EAB615.GBD)	5925~6425: 2.83 6425~6525: 2.11 6525~6875: 2.03 6875~7125: 2.26
PIFA	Vendor 2	Main	WA-P-LE-02-462	5925~6425: 2.48 6425~6525: 2.19 6525~6875: 2.07 6875~7125: 1.38
		Aux	WA-P-LE-02-461	5925~6425: 2.78 6425~6525: 2.46 6525~6875: 2.54 6875~7125: 1.55
PIFA	Vendor 1	Main	6036B0395701 (81EAB615.GBG)	5925~6425: 1.64 6425~6525: 1.16 6525~6875: 1.52 6875~7125: 1.05
		Aux	6036B0395801 (81EAB615.GBF)	5925~6425: 1.54 6425~6525: 2.02 6525~6875: 1.47 6875~7125: 1.29

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PIFA	Vendor 2	Main	WA-P-LE-02-464	5925~6425: 2.69 6425~6525: 2.42 6525~6875: 2.72 6875~7125: 1.48
		Aux	WA-P-LE-02-463	5925~6425: 1.23 6425~6525: 1.76 6525~6875: 2.78 6875~7125: 2.79

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 in accordance with Section F.2.f of FCC KDB 662911 D01. For CDD mode, uncorrelated gain is used to calculate the EIRP output power, while correlated gain is applied for the EIRP PSD calculation.

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1.4 Rated Power

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)
802.11a 802.11ax_HE20 802.11be_EHT20	5955~6415	24	EIRP	9.92 dBm
	6435~6515	5	EIRP	11.41 dBm
	6535~6875	19	EIRP	11.72 dBm
	6875~7115	12	EIRP	12.91 dBm
802.11ax_HE40 802.11be_EHT40	5965~6405	12	EIRP	10.96 dBm
	6445~6525	3	EIRP	10.91 dBm
	6525~6845	8	EIRP	11.65 dBm
	6885~7085	6	EIRP	11.68 dBm
802.11ax_HE80 802.11be_EHT80	5985~6385	6	EIRP	15.95 dBm
	6465	1	EIRP	14.45 dBm
	6545~6865	5	EIRP	15.05 dBm
	6945~7025	2	EIRP	14.84 dBm
802.11ax_HE160 802.11be_EHT160	6025~6345	3	EIRP	17.01 dBm
	6505	1	EIRP	19.08 dBm
	6665~6825	2	EIRP	17.10 dBm
	6985	1	EIRP	17.72 dBm
802.11be_EHT320	6105~6425	3	EIRP	19.27 dBm
	6585~6745	2	EIRP	22.75 dBm
	6905	1	EIRP	19.36 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	233	7115 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 modes below.

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

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

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (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			
	6895~7115	189 to 233	189, 209, 233			

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CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1, 45, 93	OFDMA	MCS0	26/0, 26/8 52/37, 52/40 106/53, 106/54 242,	2TX
	6435~6515	97 to 113	97, 105, 113				
	6535~6875	117 to 185	117, 149, 181, 185				
	6895~7115	189 to 233	189, 209, 233				
802.11ax_HE40	5965~6405	3 to 91	3, 43, 91	OFDMA	MCS0	242/61, 242/62 484,	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	MCS0	484/65, 484/66 996,	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	MCS0	996/67, 996/S67 996*2,	2TX
	6505	111	111				
	6665~6825	143 to 175	143, 175				
	6985	207	207				
802.11ax_HE20	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				
	6895~7115	189 to 233	189, 209, 233				
802.11ax_HE40	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				
802.11ax_HE80	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				
802.11ax_HE160	6025~6345	15 to 79	15, 47, 79	OFDM	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	DATA RATE (Mbps)	RU CONFIGURATION	ANTENNA PORT
802.11be_EHT20	5955~6415	1 to 93	1, 45, 93	OFDMA	MCS0	26/0, 26/8 52+26 MRU1, 52+26 MRU3 52/37, 52/40 106+26 MRU1, 106+26 MRU2 106/53, 106/54 242,	2TX
	6435~6515	97 to 113	97, 105, 113				
	6535~6875	117 to 185	117, 149, 181, 185				
	6895~7115	189 to 233	189, 209, 233				
802.11be_EHT40	5965~6405	3 to 91	3, 43, 91	OFDMA	MCS0	242/61, 242/62 484,	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	MCS0	484/65, 484/66 484+242 MRU1, 484+242 MRU2 484+242 MRU3, 484+242 MRU4 996,	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	MCS0	996/67, 996/567 996+484 MRU1, 996+484 MRU2 996+484 MRU3, 996+484 MRU4 996+484+242 MRU1, 996+484+242 MRU2 996+484+242 MRU4, 996+484+242 MRU5 996+484+242 MRU7, 996+484+242 MRU8	2TX
	6505	111	111				
	6665~6825	143 to 175	143, 175				
	6985	207	207				
802.11be_EHT320	6105~6425	31 to 95	31, 63, 95	OFDMA	MCS0	3*996 MRU1, 3*996 MRU2 3*996 MRU3, 3*996 MRU4 3*996+484 MRU1, 2*996+484 MRU2 3*996+484 MRU2, 3*996+484 MRU3 3*996+484 MRU4, 2*996+484 MRU6 2*996+484 MRU7, 3*996+484 MRU7 3*996+484 MRU8, 2*996+484 MRU11 996*4,	2TX
	6585~6745	127 to 159	127, 159				
	6905	191	191				
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				
	6895~7115	189 to 233	189, 209, 233				
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	6105~6425	31 to 95	31, 63, 95	OFDM	MCS0		2TX
	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			
	6535~6875	117 to 185	149			
	6895~7115	189 to 233	209			

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			
	6535~6875	117 to 185	117,149,181,185			
	6895~7115	189 to 233	189,209,233			

TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
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				
	6895~7115	189 to 233	189,209,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU 242/61,242/62	MCS0	2TX
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,147,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU 484/65,484/66	MCS0	2TX
	6465	103	103				
	6545~6865	119 to 183	119,135,151,167,183				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU 996/67,996/S67	MCS0	2TX
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU 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				
	6895~7115	189 to 233	189,209,233				
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 996/67,996/S67 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 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				

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	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)	Test Demonstration of Proper Power Adjustment based on Associated AP	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 TERF2604001457E2.

2.1 Test Methodology of Applied Standards

1. FCC Part 15, Subpart E §15.407
2. ANSI C63.10:2020
3. FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
4. FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
5. FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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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 / FAC 1	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 FAC A	TW0028 / 200037	TW3702 / 4620E

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	P84844-001	22.6~23.4°C / 74~68%	2026/05/05 ~ 2026/06/22
CBP	Conducted B	Ari	be2f8b82	21~26°C / 58~69%	2026/06/10 ~ 2026/09/02
APC	Conducted B	Ari	be2f8b82	21~27°C / 52~67%	2026/05/21 ~ 2026/07/24
Radiated	SAC C	Alex Li	P84844-001	23.5°C / 64%	2026/06/18 ~ 2026/07/07
Conduction	Conduction C	Alex Li	P84844-001	21.3°C / 62%	2026/07/04

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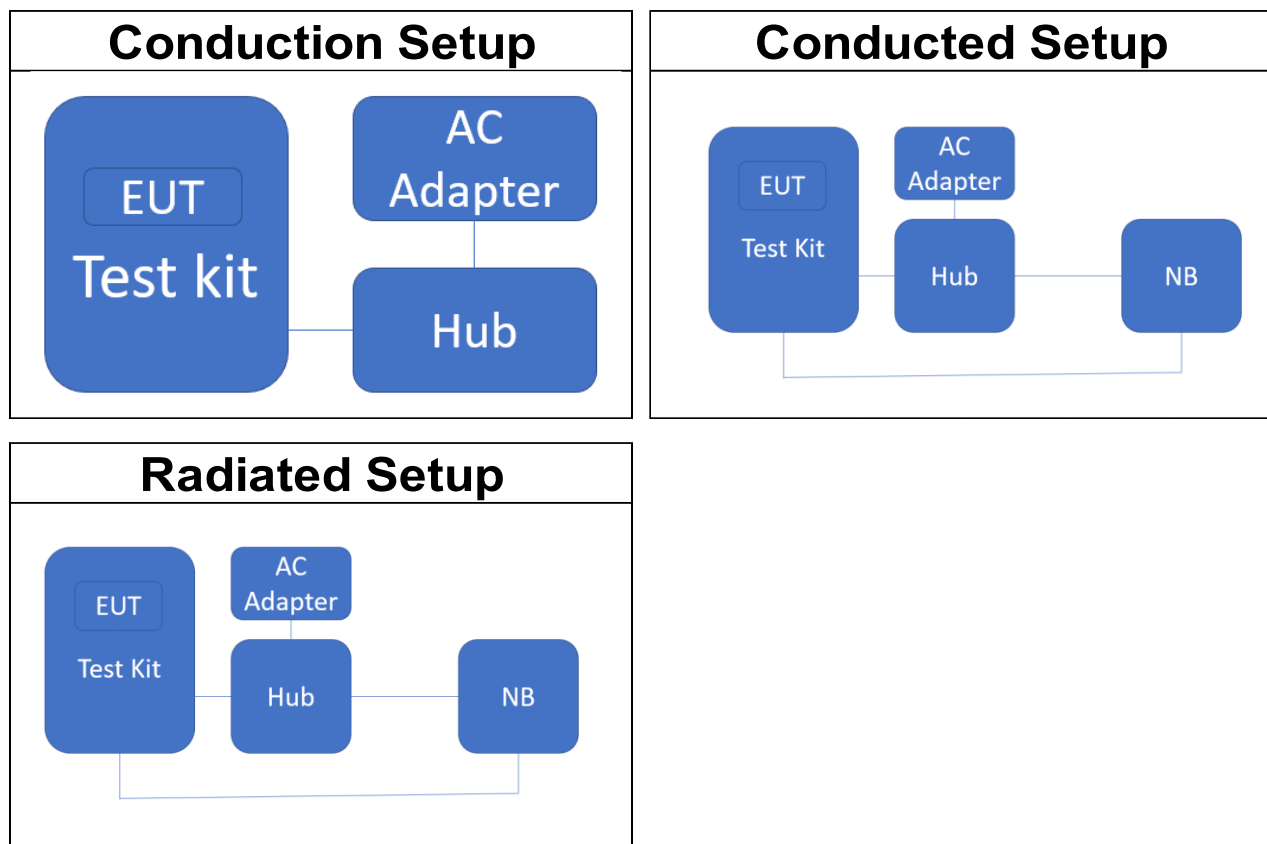
3 CONTROL UNIT(S) AND PERIPHERAL(S)

