

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description ALARM.COM VIDEO DOORBELL

FCC Applicant: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS,
VIRGINIA 22102. USA.

FCC Manufacturer: ALARM.COM INCORPORATED
8281 GREENSBORO DRIVE, SUITE 100. TYSONS,
VIRGINIA 22102. USA.

Brand Name: ALARM.COM

Model No ADC-VDB750

Report Number: TERF2512004155ER

FCC ID YL6-143VDB750

Date of EUT Received: N/A, the test results are partially leveraged from test report number *TERF2512004160ER*, for more details please refer to section 2 in this report.

Date of Test: N/A, the test results are partially leveraged from test report number *TERF2512004160ER*, for more details please refer to section 2 in this report.

Issue Date: April 29, 2026

CHUN-CHIEH CHEN

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2020 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2512004155ER	00	Original	February 13, 2026	Mini Yeh	
TERF2512004155ER	01	Update section 7.2.2	April 29, 2026	Mini Yeh	*

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	ALARM.COM VIDEO DOORBELL
Brand Name:	ALARM.COM
Model No.:	ADC-VDB750
Hardware Version:	N/A
Firmware Version:	N/A
Power Supply:	16 Vdc
Test Software (Name/Version)	Tera Term/v4.84

1.2 Modulation & Data Rate

Modulation type	802.11a	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11n	64QAM, 16QAM, QPSK, BPSK for OFDM
	802.11ac	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate	802.11a	6 - 54 Mbps
	802.11n_HT20	up to 144.4 Mbps
	802.11n_HT40	up to 300 Mbps
	802.11ac_VHT20	up to 173.3 Mbps
	802.11ac_VHT40	up to 400 Mbps
	802.11ac_VHT80	up to 866.7 Mbps

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1.3 Antenna Designation

Antenna Type	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	ALA25F-221AA3-00	5150~5250	4
		5250~5350	3.3
		5470~5725	3.4
		5725~5850	3.5
	ALA25F-221AA2-00	5150~5250	3.2
		5250~5350	3.1
		5470~5725	1.7
		5725~5850	0.1

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 FCC Rated Power

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)
802.11a 802.11n_HT20 802.11ac_VHT20	5180~5240	4	Avg	21.56 dBm
	5260~5320	4	Avg	21.77 dBm
	5500~5720	12	Avg	22.38 dBm
	5745~5825	5	Avg	22.07 dBm
802.11n_HT40 802.11ac_VHT40	5190~5230	2	Avg	20.75 dBm
	5270~5310	2	Avg	20.99 dBm
	5510~5710	6	Avg	22.49 dBm
	5755~5795	2	Avg	22.44 dBm
802.11ac_VHT80	5210	1	Avg	9.22 dBm
	5290	1	Avg	8.35 dBm
	5530~5690	3	Avg	19.24 dBm
	5775	1	Avg	16.95 dBm

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1.5 Operating Frequencies

UNII-1 5150 MHz ~ 5250MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A 5250 MHz ~ 5350MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C 5470 MHz ~ 5725MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

UNII-3 5725 MHz ~ 5850MHz

20MHz		40MHz		80MHz	
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

Note: 5600~5650MHz is disabled in Canada.

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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.

Modulation		Transmission Chain								Single Transmission Spatial	Multiple Transmission Spatial
V	802.11 a	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
V	802.11 n	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
V	802.11 ac	V	Ch0	V	Ch1		Ch2		Ch3	1TX	V 2TX
	802.11 ax		Ch0		Ch1		Ch2		Ch3	1TX	2TX
	802.11 be		Ch0		Ch1		Ch2		Ch3	1TX	2TX

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

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE	TESTED	MODULATION	DATA RATE	ANTENNA
		CHANNEL	CHANNEL		(Mbps)	PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
	5845~5885	169 to 177	169,173,177			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
	5835~5875	167 to 175	167,175			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
	5855	171	171			

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	40	OFDM	6	2TX
	5260~5320	52 to 64	60	OFDM		
	5500~5720	100 to 144	120	OFDM		
	5745~5825	149 to 165	157	OFDM		

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TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,40,44,48	OFDM	6	Ch0
	5260~5320	52 to 64	52,56,60,64	OFDM		
	5500~5700	100 to 140	100,120,140,144	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
802.11n20	5180~5240	36 to 48	36,40,44,48	OFDM	MCS0	Ch0
	5260~5320	52 to 64	52,56,60,64	OFDM		
	5500~5700	100 to 140	100,120,140,144	OFDM		
	5745~5825	149 to 165	149,157,165	OFDM		
802.11n40	5190~5230	38 to 46	38,46	OFDM	MCS0	Ch0
	5270~5310	54 to 62	54,62	OFDM		
	5510~5670	102 to 134	102,118,134,142	OFDM		
	5755~5795	151 to 159	151,159	OFDM		
802.11ac80	5210	42	42	OFDM	MCS0	Ch0
	5290	58	58	OFDM		
	5530~5610	106 to 122	106,122,138	OFDM		
	5775	155	155	OFDM		

Note:

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

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2 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Compliant	
§15.407(e)	Emission Bandwidth	Compliant	
§15.407(a)	Maximum Conducted Output Power	Compliant	
§15.407(a)	Power Spectral Density	Compliant	
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant	
§15.407(c)	Transmission in case of Absence of Information	Compliant	
§15.203	Antenna Requirement	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. UNII-1 is newly tested in this report, while UNII-2A, UNII-2C, and UNII-3 are leveraged from test report TERF2512004160ER.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2020+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	+/- 1.54 dB
Emission Bandwidth	+/- 1.38 Hz
Output Power measurement	+/- 0.97 dB
Peak Power Spectral Density Measurement	+/- 0.61 dB
Frequency Stability	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

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

Note:

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

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	ISED CAB identifier/ Company Number
TW3702 / 4620A	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702 / 4620A
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	TW3702 / 4620E
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

Measurement	Test Site Name	Test Engineer	EUT S/N	Test Environment	Test Date
Conducted	Conducted E	Henry Chiang	50407435023E	21.2~22.3°C / 70~65%	2025/12/17 ~ 2026/01/29
Radiated	SAC G Chamber	Temo Chen	504074350244	20.5~22.3°C / 45~52%	2026/01/02 ~ 2026/01/07
Conduction	Conduction C	Temo Chen	504074350244	20.6°C / 54%	2026/01/14 ~ 2026/01/14

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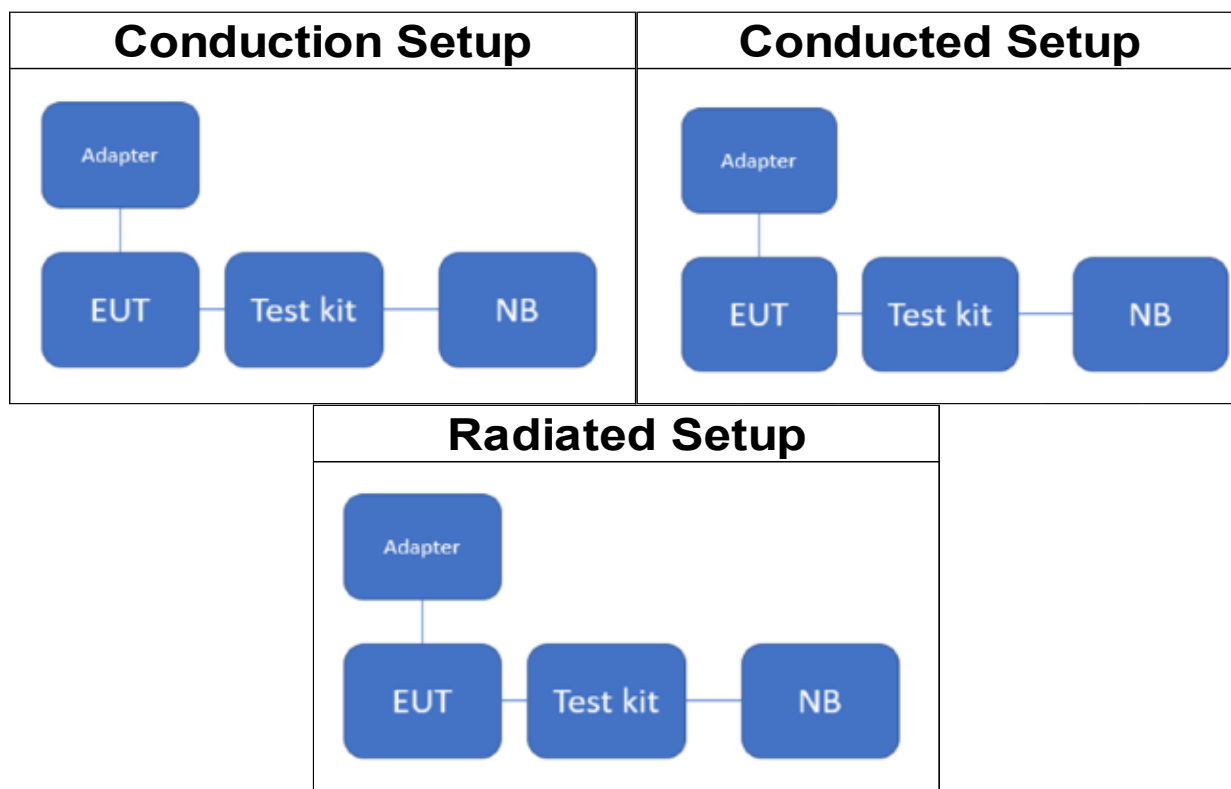
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

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

3.2 Diagrams



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3.3 List

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)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A
Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenove	T490	P0002550	N/A	N/A
Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Test Kit	LCC Fusion	Fusion Breakout Board	N/A	N/A	N/A
Adapter	Sunny-Hung	ADC-VD750-J	N/A	N/A	N/A
Notebook	Lenovo	T440p	P0000665	N/A	N/A

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4 TEST INSTRUMENT

4.1 Emission from AC power line

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	03/27/2025	03/26/2026
EMI Test Receiver	R&S	ESCI	101342	04/23/2025	04/22/2026
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/18/2025	04/17/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2025	03/26/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.2 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Marvelous	MVE2213-10	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	N9010A	MY57120200	04/02/2025	04/01/2026
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

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4.3 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1G Low pass Filter	Woken	EWT-56-0019	RF156	11/13/2025	11/12/2026
3m Site NSA	SGS	966 chamber G	N/A	03/30/2025	03/29/2026
5150-5350 Notch Filter	Micro-Tronics	BRC50703-G015	RF197	11/13/2025	11/12/2026
5500 5700 Notch Filter	Micro-Tronics	BRC50704-G016	RF198	11/13/2025	11/12/2026
5700-5900 Notch Filter	Micro-Tronics	BRC50705-G021	RF199	11/13/2025	11/12/2026
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/16/2025	01/15/2026
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM- NM- 8000+EMCCFD400- NM-NM- 5000+SUCOFLEX10 0+EMC104-SM-SM- 2000+EMC104-SM- SM-8000+EMC104- SM-SM-5000	210216+210217+8 4103701/15+16010 5+210217+210220	11/13/2025	11/12/2026
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/15/2025	04/14/2026
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2025	08/06/2026
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC184045SEE	980881	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/26/2025	06/25/2026
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	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

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

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

5.2 Maximum Output Power

5.2.1 Duty Cycle

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

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

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5.2.2 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		Subordinate device	Not required	36dBm	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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5.3 Maximum Power Spectral Density

5.3.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm / MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		Indoor client	14dBm / MHz e.i.r.p.	Not required
		Subordinate device	20dBm / MHz e.i.r.p.	Not required

If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the

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5.4 Unwanted Emission

5.4.1 5150~5850 MHz

Standards	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §7.3.1.3	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §7.3.2.3	5250~5350			
15.407(b)(3) RSS-247 §7.3.3.3	5475~5725			
15.407(b)(4)(i) RSS-247 §7.3.4.4	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

$EIRP = (E^2 \cdot d) / 30$, where E is the field strength in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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5.4.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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.