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 C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
AC Adapter	Chicony Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	N/A	N/A

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)
AC Adapter	Delta Electronics, Inc.	TPN-DA25	N/A	N/A	N/A
Test kit	HP	HSC-I014RWL	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Notebook	ASUS	ME407KA	N/A	N/A	N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	L440	P0000367	N/A	N/A
USB Cable	SHANG LIAN TECHNOLOGY CO.,LTD	VPC-70	N/A	N/A	N/A
AC Adapter	Chicony Power Technology Co., Ltd.	TPN-CA25	N/A	N/A	N/A
Hub	HP	TPC-I049-D	N/A	N/A	N/A
Test Kit	HP	HSC-I014RWL	N/A	N/A	N/A

3.3.4 Contention Based Protocol Setup

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	BQ16 Pro	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 Power Adjustment Based On Associated AP Setup

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T490	P0002523	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 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	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/29/2026	06/28/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027

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	RF05	11/13/2025	11/12/2026
DC Block	PASTERNAK	PE8210	RF34	11/13/2025	11/12/2026
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	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

4.3 Contention Based Protocol Measurement

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
Frequency Extender	Keysight	N5182BX07	MY59360223	03/04/2026	03/03/2027
Power Divider	Titan	T0510E4W118Q	RF65	11/13/2025	11/12/2026
Signal Generator	KEYSIGHT	N5182B	MY59100873	03/04/2026	03/03/2027
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/09/2026	01/08/2027
Splitter	Marvelous	MVE8576	RF58	11/13/2025	11/12/2026
Splitter	Marvelous	MVE8576	RF59	11/13/2025	11/12/2026
Splitter	RF-LAMBDA	RFLT2W1G18G	RF51	11/13/2025	11/12/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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4.4 Power Adjustment Based On Associated AP Measurement

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Splitter	Marvelous Microwave	A308448	RF47	11/13/2025	11/12/2026
Wireless Connectivity Test Set	Anritsu	MT8862A	6261782393	11/23/2025	11/22/2026

4.5 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2026	03/01/2027
5925-6425 Notch Filter	Warison	WFIL-N5925-6425F	RF191	11/13/2025	11/12/2026
6425-6525 Notch Filter	Warison	WFIL-N6425-6525F	RF192	11/13/2025	11/12/2026
6525-6875 Notch Filter	Warison	WFIL-N6525-6875F	RF193	11/13/2025	11/12/2026
6875-7125 Notch Filter	Warison	WFIL-N6875-7125F	RF194	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Attenuator	Woken	WATT-218FS-10	RF17	11/13/2025	11/12/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2310002+15	11/13/2025	11/12/2026
Coaxial Cable	SUCCOFLEX	SUCCOFLEX 102	MY2153/2+MY520415/2	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	04/29/2026	04/28/2027
Horn Antenna	Schwarzbeck	BBHA9170	184	12/31/2025	12/30/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980789	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027

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
	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
V	Dual Client	6CD	Compliance both indoor client and standard client limit

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.

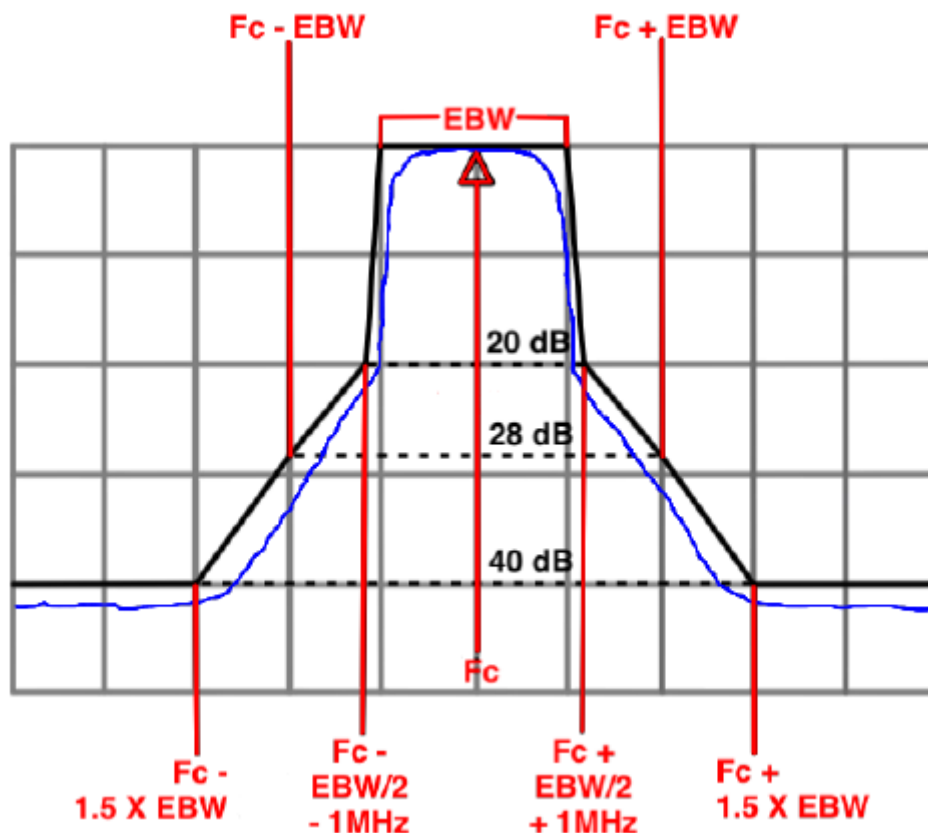
5.3 Maximum Power Spectral Density

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

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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.

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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 more than 20 dB.

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	2400/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)	Peak: 88.2 (dBμV/m)
AV: -27 (dBm/MHz)	AV: 68.2 (dBμV/m)
$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log (\text{d[m]}) - 104.7$	
$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log (\text{d[m]}) + 104.7$	

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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 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 AC Power Line Conducted Emission

Frequency range MHz	Limits (dBμV)	
	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

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5.9 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.

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6.2 Maximum Output Power

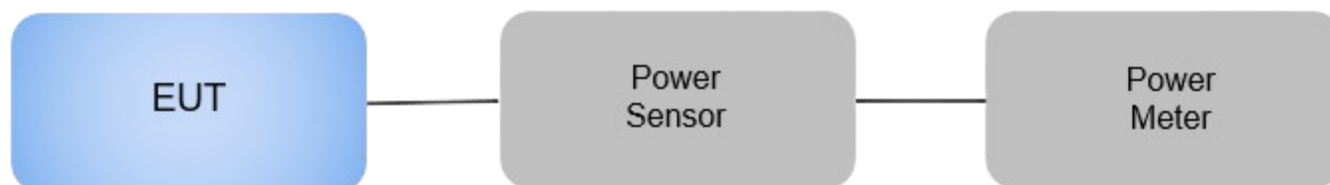
6.2.1 Duty Cycle



Set the spectrum analyzer as

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

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

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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
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

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

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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

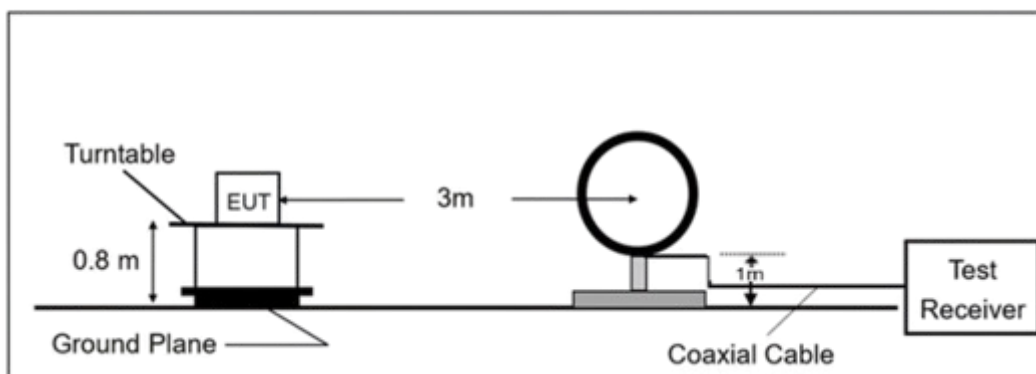
6.5.1 Radiated Emission Test Sites

For Measurements From 9 kHz To 30 MHz

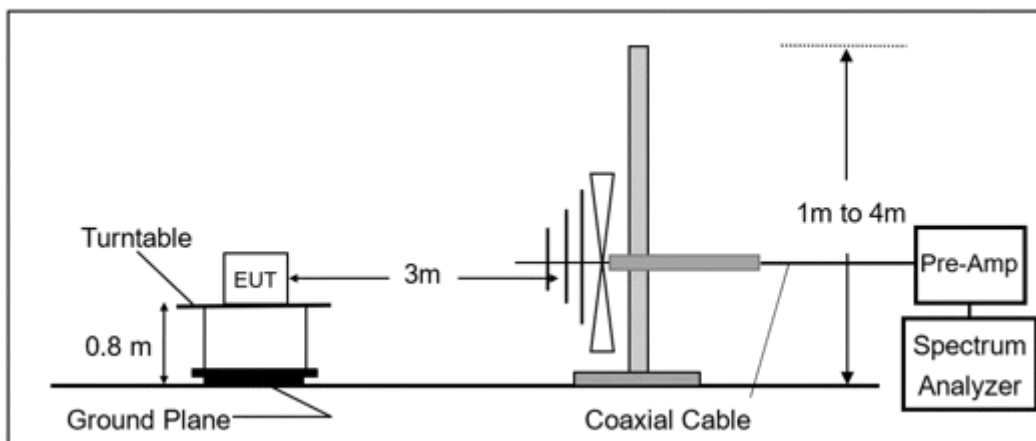
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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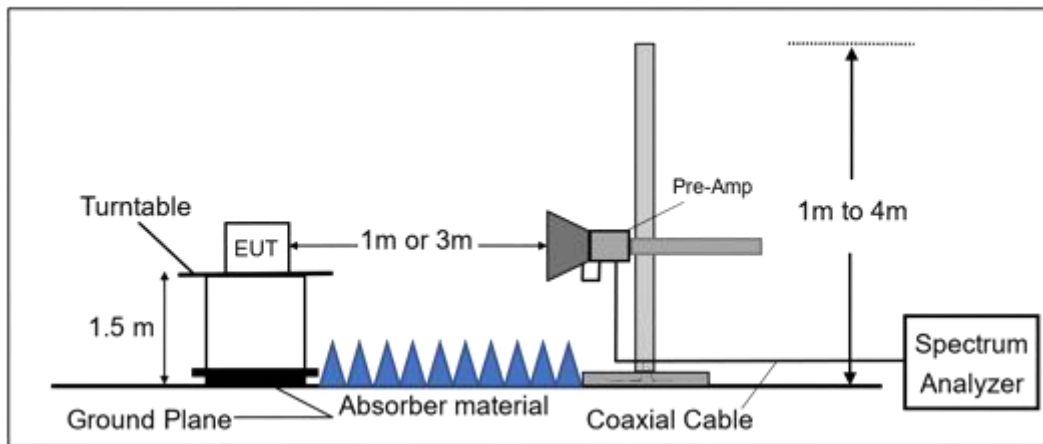
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Radiated Emission Test Set-Up, Frequency Above 1GHz.



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.

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7. For measurements above 1GHz, set the spectrum analyzer as
 - ☒ For Peak measurement:
 - RBW=1 MHz
 - 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.

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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:

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 $20 \times \log_{10} (\mu\text{V/m})$.

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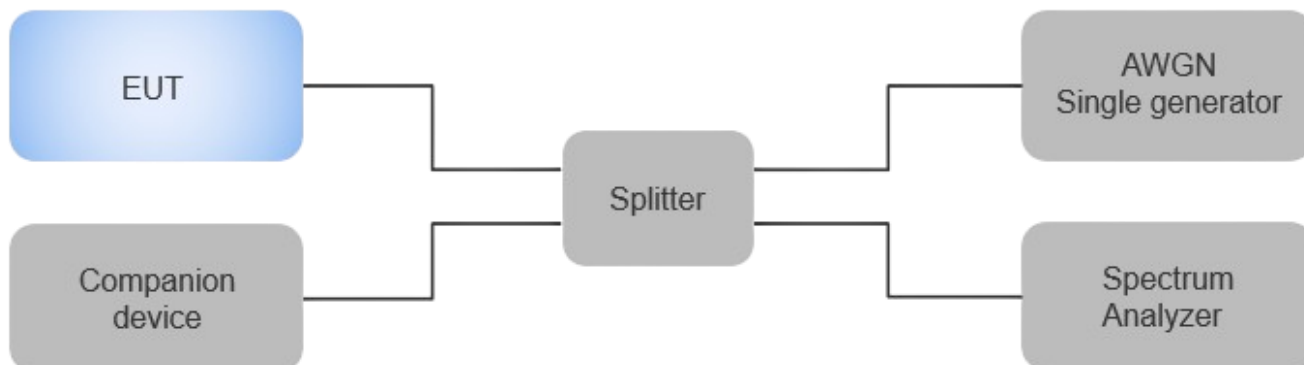
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6.6 Contention Based Protocol



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.
For power of AWGN signal, set the spectrum analyzer as
Span > 99% OBW
RBW = 1 MHz
VBW ≥ 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.
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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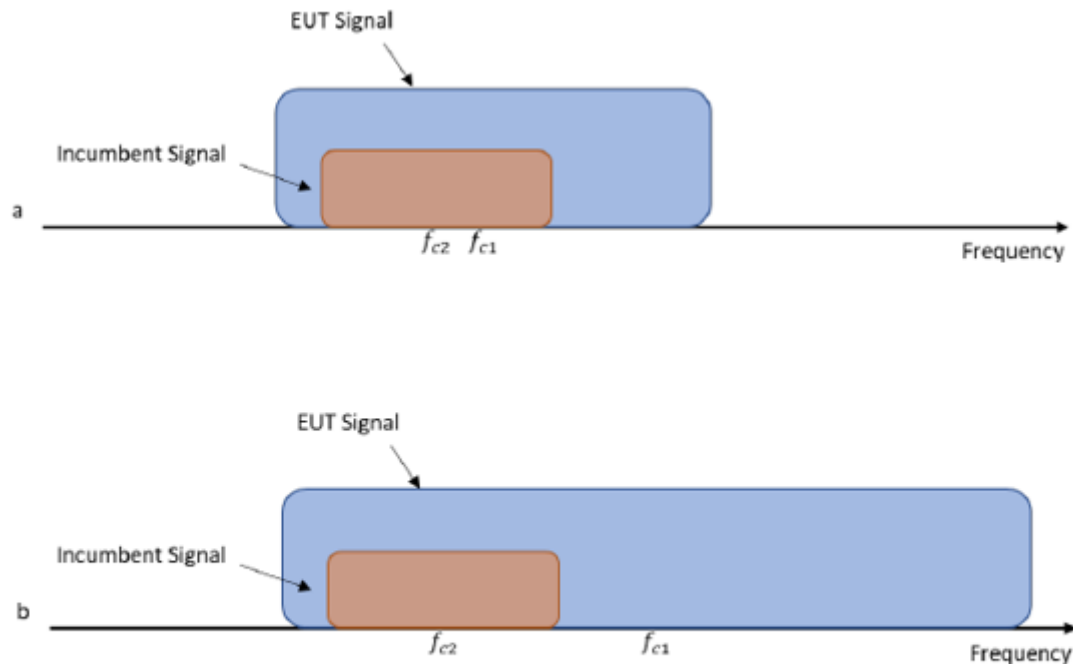


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within the incumbent's bandwidth, or b) outside of it

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)

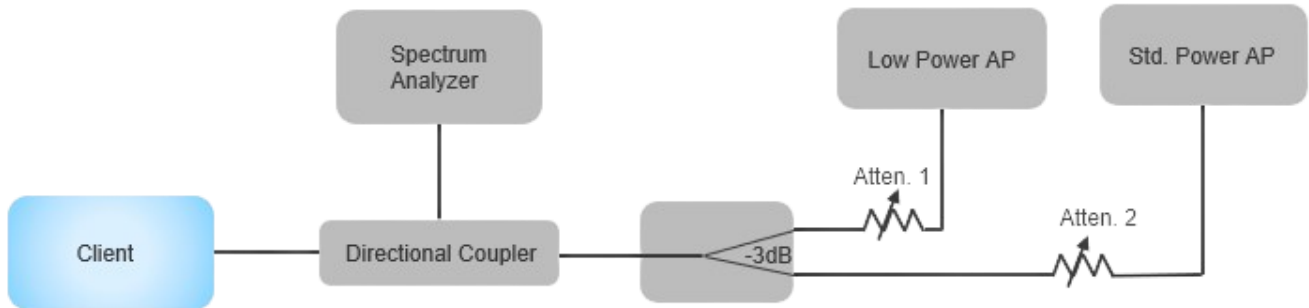
f_{c1} : The center frequency of EUT transmission

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

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6.7 Power Adjustment Based On Associated AP



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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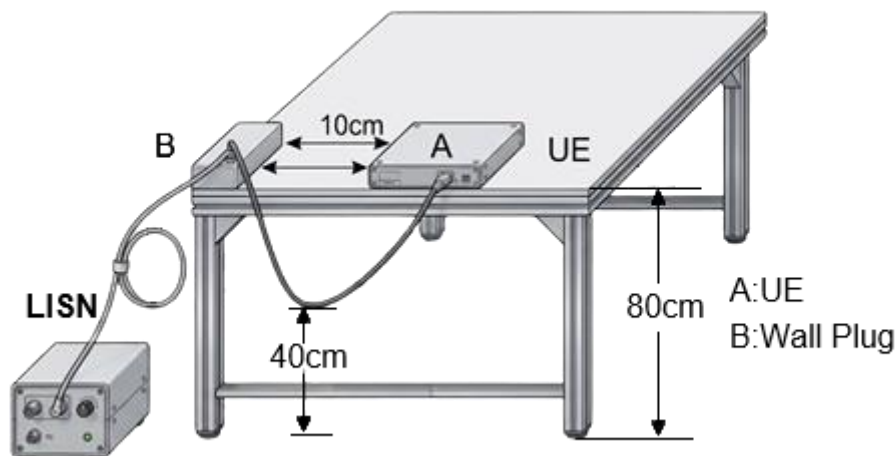
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6.8 AC Power Line Conducted Emission



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.