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5.5 AC Power Line Conducted Emission

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

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

Note

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

5.6 Antenna Requirements

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

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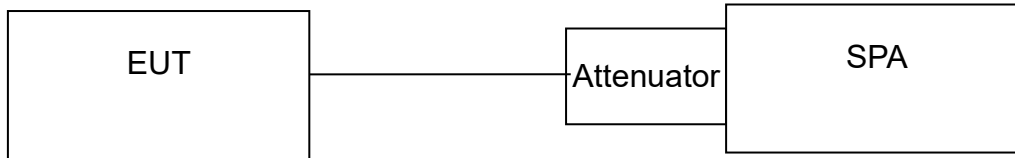
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6 TEST CONFIGURATION

6.1 Emission Bandwidth



1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
4. 26dB Band width Measurement
 - a. Set the spectrum analyzer as
RBW=1% of emission BW
VBW > RBW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Use the X dB bandwidth mode function of the spectrum analyzer and set to 26dB.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW $\geq 3 \times$ RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Use the X dB bandwidth mode function of the spectrum analyzer and set to 6dB.
6. For 99% Bandwidth:
 - a. Set the spectrum analyzer as
RBW = 1% to 5% of the OBW,
VBW $\geq 3 \times$ RBW,
Span = 1.5 times to 5.0 times the OBW
Detector=Sample/Peak,
Sweep=auto.
 - b. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all frequency of interest measured was complete.

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

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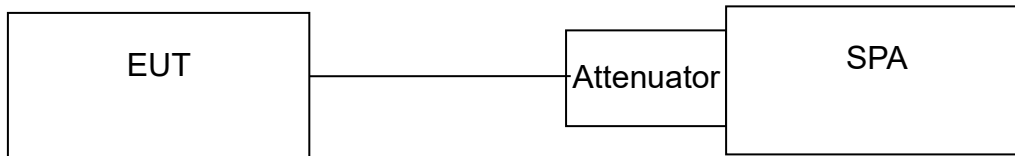
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6.2 Maximum Output Power

6.2.1 Duty Cycle



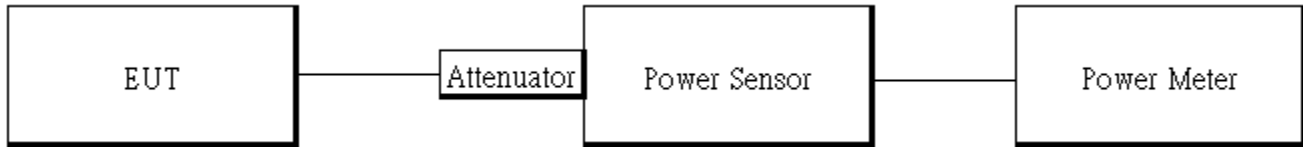
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

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6.2.2 Maximum Output Power



Note: For all straddle channels, the full bandwidth power is reported under UNII Band 2C and UNII Band 4 respectively, as the combined power from their adjacent bands has already met the most restrictive power limits for each respective band.

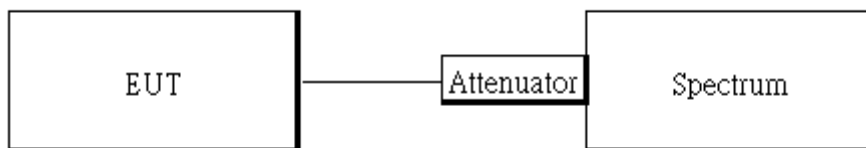
1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
 - Set span to encompass the EBW
 - RBW = 1MHz
 - VBW = 3MHz
 - Detector = RMS
 - Sweep points $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
 - Sweep time = auto, trigger set to "free run"
 - Trace average at least 100 traces in power averaging (rms) mode
 - Compute power by integrating the spectrum across the EBW or OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW or OBW of the spectrum.
4. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.
7. The directional gain is calculated using the formula

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$$
8. For U-NII-1, 2A, 2C, and 3 bands, if the antenna gain exceeds 6 dBi, the power spectral density limit is correspondingly reduced.

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6.3 Maximum Power Spectral Density



1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
3. **For U-NII1, U-NII-2A, U-NII-2C, U-NII-4 Bands:**
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)
- For U-NII-3 Band:**
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging. In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
4. Use the cursor on spectrum to peak search the highest level of trace
5. (1)Duty cycle ≥ 98% : Record the max. reading.
(2)Duty cycle < 98% : Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.
7. When testing for multiple output ports in simultaneous transmission mode, the measured values of each individual output port are tested separately and then linearly summed.
8. The directional gain is calculated using the formula
$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$$
9. For U-NII-1, 2A, 2C, and 3 bands, if the antenna gain exceeds 6 dBi, the power spectral density limit is correspondingly reduced.

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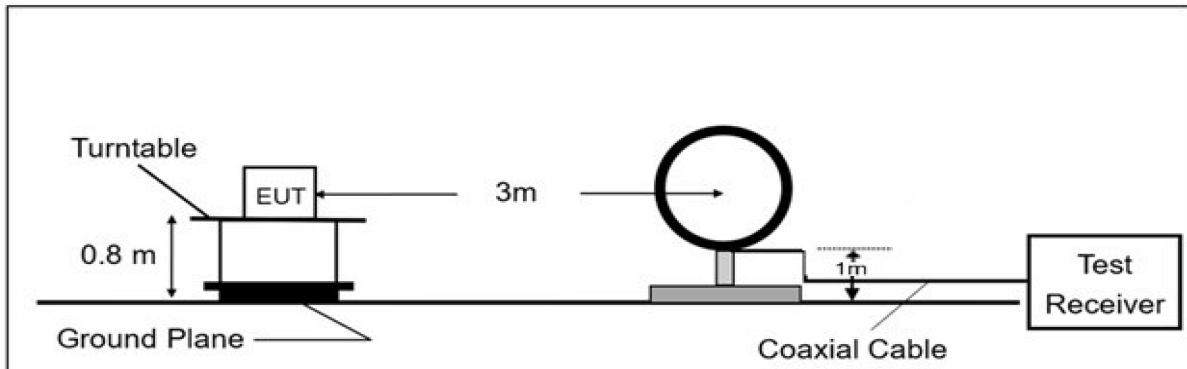
6.4 Unwanted Emission

6.4.1 Radiated Emission Test Sites

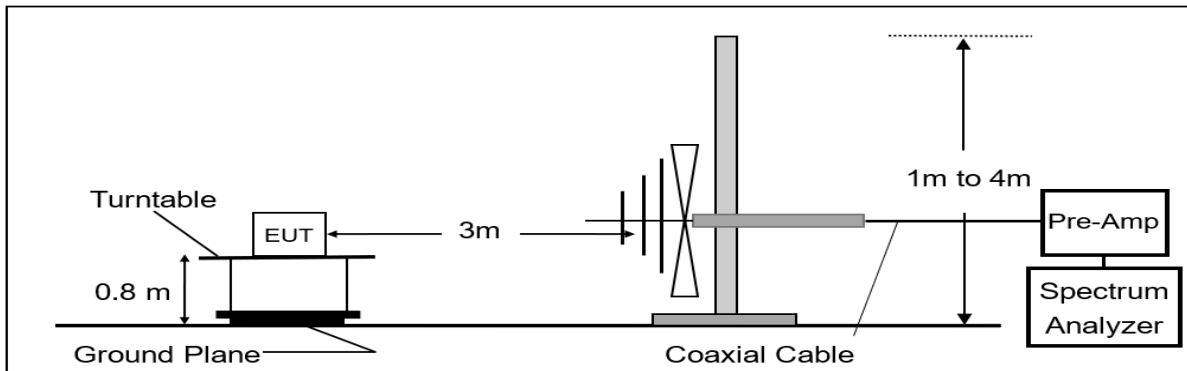
For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

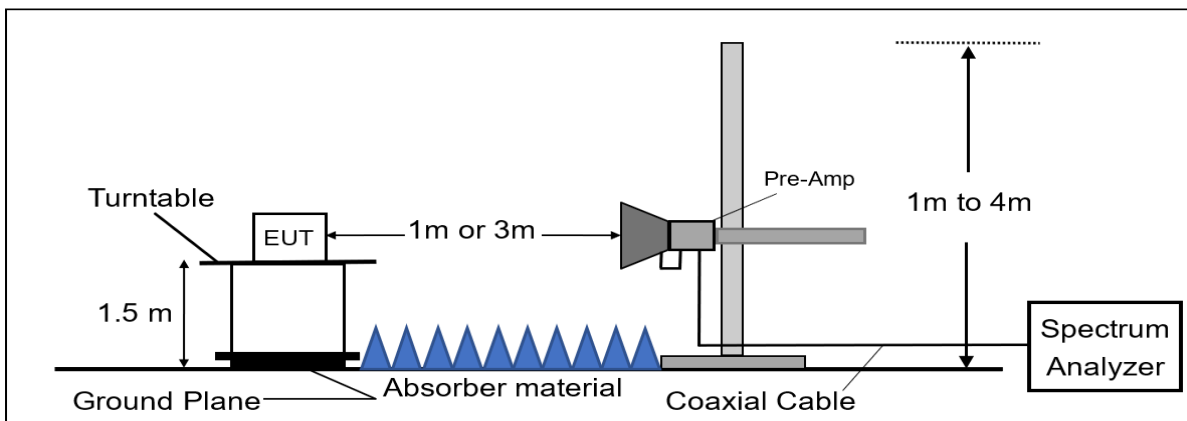
Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



Radiated Emission Test Set-Up, Frequency Above 1GHz



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

Note: The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not reported.