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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	16.697	21.59
45	6175	16.600	21.57
93	6415	16.600	20.96
97	6435	16.587	21.97
105	6475	16.542	21.59
113	6515	16.609	21.01
117	6535	16.636	20.90
149	6695	16.604	20.88
181	6855	16.576	21.99
185	6875	8.268	10.59
189	6895	16.594	21.73
209	6995	16.557	21.88
233	7115	16.590	21.82

802.11a_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	16.695	21.51
45	6175	16.502	20.91
93	6415	16.561	21.34
97	6435	16.588	21.27
105	6475	16.591	21.29
113	6515	16.646	20.93
117	6535	16.612	21.73
149	6695	16.603	21.40
181	6855	16.591	21.32
185	6875	8.292	10.65
189	6895	16.572	21.82
209	6995	16.568	21.12
233	7115	16.585	21.20

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802.11ax_HE20_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	18.913	21.83
45	6175	18.913	21.45
93	6415	18.878	20.60
97	6435	18.898	21.47
105	6475	18.876	22.35
113	6515	18.879	22.14
117	6535	18.894	21.17
149	6695	18.844	21.72
181	6855	18.933	22.09
185	6875	9.429	10.88
189	6895	18.927	22.46
209	6995	18.890	21.70
233	7115	18.924	21.70

802.11ax_HE20_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
1	5955	18.987	21.68
45	6175	18.763	20.87
93	6415	18.875	21.91
97	6435	18.945	21.75
105	6475	18.917	21.95
113	6515	18.969	21.49
117	6535	18.968	21.63
149	6695	18.956	22.34
181	6855	18.915	21.91
185	6875	9.450	10.97
189	6895	18.847	21.60
209	6995	18.880	21.50
233	7115	18.952	21.68

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802.11ax_HE80_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	77.076	81.77
39	6145	76.865	84.14
87	6385	77.115	84.86
103	6465	77.227	84.16
119	6545	18.567	21.69
135	6625	77.010	83.72
151	6705	77.327	86.10
167	6785	77.112	86.99
183	6865	48.582	52.75
199	6945	77.145	82.72
215	7025	77.006	82.68

802.11ax_HE80_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
7	5985	76.489	84.86
39	6145	77.093	83.36
87	6385	77.320	86.14
103	6465	77.102	85.23
119	6545	18.442	21.35
135	6625	77.060	84.64
151	6705	76.943	83.26
167	6785	77.080	86.22
183	6865	48.562	51.69
199	6945	76.998	86.90
215	7025	76.963	84.60

802.11ax_HE160_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
207	6985	157.25	172.1

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802.11ax_HE160_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
207	6985	156.94	169.9

802.11ax_HE20_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	242	19.056	21.70
45	6175	242	19.086	22.03
93	6415	242	19.089	22.15
97	6435	242	18.999	21.97
105	6475	242	18.989	21.94
113	6515	242	19.097	21.54
117	6535	242	19.063	22.15
149	6695	242	19.056	21.80
181	6855	242	19.047	22.00
185	6875	242	9.519	11.13
189	6895	242	19.037	22.74
209	6995	242	19.056	21.72
233	7115	242	19.036	22.47

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802.11ax_HE20_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
1	5955	242	19.156	22.29
45	6175	242	18.924	21.78
93	6415	242	19.068	21.40
97	6435	242	19.064	21.20
105	6475	242	19.071	21.27
113	6515	242	19.090	21.86
117	6535	242	19.152	22.62
149	6695	242	19.035	21.46
181	6855	242	19.062	21.84
185	6875	242	9.540	10.95
189	6895	242	19.069	21.80
209	6995	242	19.046	22.27
233	7115	242	19.069	22.57

802.11ax_HE80_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	996	77.519	84.45
39	6145	996	77.575	88.08
87	6385	996	77.598	85.77
103	6465	996	77.741	87.27
119	6545	996	18.827	22.59
135	6625	996	77.626	86.82
151	6705	996	77.524	85.08
167	6785	996	77.537	88.20
183	6865	996	48.754	53.18
199	6945	996	77.771	84.34
215	7025	996	77.653	84.23

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802.11ax_HE80_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
7	5985	996	77.332	83.59
39	6145	996	77.683	83.93
87	6385	996	77.789	84.57
103	6465	996	77.742	84.73
119	6545	996	18.851	22.68
135	6625	996	77.491	85.90
151	6705	996	77.697	84.38
167	6785	996	77.825	84.67
183	6865	996	48.809	52.35
199	6945	996	77.690	84.18
215	7025	996	77.787	85.46

802.11ax_HE160_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
207	6985	996*2	156.94	173.6

802.11ax_HE160_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
207	6985	996*2	157.00	172.8

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802.11be_EHT40_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.694	42.06
43	6165	37.745	42.40
91	6405	37.763	42.46
99	6445	37.752	42.15
107	6485	37.819	42.29
115	6525	18.925	20.77
123	6565	37.778	41.42
147	6685	37.891	42.99
179	6845	37.800	42.43
187	6885	8.836	10.66
195	6925	37.705	41.39
211	7005	37.735	42.37
227	7085	37.755	41.71

802.11be_EHT40_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
3	5965	37.686	42.76
43	6165	37.832	41.42
91	6405	37.852	41.56
99	6445	37.772	42.20
107	6485	37.649	41.96
115	6525	18.862	20.76
123	6565	37.752	41.85
147	6685	37.745	42.33
179	6845	37.697	42.36
187	6885	8.920	11.06
195	6925	37.707	41.94
211	7005	37.824	42.59
227	7085	37.765	42.23

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802.11be_EHT160_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.93	171.3
47	6185	156.88	169.7
79	6345	157.14	171.1
111	6505	98.57	105.3
143	6665	157.36	171.2
175	6825	128.39	136.2

802.11be_EHT160_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
15	6025	156.19	170.6
47	6185	156.42	169.2
79	6345	157.24	172.7
111	6505	98.65	103.1
143	6665	156.73	171.8
175	6825	128.54	136.8

802.11be_EHT320_SU_Ch0

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	316.28	342.8
63	6265	314.76	340.5
95	6425	158.25	170.6
127	6585	98.00	112.2
159	6745	287.81	302.1
191	6905	127.54	140.8

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802.11be_EHT320_SU_Ch1

CH	Frequency (MHz)	99% BW (MHz)	26dB BW (MHz)
31	6105	315.89	334.9
63	6265	315.09	335.0
95	6425	158.23	172.4
127	6585	97.89	109.5
159	6745	287.55	300.1
191	6905	127.95	138.5

802.11be_EHT40_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	484	37.996	42.36
43	6165	484	38.072	42.30
91	6405	484	38.051	42.19
99	6445	484	38.005	43.06
107	6485	484	37.957	42.76
115	6525	484	19.011	20.77
123	6565	484	38.034	40.91
147	6685	484	38.112	42.32
179	6845	484	37.982	42.20
187	6885	484	8.996	11.07
195	6925	484	38.045	42.16
211	7005	484	38.053	43.71
227	7085	484	37.942	42.97

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802.11be_EHT40_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
3	5965	484	37.814	42.30
43	6165	484	38.129	42.75
91	6405	484	38.102	41.91
99	6445	484	38.037	43.23
107	6485	484	37.972	42.73
115	6525	484	18.969	21.68
123	6565	484	37.964	43.63
147	6685	484	37.956	42.41
179	6845	484	38.063	42.80
187	6885	484	9.017	11.39
195	6925	484	38.142	42.60
211	7005	484	38.093	43.01
227	7085	484	38.120	42.75

802.11be_EHT160_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	996*2	155.86	179.1
47	6185	996*2	156.29	170.7
79	6345	996*2	156.52	172.3
111	6505	996*2	98.07	105.0
143	6665	996*2	156.70	167.9
175	6825	996*2	128.20	133.1
207	6985	996*2	155.96	166.1

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802.11be_EHT160_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
15	6025	996*2	155.82	170.4
47	6185	996*2	156.28	167.3
79	6345	996*2	156.74	168.6
111	6505	996*2	98.42	104.3
143	6665	996*2	156.14	165.2
175	6825	996*2	128.55	135.6
207	6985	996*2	156.10	169.0

802.11be_EHT320_RU_Ch0

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	996*4	315.27	344.8
63	6265	996*4	314.70	341.6
95	6425	996*4	315.37	338.4
127	6585	996*4	315.35	342.1
159	6745	996*4	315.54	341.7
191	6905	996*4	315.33	336.9

802.11be_EHT320_RU_Ch1

CH	Frequency (MHz)	RU config.	99% BW (MHz)	26dB BW (MHz)
31	6105	996*4	314.19	335.8
63	6265	996*4	314.43	329.4
95	6425	996*4	315.68	339.2
127	6585	996*4	315.33	337.3
159	6745	996*4	315.10	339.3
191	6905	996*4	315.28	340.0

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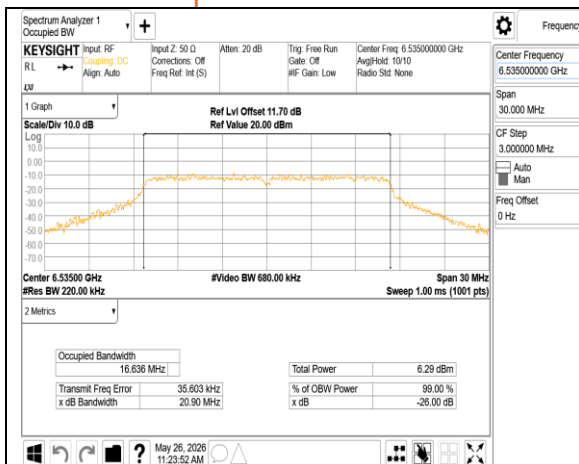
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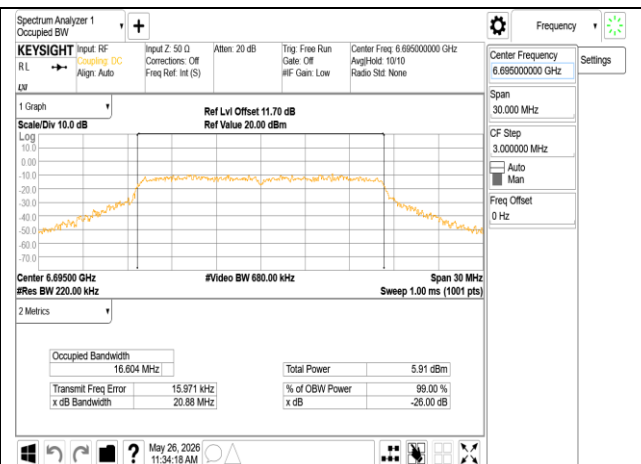
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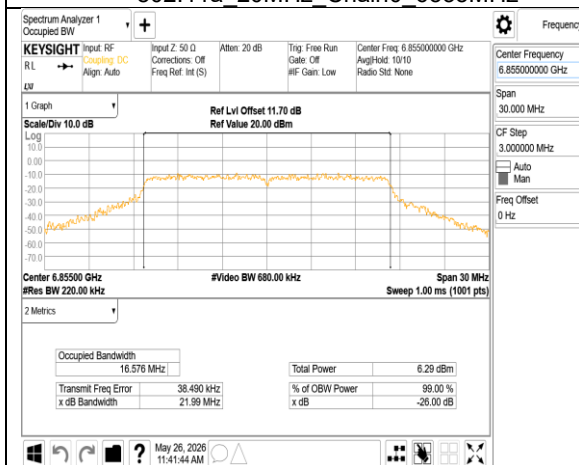
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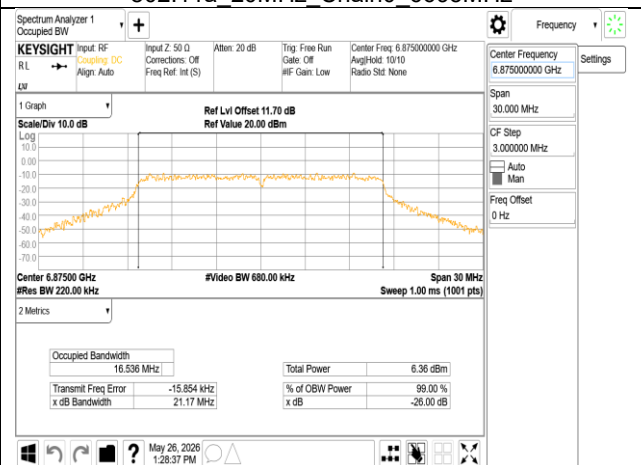
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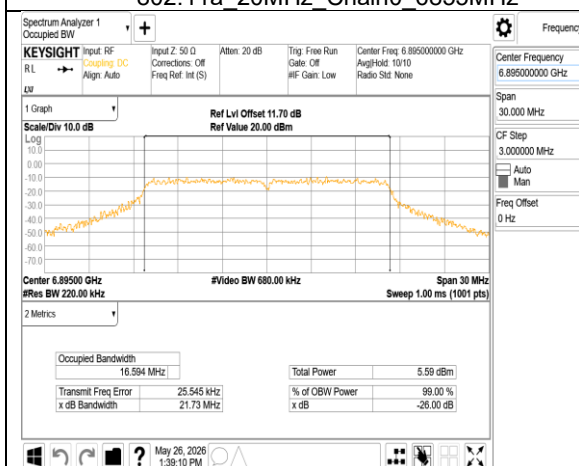
802.11a_20MHz_Chain0_6695MHz



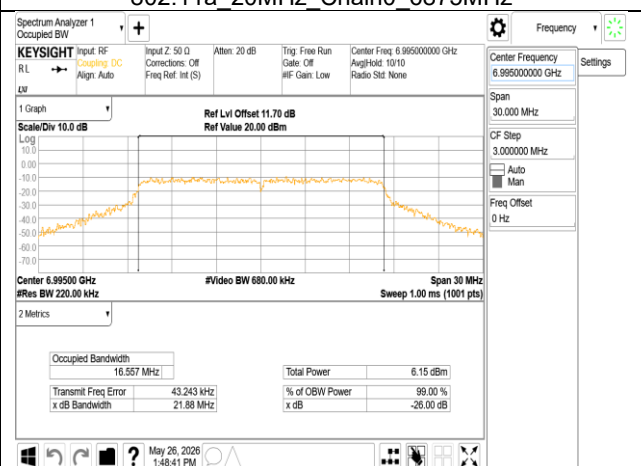
802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6875MHz



802.11a_20MHz_Chain0_6895MHz

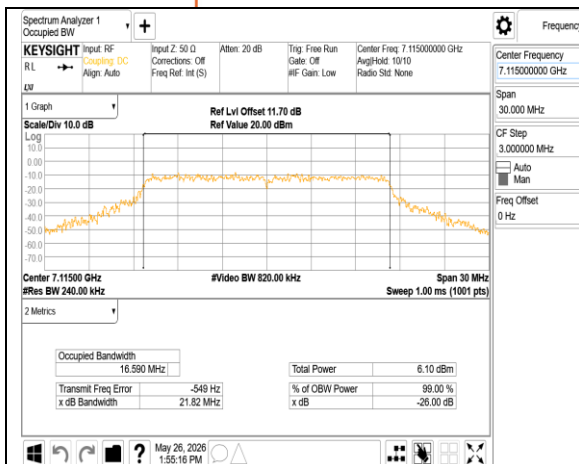


802.11a_20MHz_Chain0_6995MHz

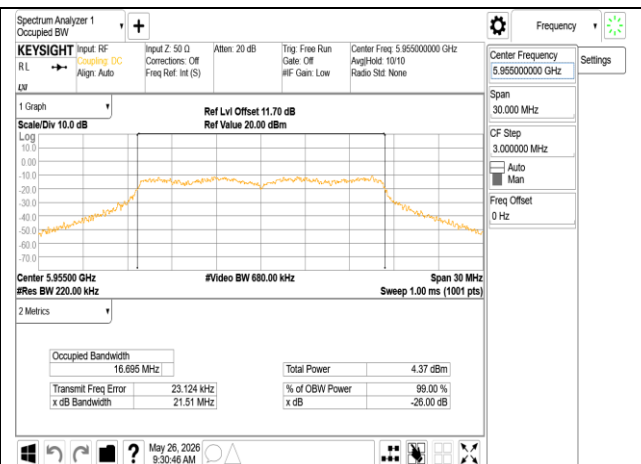
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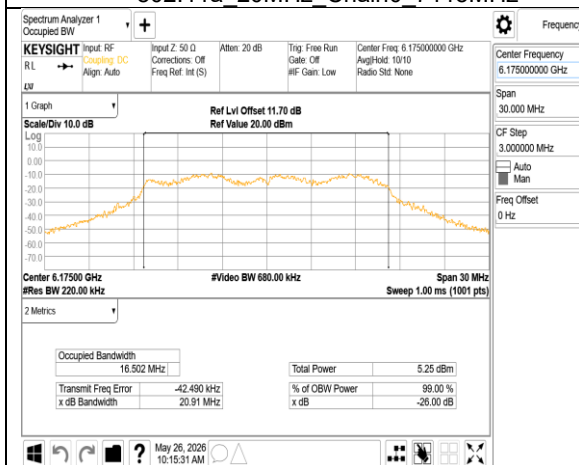
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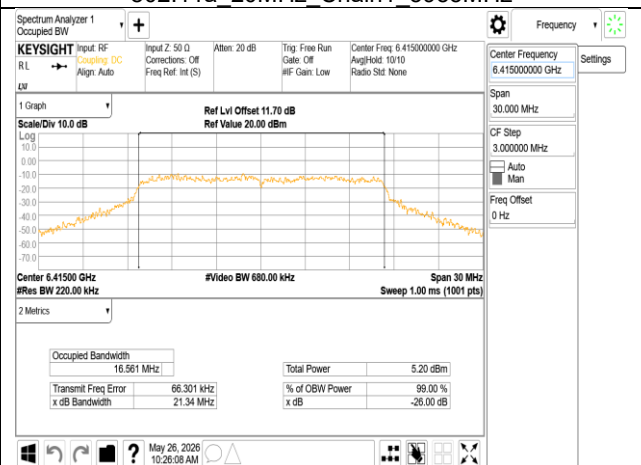
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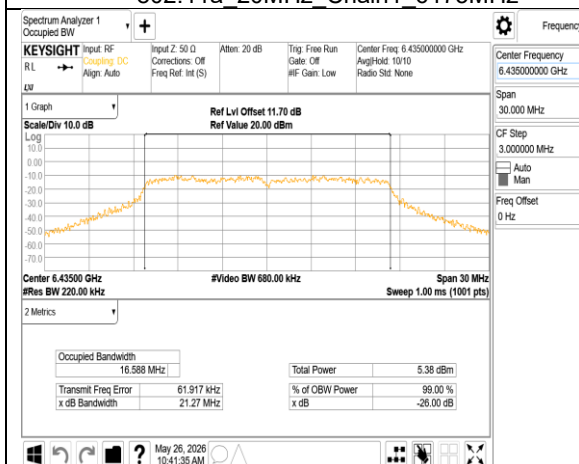
802.11a_20MHz_Chain1_5955MHz