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6.4.2 Field Strength Calculation

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

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

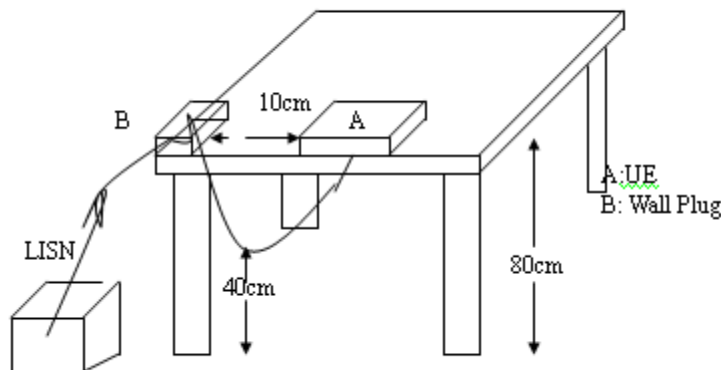
Where FS = Field Strength(dB μ V/m) CL = Cable Attenuation Factor (Cable Loss) (dB)
 RA = Reading Amplitude(dB μ V) AG = Amplifier Gain (dB)
 AF = Antenna Factor (dB μ V/m)

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

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6.5 AC Power Line Conducted Emission



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

Level = Read Level + Factor

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

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7 TEST RESULTS

7.1 Emission Bandwidth

7.1.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.39	13.300
5220	25.10	14.000
5240	24.29	13.850
5260	23.71	13.750
5300	24.90	13.960
5320	23.62	13.730
5500	26.95	14.310
5600	25.32	14.030
5700	30.00	14.770
5720	19.52	12.900

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.84	14.750
5220	22.46	13.510
5240	21.86	13.400
5260	23.84	13.770
5300	22.68	13.560
5320	24.14	13.830
5500	24.89	13.960
5600	29.72	14.730
5700	29.67	14.720
5720	19.62	12.930

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.50	5.440
5745	16.31	12.120
5785	16.37	12.140
5825	16.37	12.140

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.57	5.530
5745	16.40	12.150
5785	16.42	12.150
5825	16.34	12.130

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.62	< 5250
5745	5736.49	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.52	< 5250
5745	5736.87	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	24.94	13.970
5220	27.46	14.390
5240	25.28	14.030
5260	25.55	14.070
5300	29.15	14.650
5320	27.36	14.370
5500	29.47	14.690
5600	29.31	14.670
5700	30.00	14.770
5720	19.56	12.910

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	28.50	14.550
5220	27.24	14.350
5240	43.61	16.400
5260	22.96	13.610
5300	28.82	14.600
5320	29.47	14.690
5500	28.57	14.560
5600	28.43	14.540
5700	29.85	14.750
5720	18.83	12.750

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.62	5.590
5745	16.32	12.130
5785	16.38	12.140
5825	16.36	12.140

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5720	3.71	5.690
5745	16.40	12.150
5785	16.39	12.150
5825	16.39	12.150

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.82	< 5250
5745	5736.88	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.04	< 5250
5745	5737.04	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	60.00	17.780
5230	58.33	17.660
5270	54.22	17.340
5310	52.59	17.210
5510	57.23	17.580
5590	54.19	17.340
5670	60.00	17.780
5710	44.44	16.480

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	52.76	17.220
5230	61.15	17.860
5270	58.60	17.680
5310	59.79	17.770
5510	60.00	17.780
5590	60.00	17.780
5670	60.00	17.780
5710	44.65	16.500

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.60	5.560
5755	35.59	15.510
5795	35.78	15.540

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5710	3.24	5.110
5755	36.11	15.580
5795	36.11	15.580

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.70	< 5250
5755	5736.32	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.69	< 5250
5755	5736.84	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	143.25	21.560
5290	115.73	20.630
5530	117.35	20.690
5610	117.93	20.720
5690	94.56	19.760

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	136.18	21.340
5290	116.21	20.650
5530	116.81	20.670
5610	117.74	20.710
5690	93.70	19.720

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.81	4.490
5775	75.33	18.770

802.11ac_VHT80_Ch1

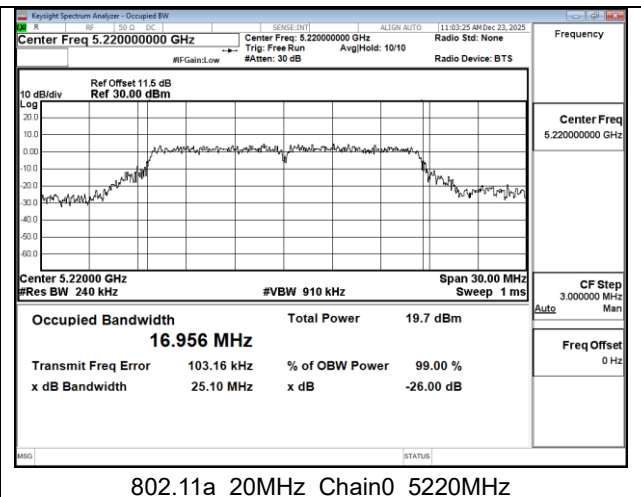
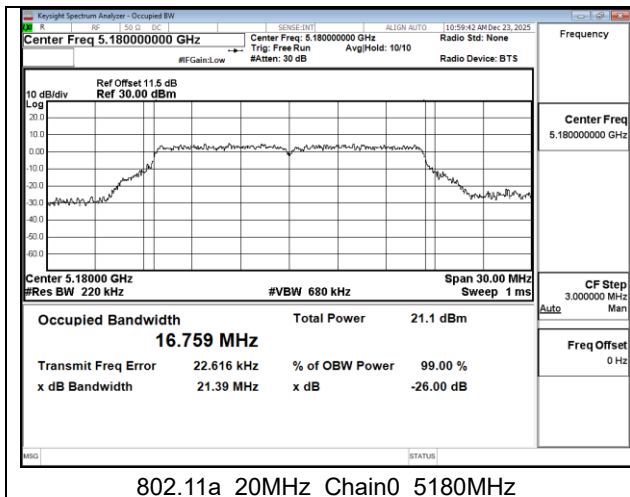
Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5690	2.16	3.340
5775	75.38	18.770

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.88	< 5250
5775	5737.06	> 5725

802.11ac_VHT80_Ch1

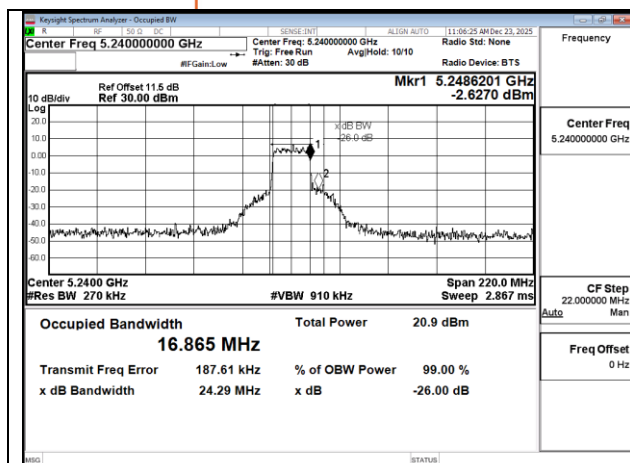
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.96	< 5250
5775	5737.15	> 5725



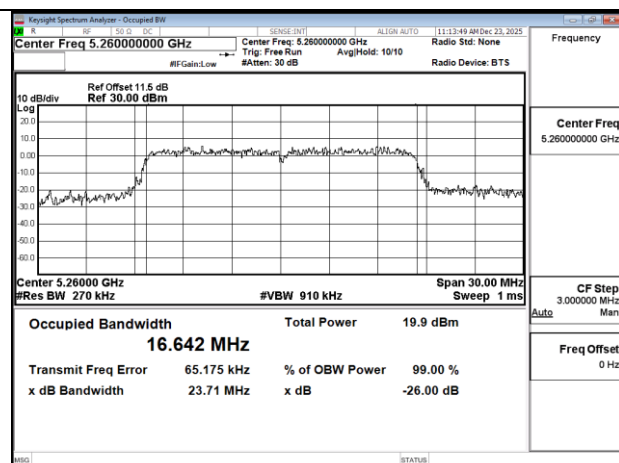
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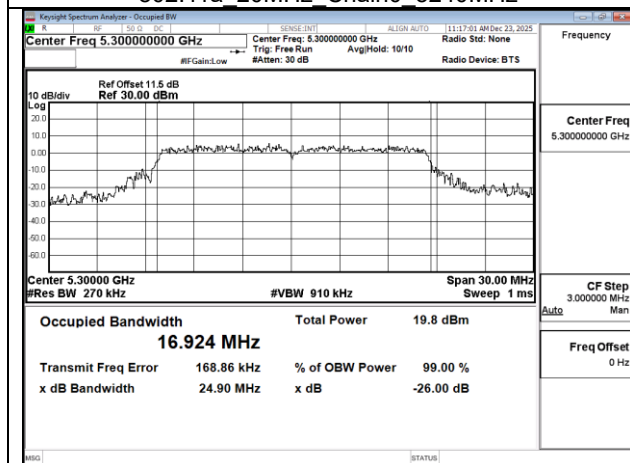
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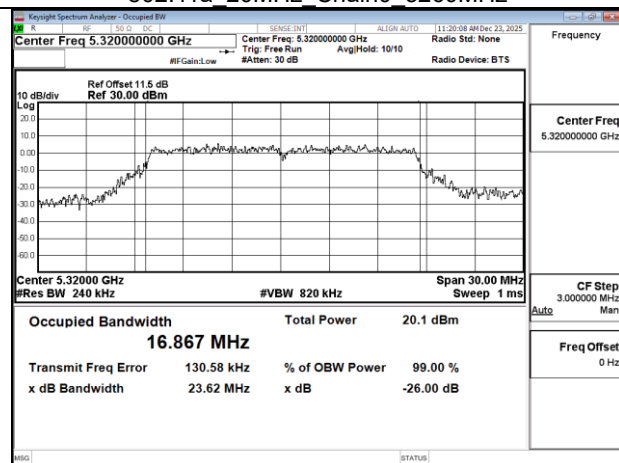
802.11a 20MHz Chain0 5240MHz



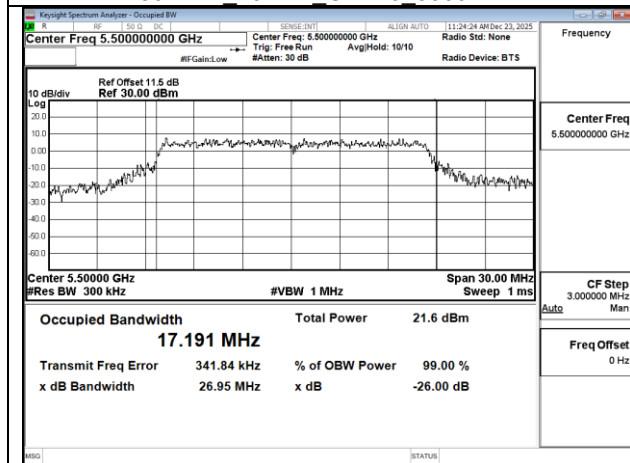
802.11a 20MHz Chain0 5260MHz



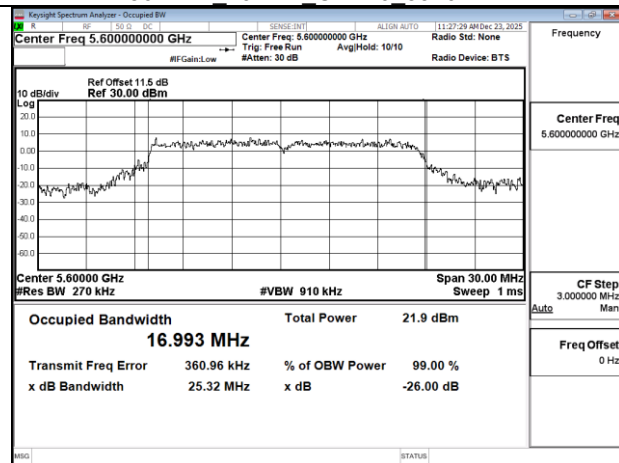
802.11a 20MHz Chain0 5300MHz



802.11a 20MHz Chain0 5320MHz



802.11a 20MHz Chain0 5500MHz

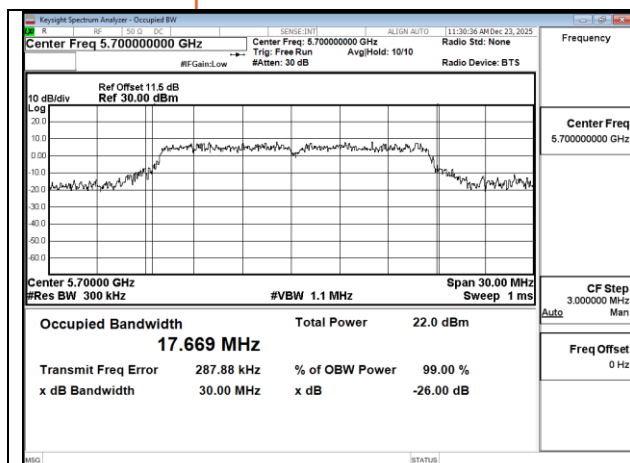


802.11a 20MHz Chain0 5600MHz

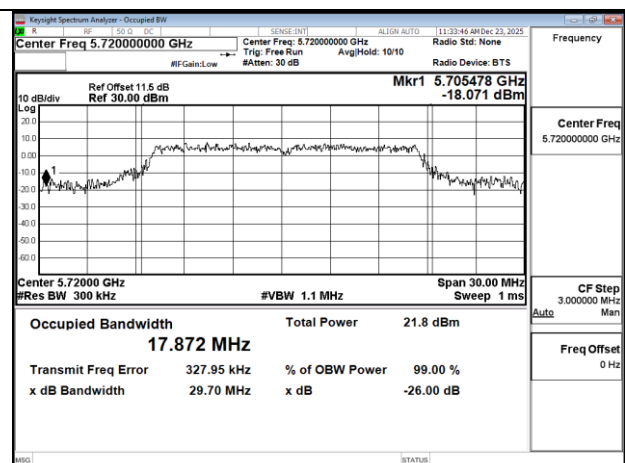
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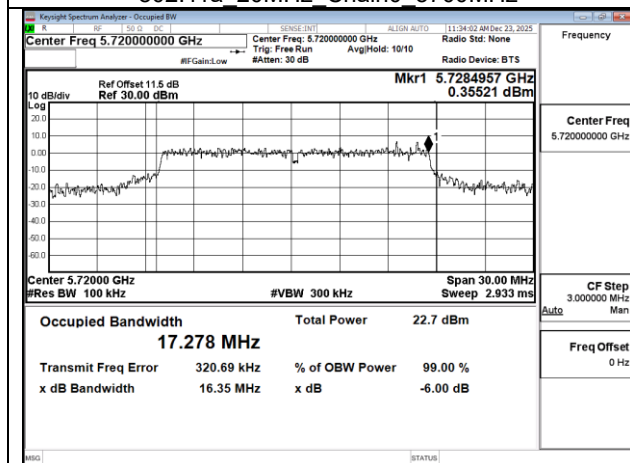
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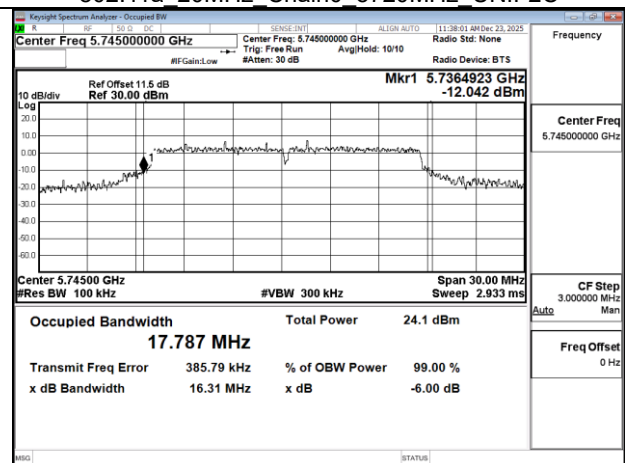
802.11a 20MHz Chain0 5700MHz



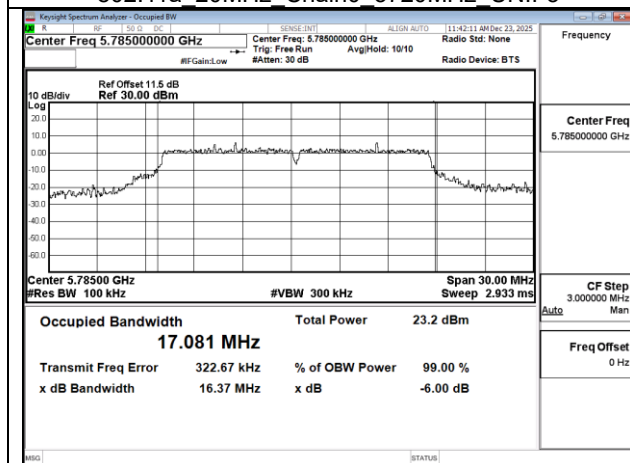
802.11a 20MHz Chain0 5720MHz UNII-2C



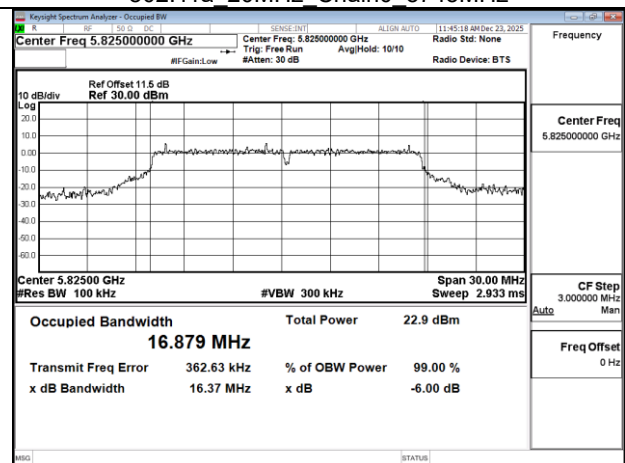
802.11a 20MHz Chain0 5720MHz UNII-3



802.11a 20MHz Chain0 5745MHz



802.11a 20MHz Chain0 5785MHz



802.11a 20MHz Chain0 5825MHz

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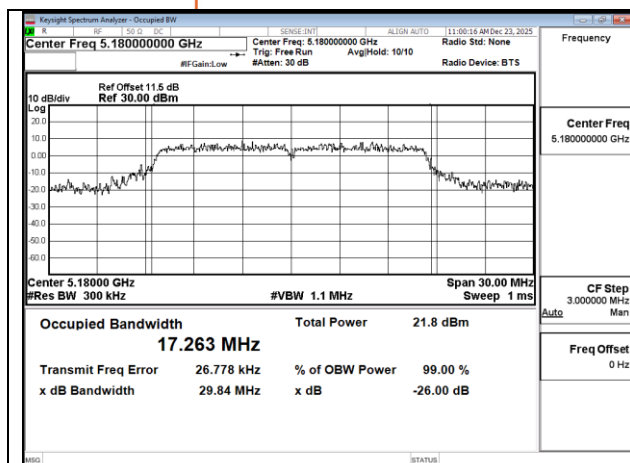
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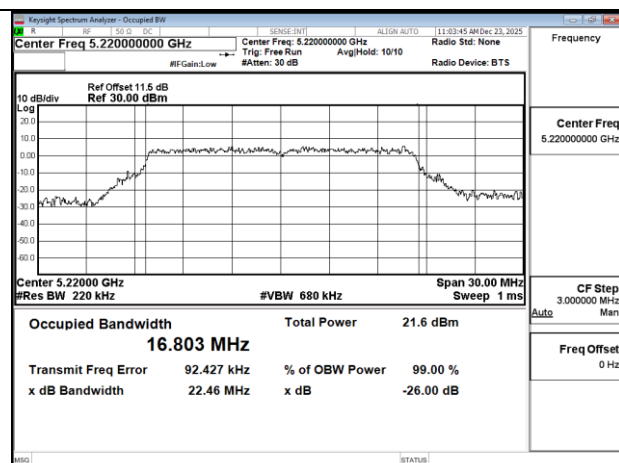
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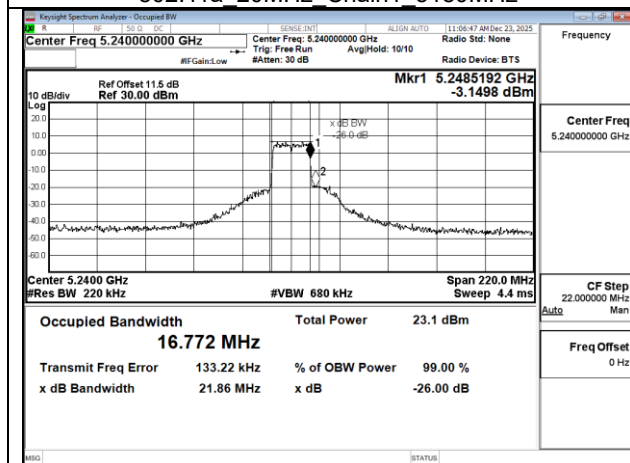
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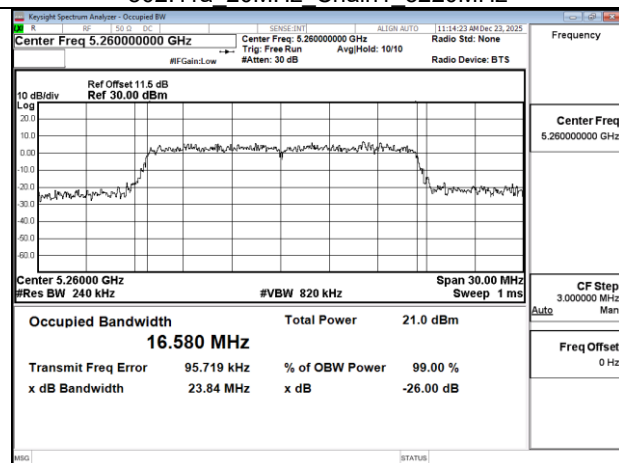
802.11a 20MHz Chain1 5180MHz