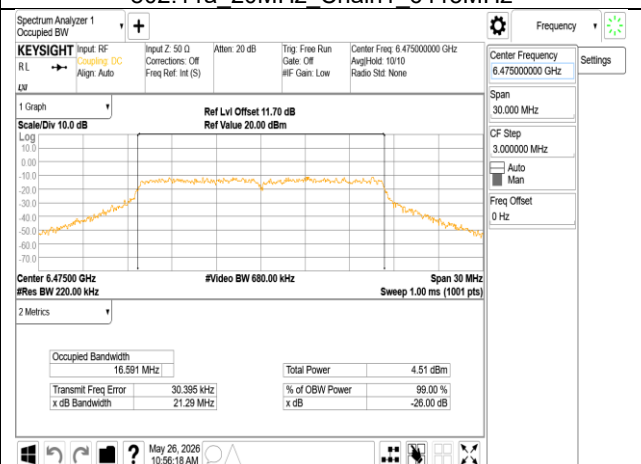
802.11a_20MHz_Chain1_6175MHz



802.11a_20MHz_Chain1_6415MHz



802.11a_20MHz_Chain1_6435MHz



802.11a_20MHz_Chain1_6475MHz

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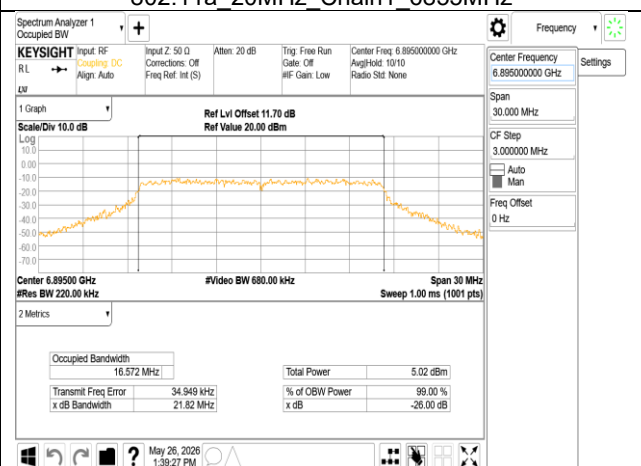
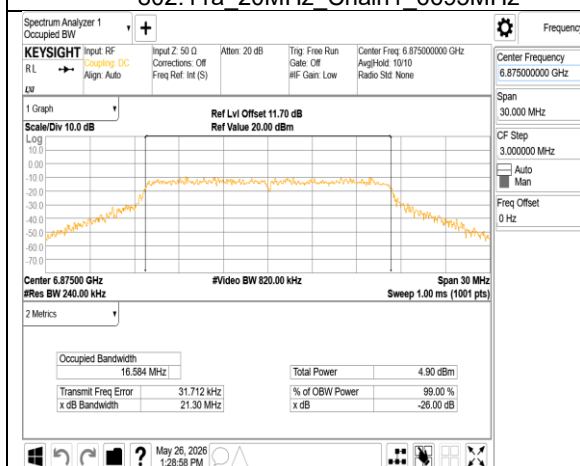
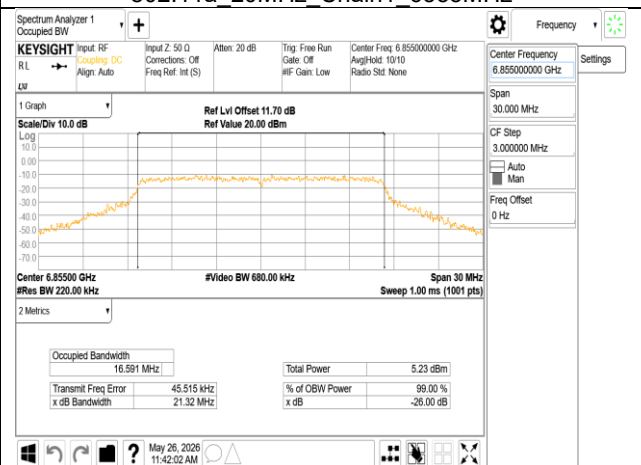
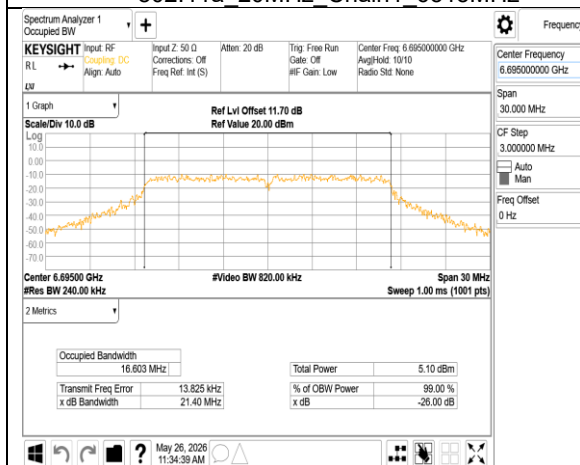
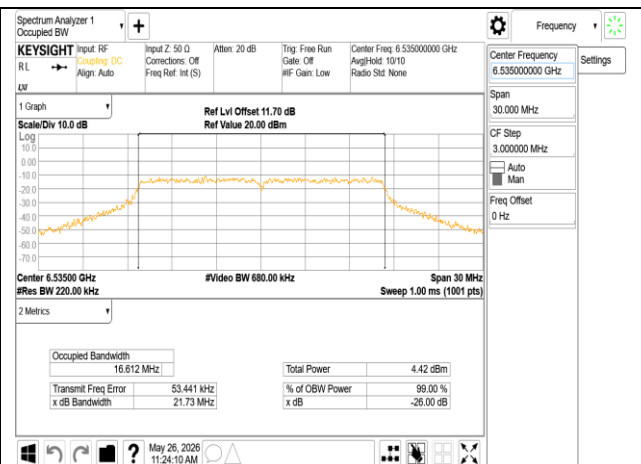
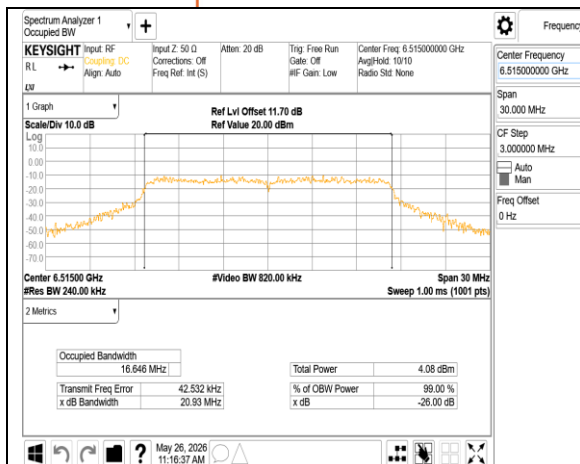
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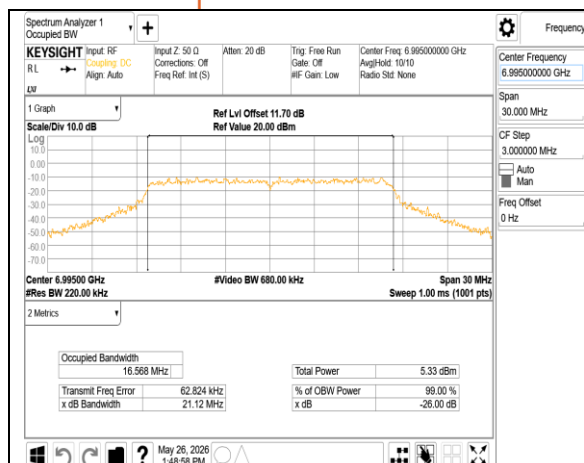
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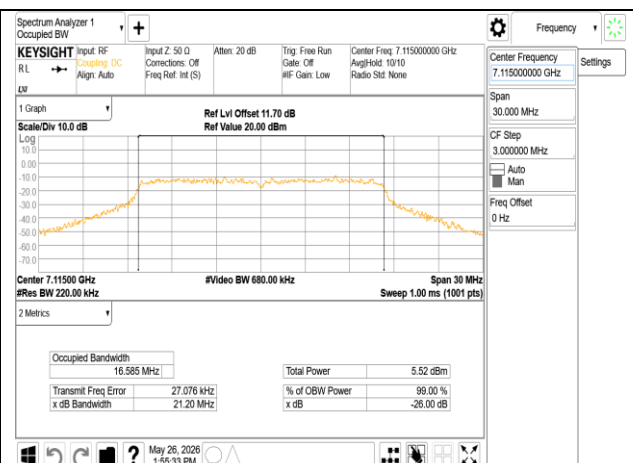
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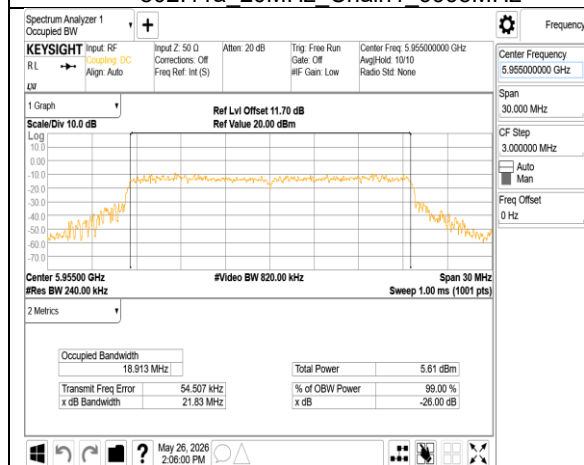
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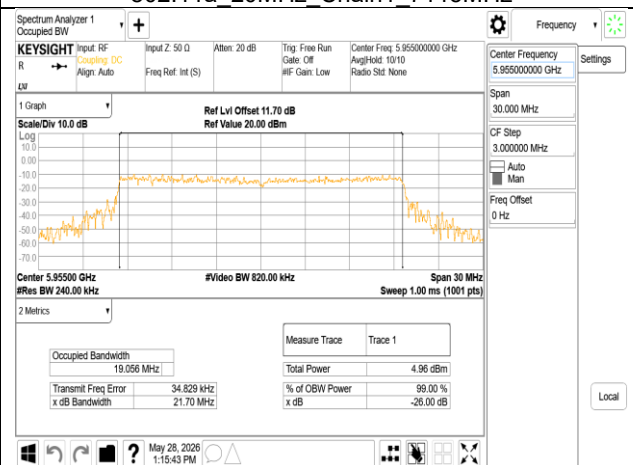
802.11a_20MHz_Chain1_6995MHz