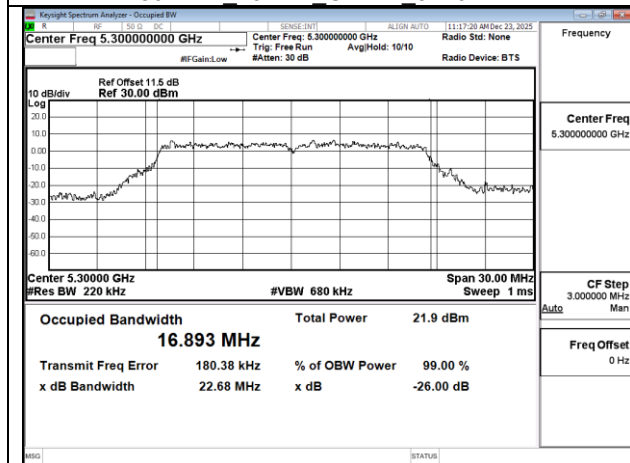
802.11a 20MHz Chain1 5220MHz



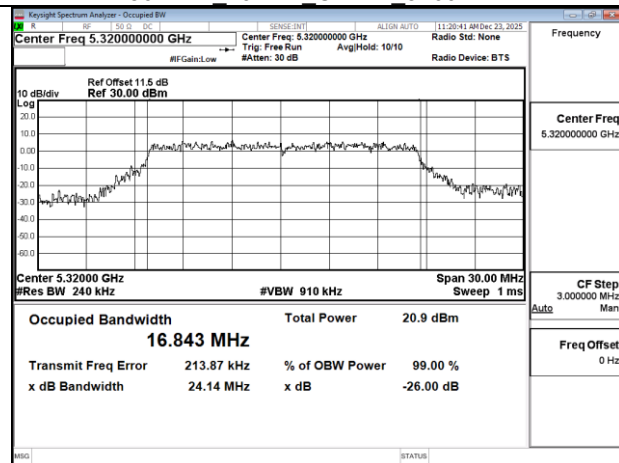
802.11a 20MHz Chain1 5240MHz



802.11a 20MHz Chain1 5260MHz



802.11a 20MHz Chain1 5300MHz



802.11a 20MHz Chain1 5320MHz

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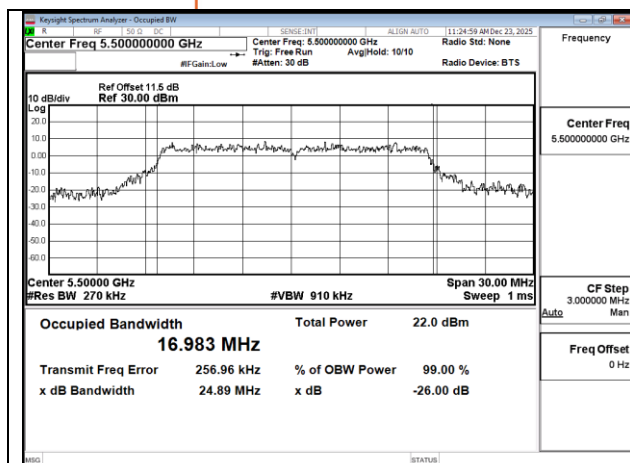
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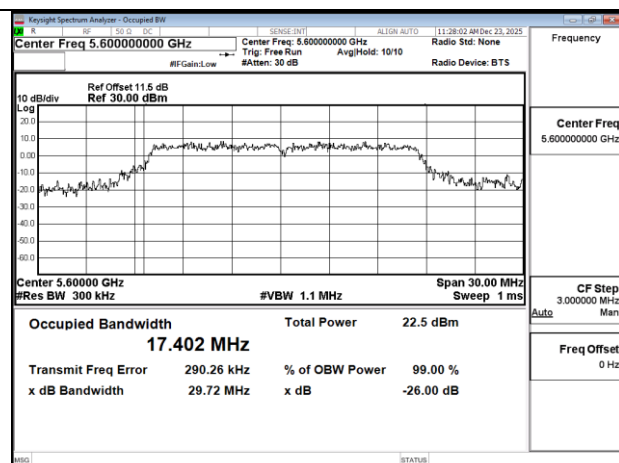
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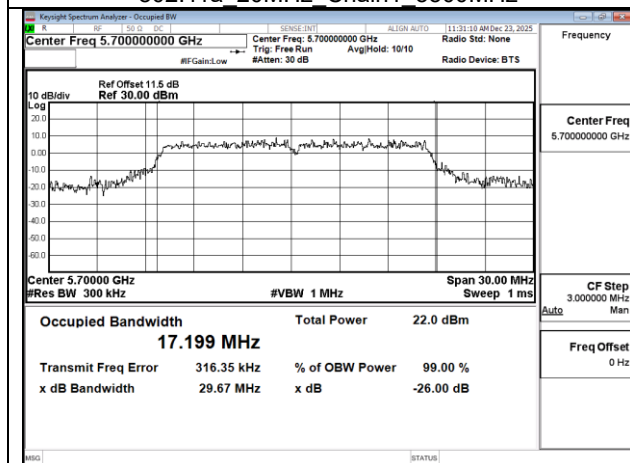
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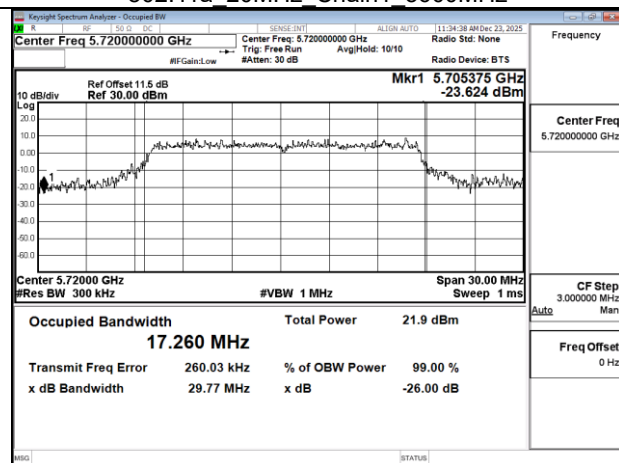
802.11a 20MHz Chain1 5500MHz



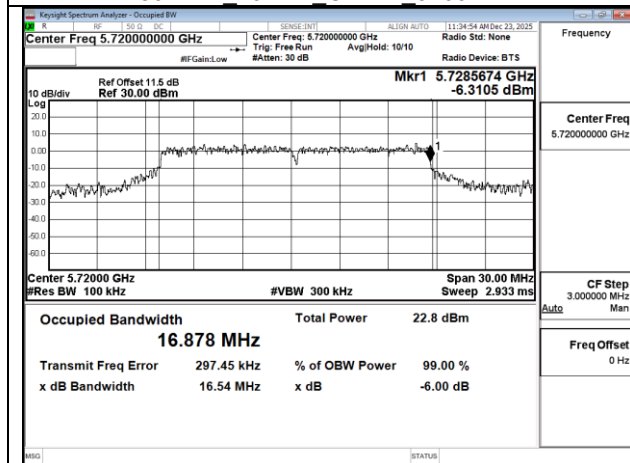
802.11a 20MHz Chain1 5600MHz



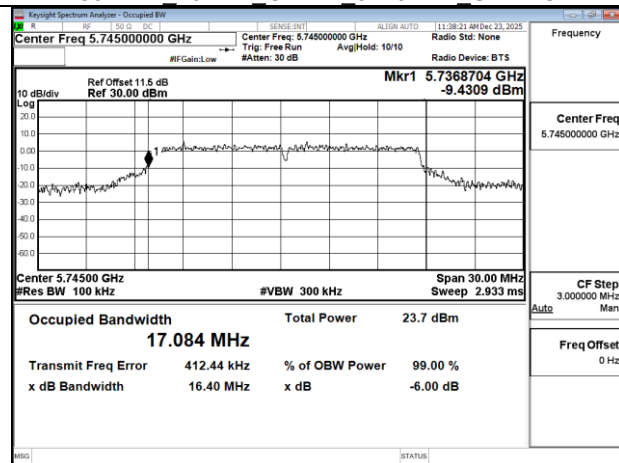
802.11a 20MHz Chain1 5700MHz



802.11a 20MHz Chain1 5720MHz UNII-2C



802.11a 20MHz Chain1 5720MHz UNII-3

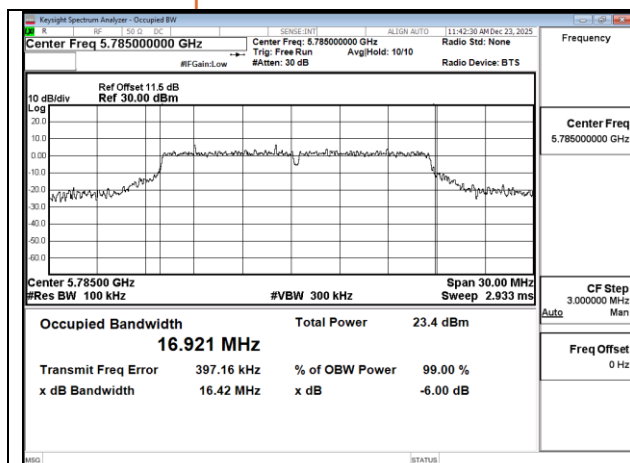


802.11a 20MHz Chain1 5745MHz

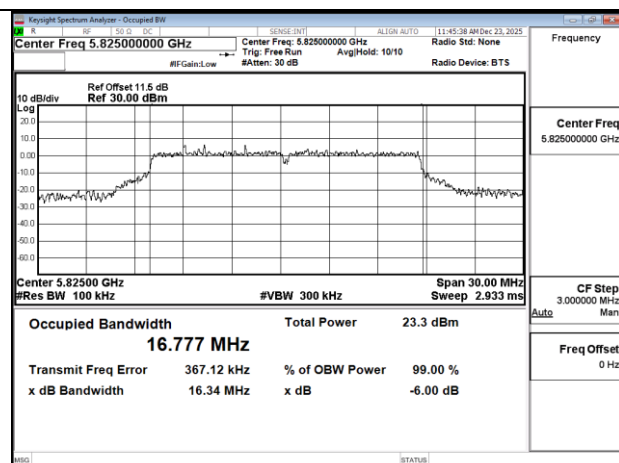
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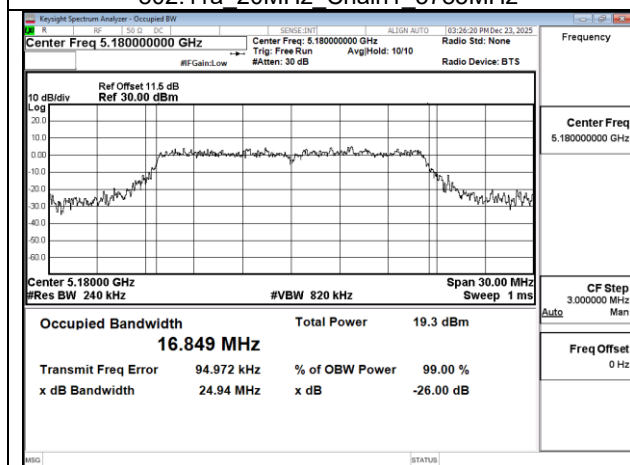
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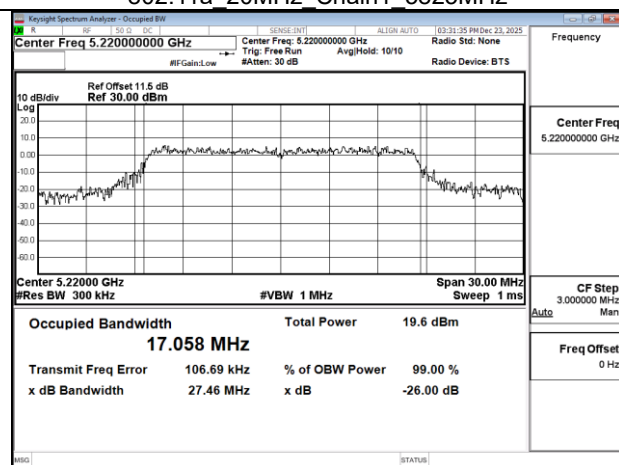
802.11a 20MHz Chain1 5785MHz



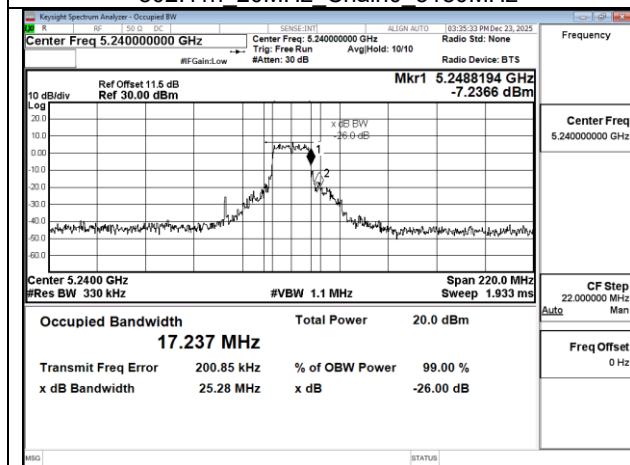
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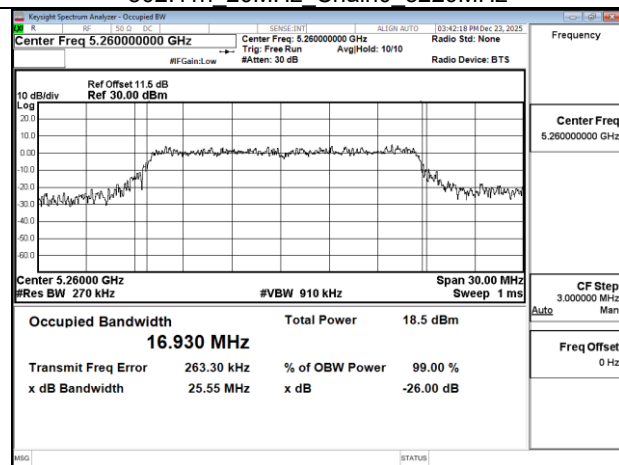
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802.11n 20MHz Chain0 5220MHz



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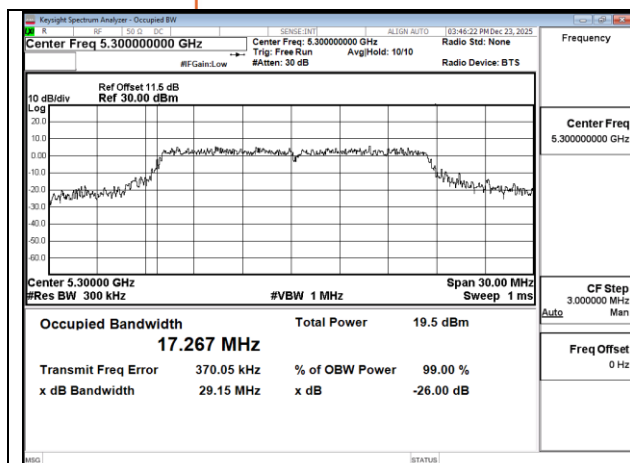


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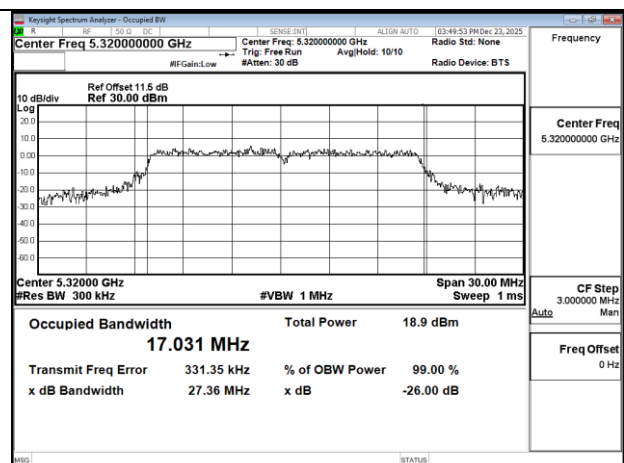
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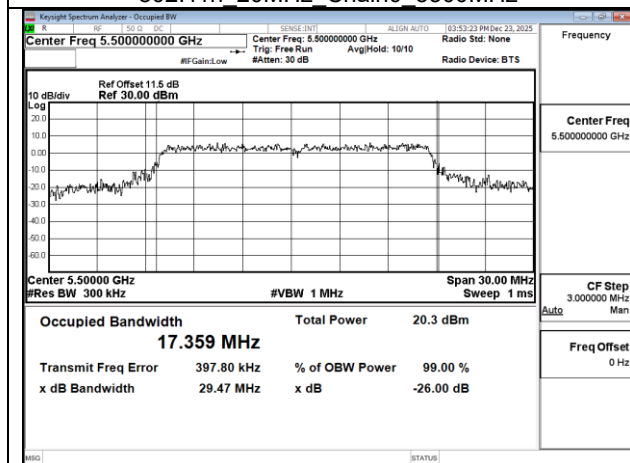
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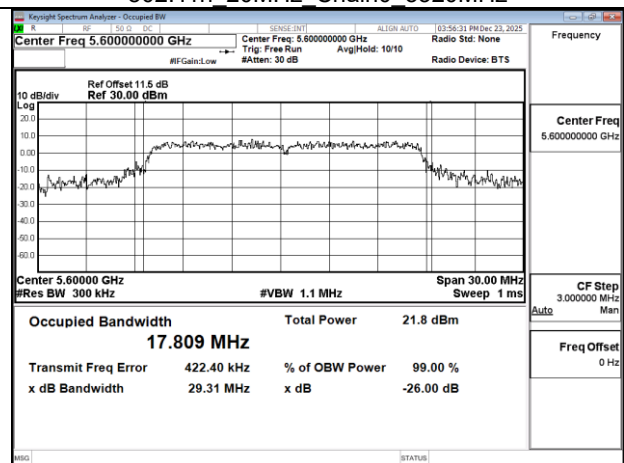
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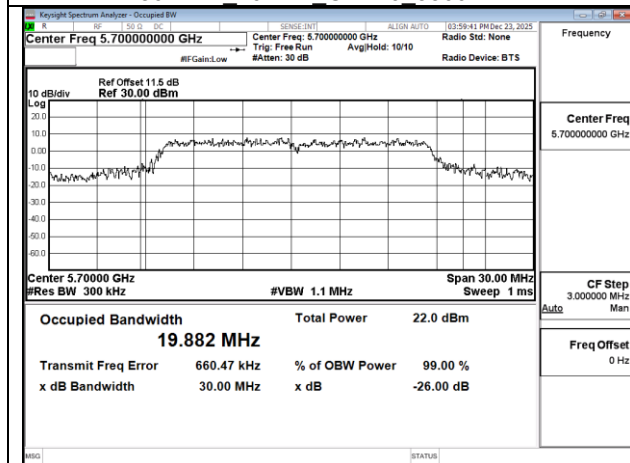
802.11n 20MHz Chain0 5320MHz