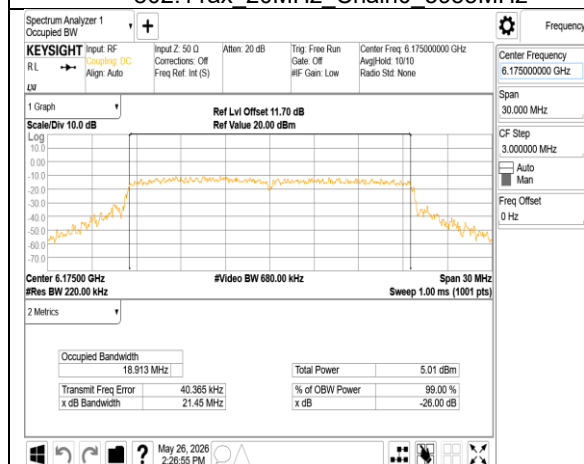
802.11a_20MHz_Chain1_7115MHz



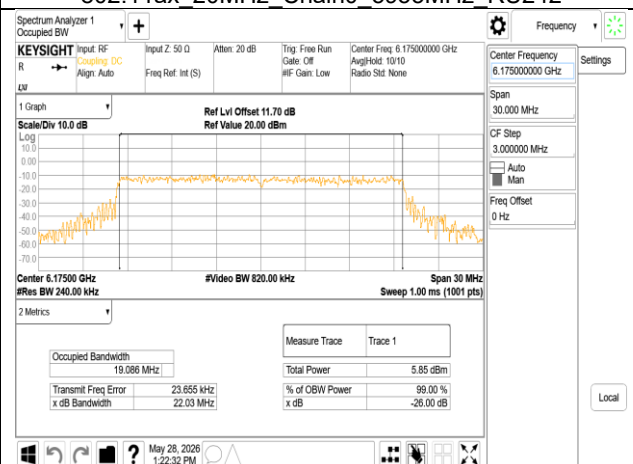
802.11ax_20MHz_Chain0_5955MHz



802.11ax_20MHz_Chain0_5955MHz RU242



802.11ax_20MHz_Chain0_6175MHz



802.11ax_20MHz_Chain0_6175MHz RU242

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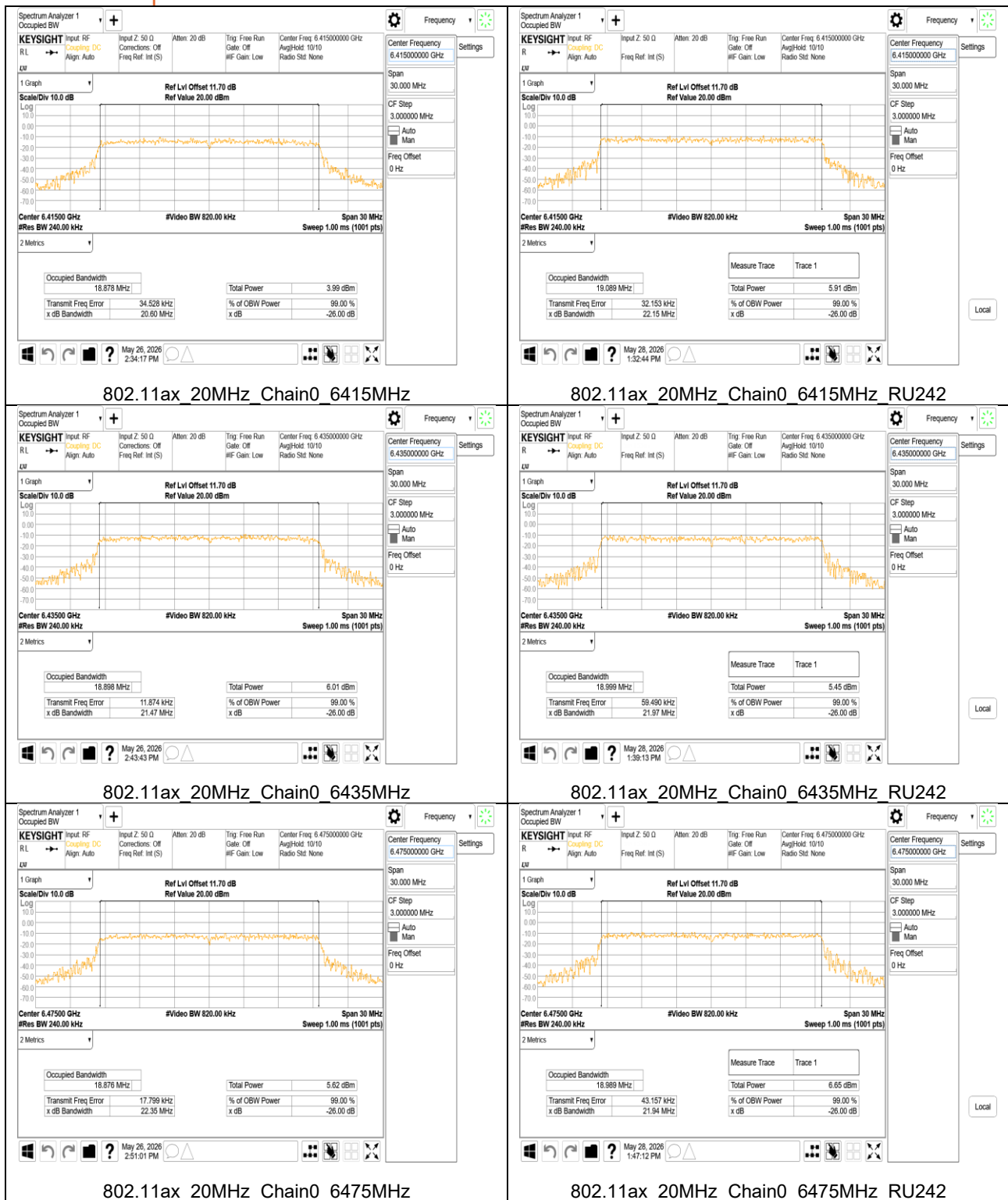
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802.11ax_20MHz_Chain0_6415MHz