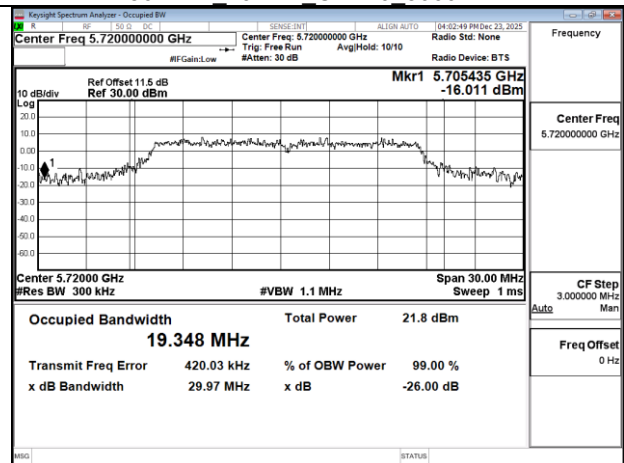
802.11n 20MHz Chain0 5500MHz



802.11n 20MHz Chain0 5600MHz



802.11n 20MHz Chain0 5700MHz



802.11n 20MHz Chain0 5720MHz UNII-2C

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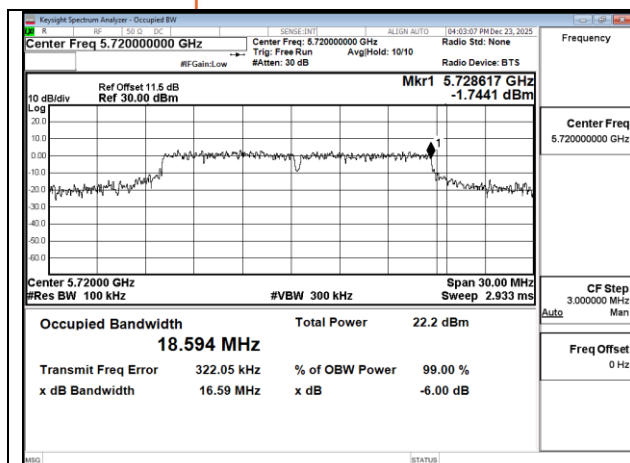
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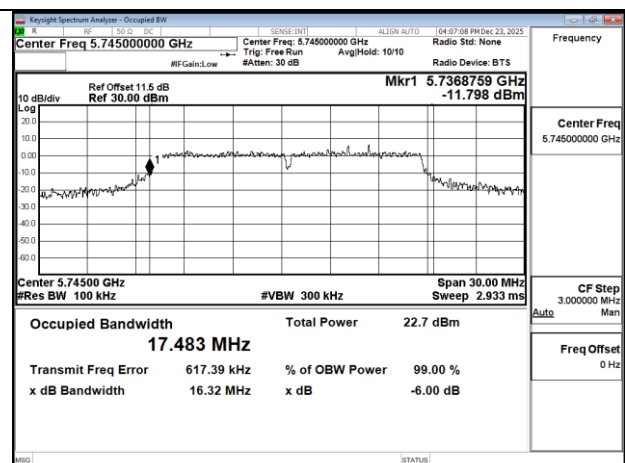
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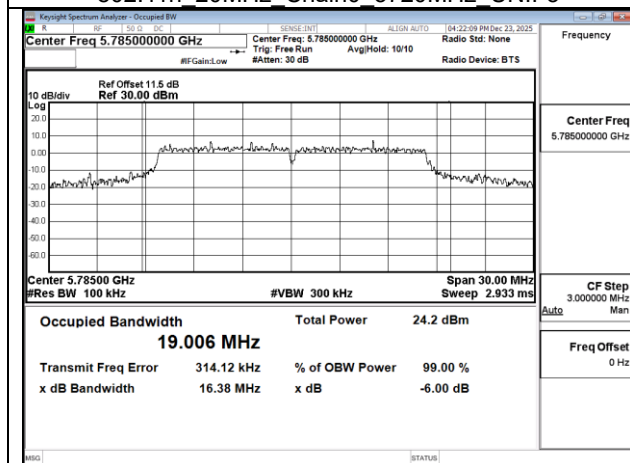
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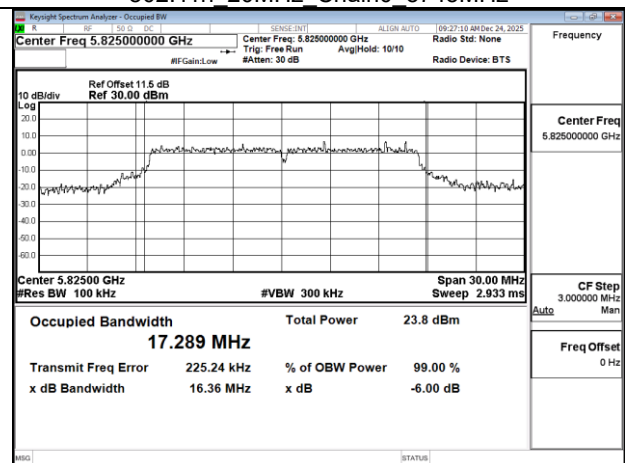
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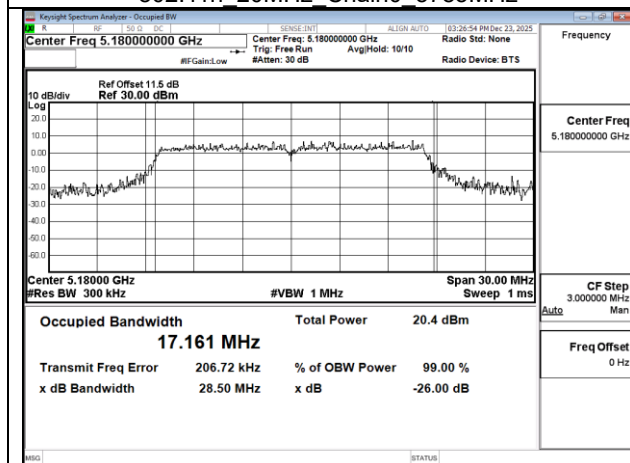
802.11n 20MHz Chain0 5745MHz



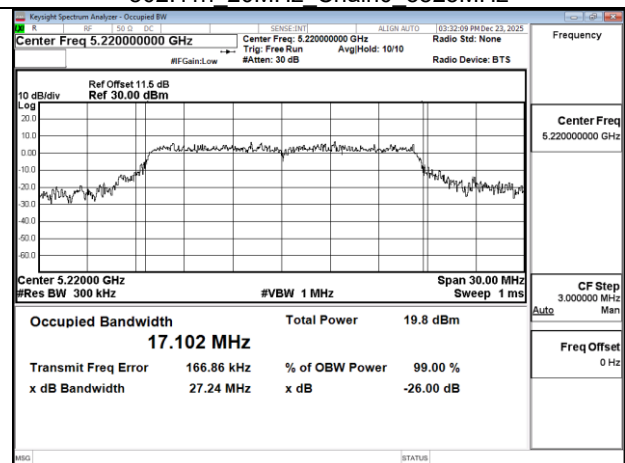
802.11n 20MHz Chain0 5785MHz



802.11n 20MHz Chain0 5825MHz



802.11n 20MHz Chain1 5180MHz



802.11n 20MHz Chain1 5220MHz

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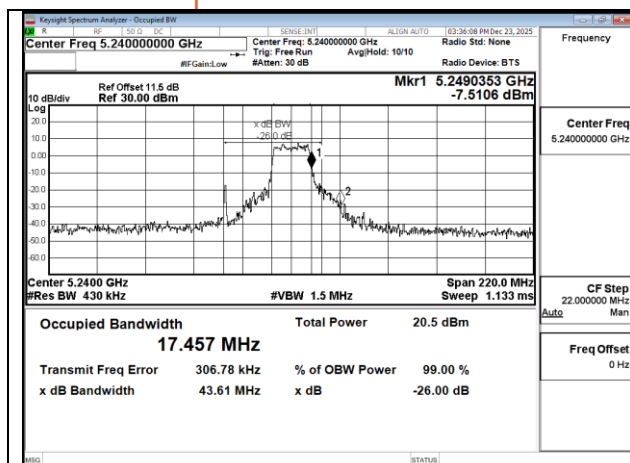
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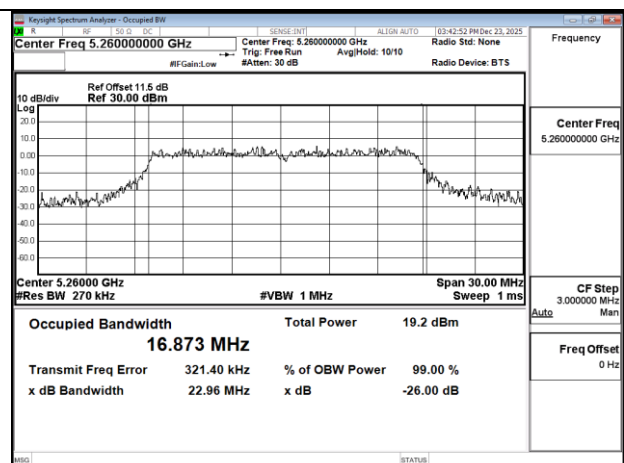
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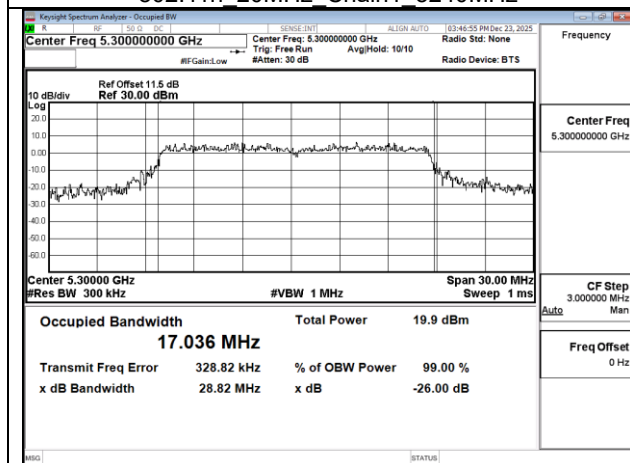
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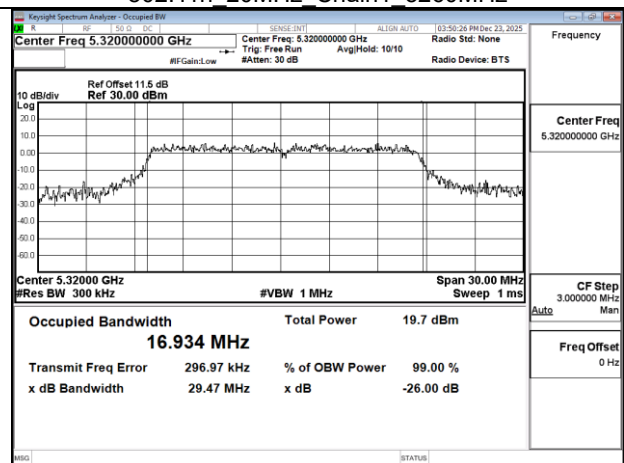
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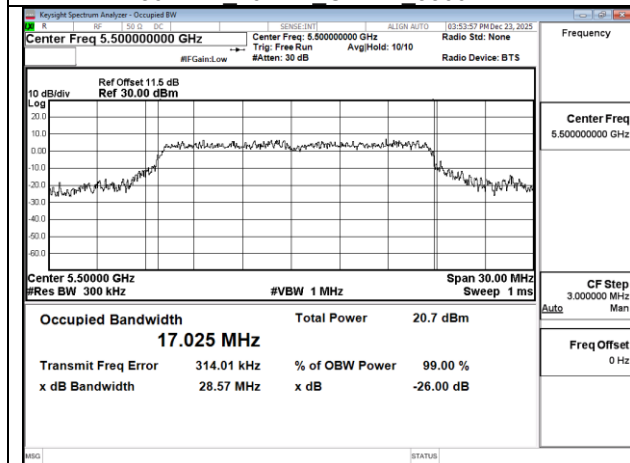
802.11n 20MHz Chain1 5260MHz



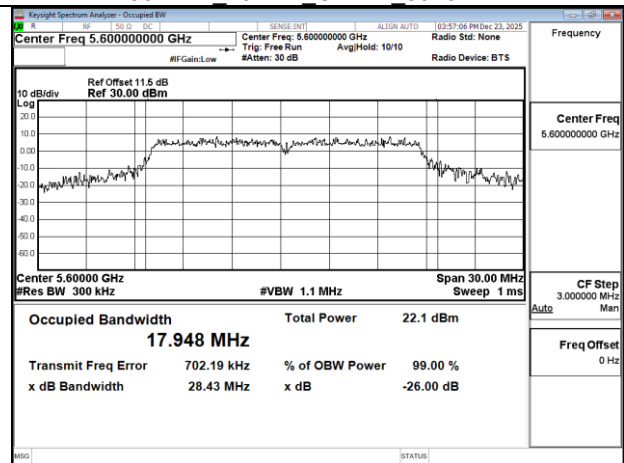
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802.11n 20MHz Chain1 5320MHz



802.11n 20MHz Chain1 5500MHz

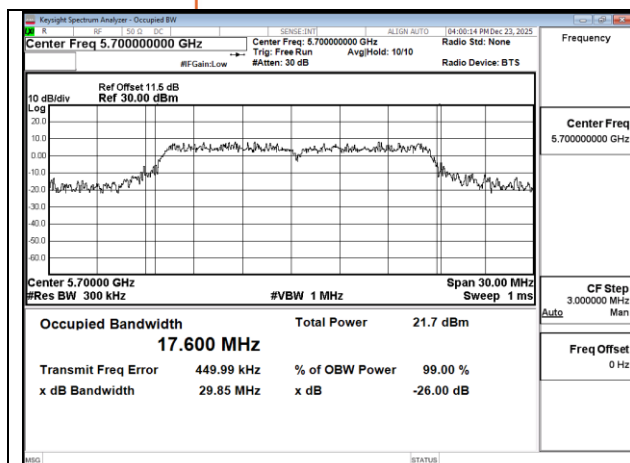


802.11n 20MHz Chain1 5600MHz

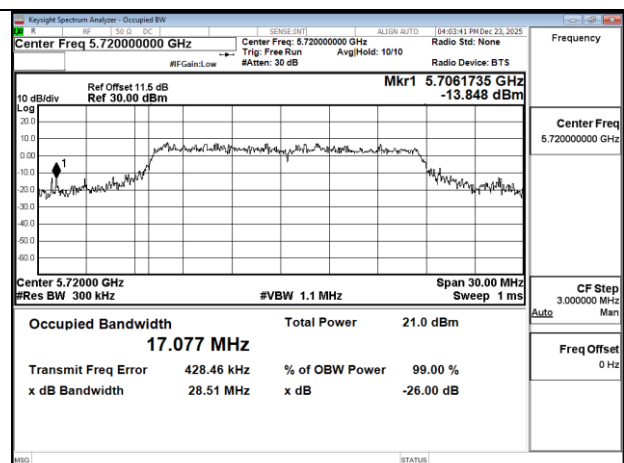
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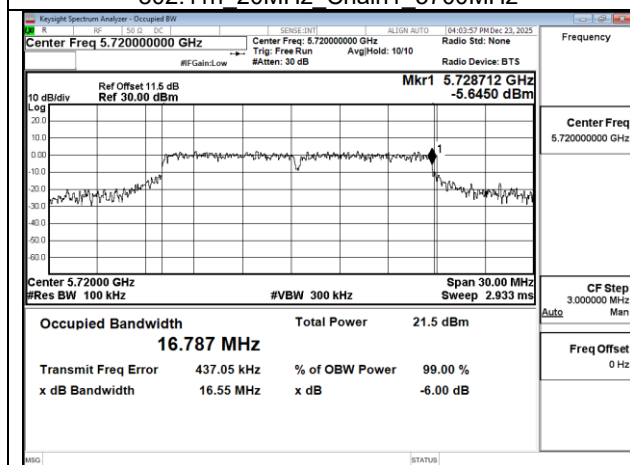
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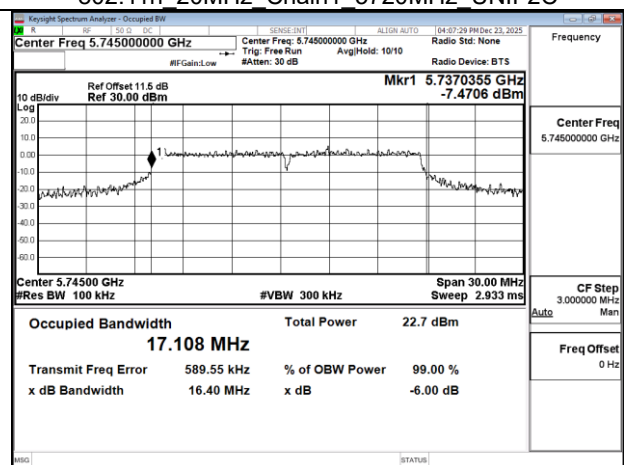
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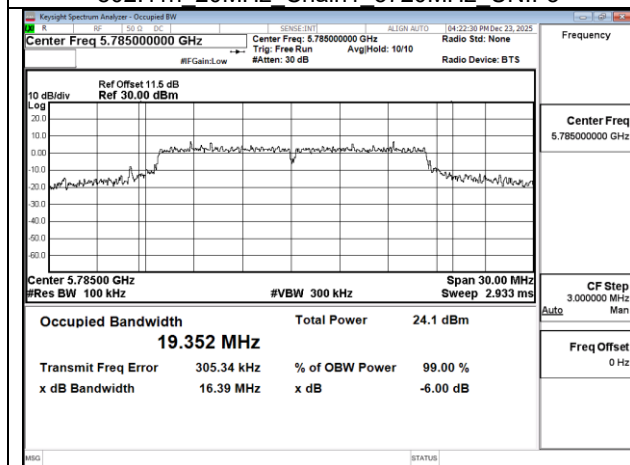
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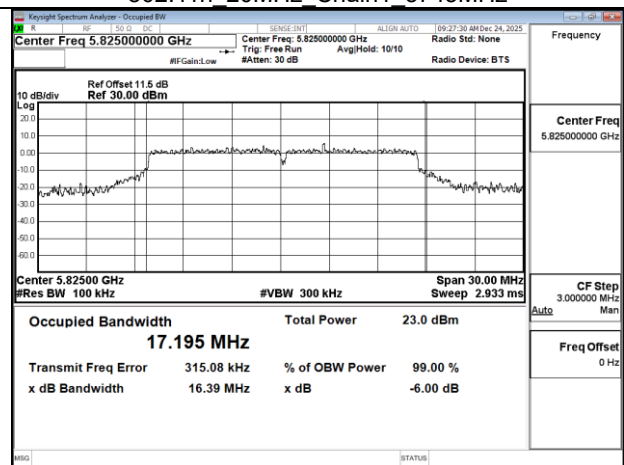
802.11n 20MHz Chain1 5720MHz UNII-3



802.11n 20MHz Chain1 5745MHz



802.11n 20MHz Chain1 5785MHz



802.11n 20MHz Chain1 5825MHz

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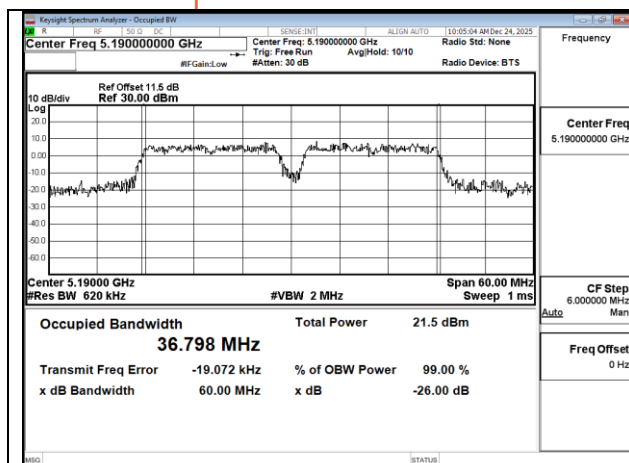
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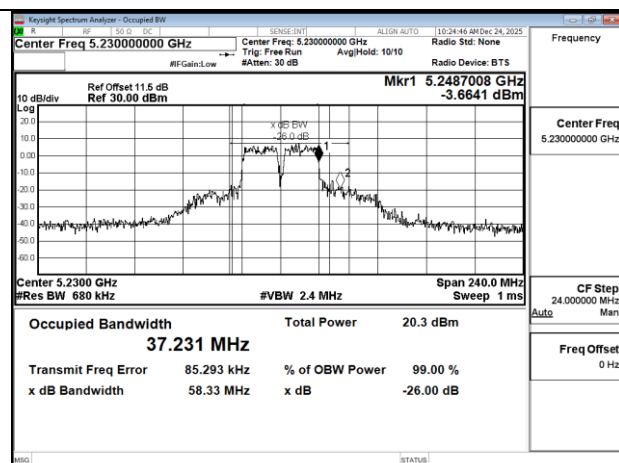
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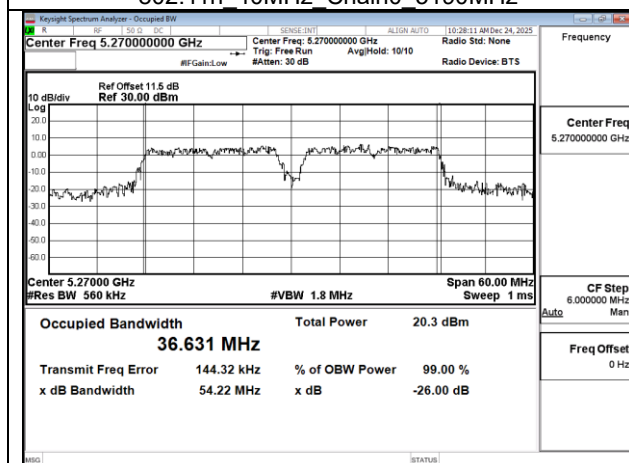
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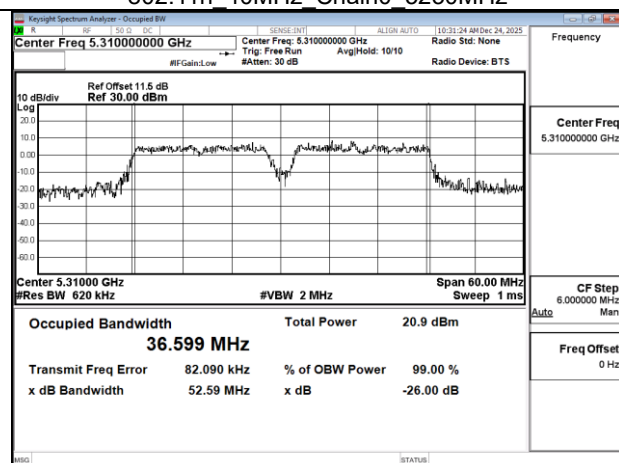
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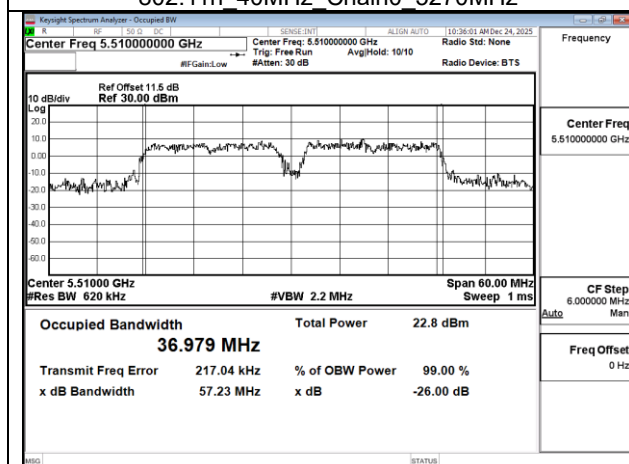
802.11n 40MHz Chain0 5230MHz



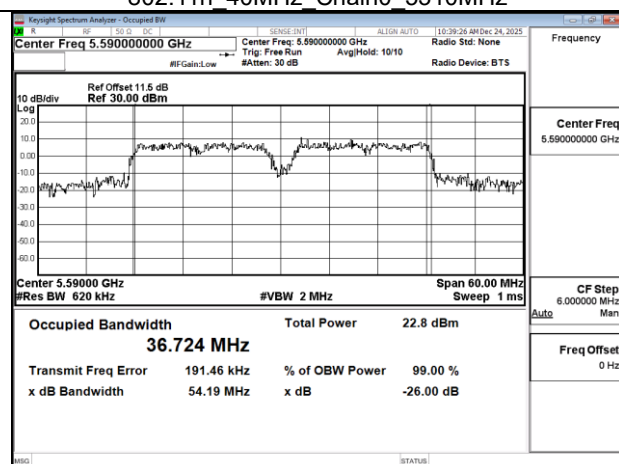
802.11n 40MHz Chain0 5270MHz



802.11n 40MHz Chain0 5310MHz



802.11n 40MHz Chain0 5510MHz



802.11n 40MHz Chain0 5590MHz

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