802.11ax_20MHz_Chain0_6415MHz RU242

802.11ax_20MHz_Chain0_6435MHz

802.11ax_20MHz_Chain0_6435MHz RU242

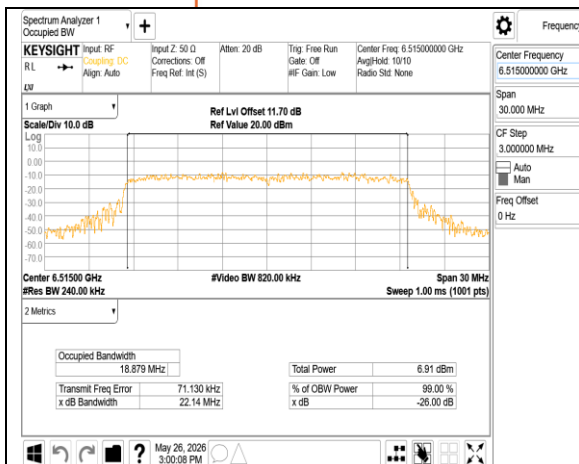
802.11ax_20MHz_Chain0_6475MHz

802.11ax_20MHz_Chain0_6475MHz RU242

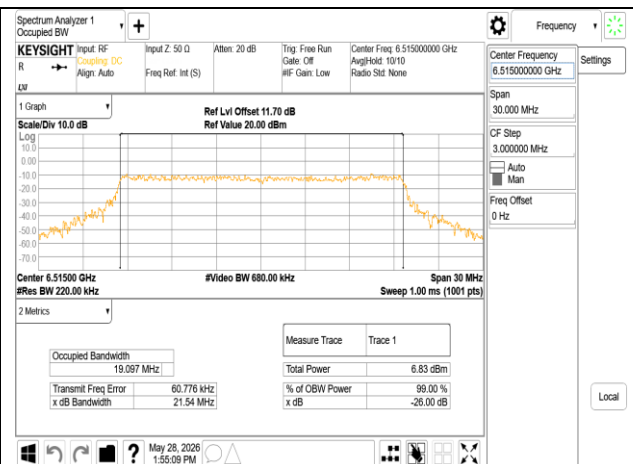
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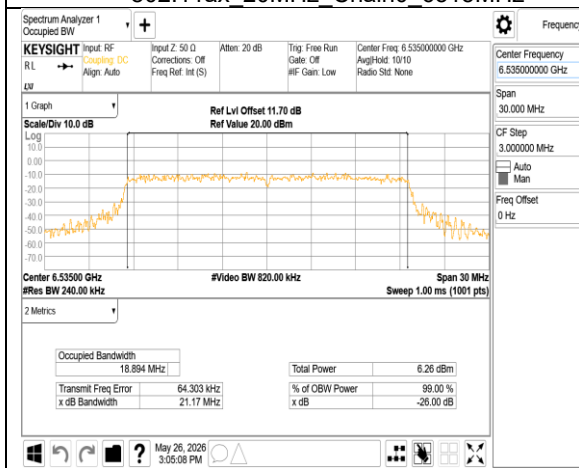
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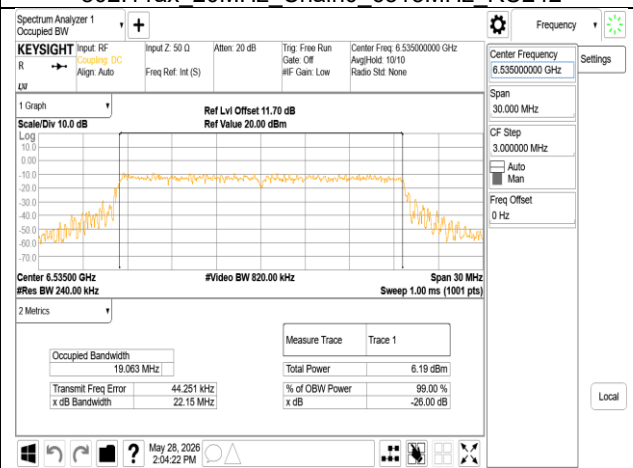
802.11ax 20MHz Chain0 6515MHz



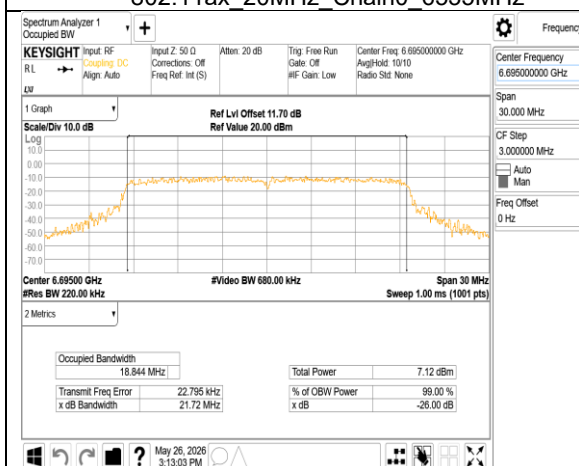
802.11ax 20MHz Chain0 6515MHz RU242



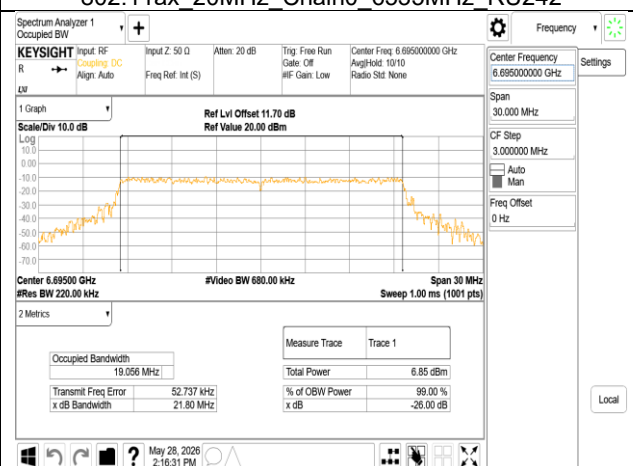
802.11ax 20MHz Chain0 6535MHz



802.11ax 20MHz Chain0 6535MHz RU242



802.11ax 20MHz Chain0 6695MHz



802.11ax 20MHz Chain0 6695MHz RU242

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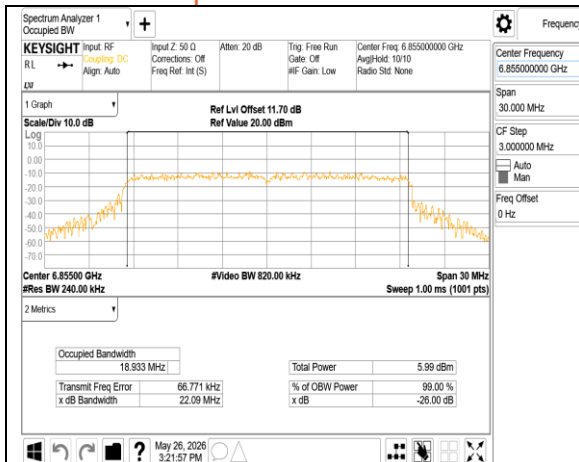
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

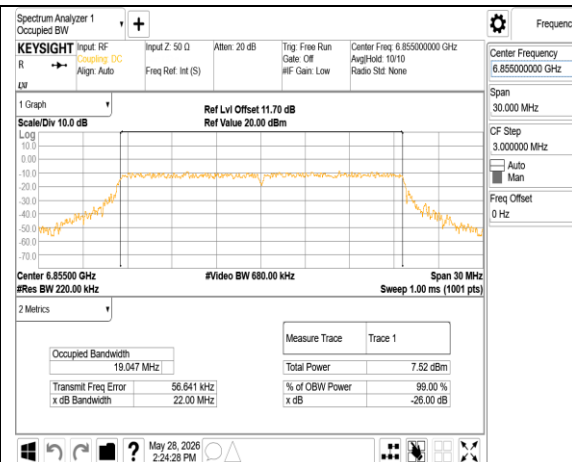
f (886-2) 2298-0488

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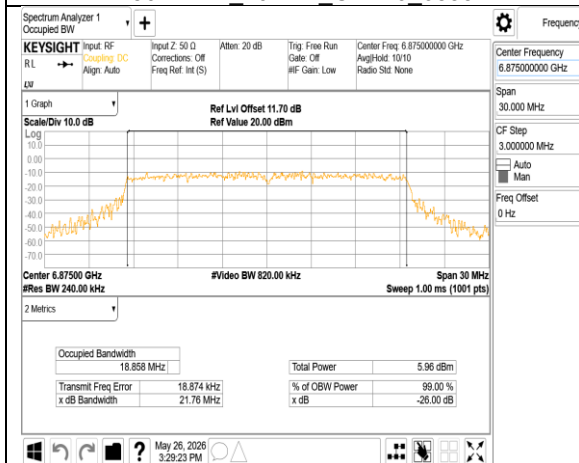
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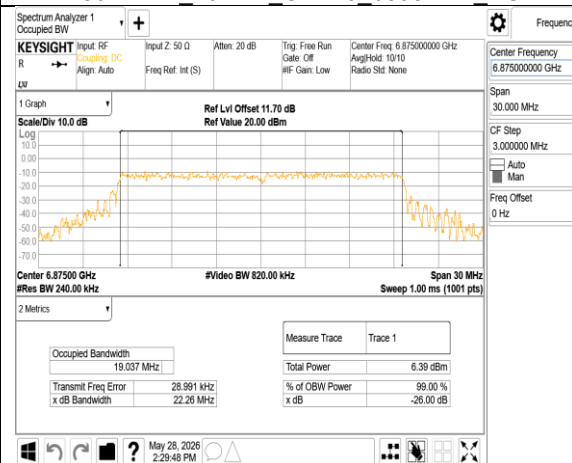
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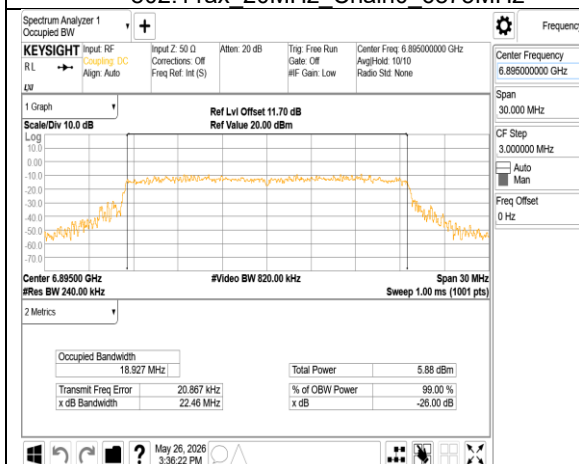
802.11ax_20MHz_Chain0_6855MHz RU242



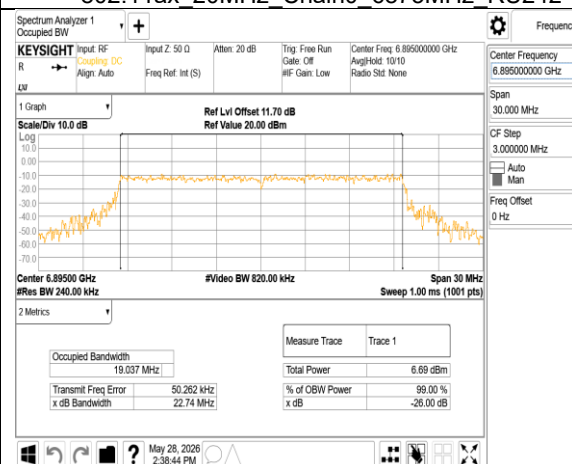
802.11ax_20MHz_Chain0_6875MHz



802.11ax_20MHz_Chain0_6875MHz RU242



802.11ax_20MHz_Chain0_6895MHz



802.11ax_20MHz_Chain0_6895MHz RU242

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