

FCC RADIO TEST REPORT

Applicant..... : Abbingdon Global Limited

Address..... : 79 SCARISBRICK NEW ROAD SOUTHPORT ENGLAND PR&8 6LJ

Manufacturer..... : Abbingdon Global Limited

Address..... : 79 SCARISBRICK NEW ROAD SOUTHPORT ENGLAND PR&8 6LJ

Factory..... : Abbingdon Global Limited

Address..... : 79 SCARISBRICK NEW ROAD SOUTHPORT ENGLAND PR&8 6LJ

Product Name..... : Professional decoder

Brand Name..... : iFi

Model No. : iDSD PHANTOM

FCC ID..... : 2A5QJIDSDPHANTOM

Measurement Standard.... : 47 CFR FCC PART 15 Subpart E (section 407)

Receipt Date of Samples.... : November 06, 2025

Date of Tested..... : November 06, 2025 to May 21, 2026

Date of Report..... : June 04, 2026

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by

Jenny Liu / Project Engineer



Approved by

Iori Fan / Authorized Signatory

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Revision History

[illegible]

1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Conducted Emission	PASS	---
§15.407(a)	Max. Conducted Output Power	PASS	---
§15.407(a)	26dB Spectrum Bandwidth and 99% Occupied Bandwidth	PASS	---
§15.407(e)	6dB Bandwidth	PASS	---
§15.407(a)	Power Spectral Density	PASS	---
§15.407(b) §15.205	Radiated Emissions	PASS	---
§15.407(b)	Band Edge Emissions	PASS	---
§15.407(g)	Frequency Stability	PASS	---
§15.203	Antenna Requirement	PASS	---
§15.407(h)	Dynamic Frequency Selection	PASS	---

2. General Description of EUT

Product Information	
Product Name:	Professional decoder
Main Model Name:	iDSD PHANTOM
Additional Model Name:	N/A
Model difference:	N/A
S/N:	2511-7042
Brand Name:	iFi
Hardware Version:	Not stated
Software Version:	Not stated
Rating:	DC Port: DC 15V 3.5A
Typical Arrangement:	Tabletop
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	Manufacturer: Powertron Technology Co., Ltd. M/N: LN-1550 Input: AC 100-240V 50/60Hz, 1.5A Output: DC 15V 3.5A
Cable:	Power cord: 1.50m, unshielded, undetachable, with a ferrite core
Other:	Remote*1
Additional Information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification	
Frequency Range:	5180-5240MHz 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
Modulation Technology:	DSSS, OFDM
Modulation Type:	BPSK, QPSK for 802.11a 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for 802.11n/ac
Number of Channel:	U-NII-1, U-NII-2A: 4 Channel for 802.11a/n(HT20)/ac(VHT20) 2 Channel for 802.11n(HT40)/ac(VHT40) 1 Channel for 802.11ac(VHT80) U-NII-2C: 11 Channel for 802.11a/n(HT20)/ac(VHT20) 5 Channel for 802.11n(HT40)/ac(VHT40) 2 Channel for 802.11ac(VHT80) U-NII-3: 5 Channel for 802.11a/n(HT20)/ac(VHT20) 2 Channel for 802.11n(HT40)/ac(VHT40) 1 Channel for 802.11ac(VHT80)
Antenna Type:	Dipole antenna
Number of Antenna:	1
Antenna Gain:	4.64 dBi (Declared by the manufacturer)
Beamforming Gain:	Not support
Type:	Client without Radar detection.
Note: This report only replies to 5G WIFI feature of the EUT.	

Channel List					
U-NII-1 Band 5180~5240MHz					
IEEE 802.11a/n(HT20)/ac(VHT20)		IEEE 802.11n(HT40)/ac(VHT40)		IEEE 802.11 ac (VHT80)	
Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency MHz
36	5180	38	5190	42	5210
40	5200	46	5230	-	-
44	5220	-	-	-	-
48	5240	-	-	-	-
U-NII-2A Band 5260-5320MHz					
52	5260	54	5270	58	5290
56	5280	62	5310	-	-
60	5300	-	-	-	-
64	5320	-	-	-	-
U-NII-2C Band 5500-5700MHz					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	-	-
112	5560	126	5630	-	-
116	5580	134	5670	-	-
132	5660	-	-	-	-
136	5680	-	-	-	-
140	5700	-	-	-	-

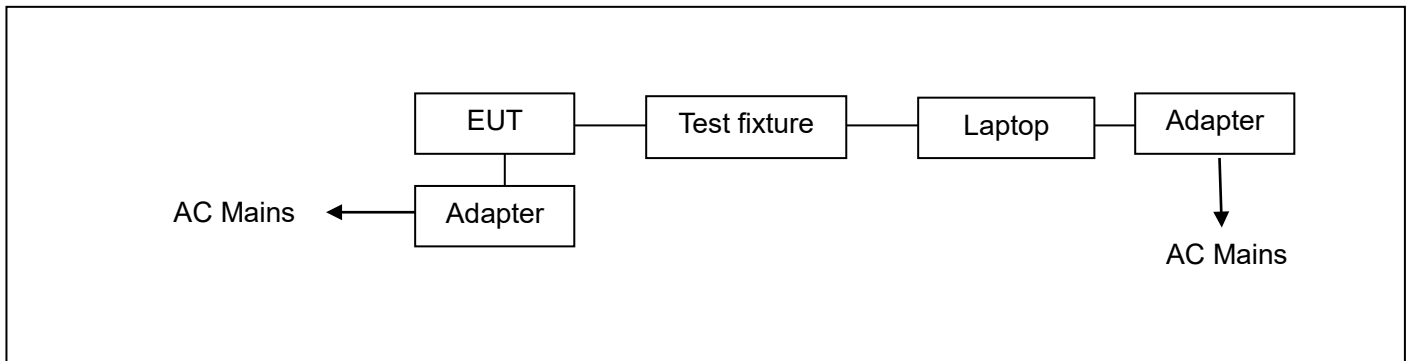
U-NII-3 Band 5745~5825MHz					
IEEE 802.11a/n(HT20)/ac(VHT20)		IEEE 802.11n(HT40)/ac(VHT40)		IEEE 802.11 ac (VHT80)	
Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency MHz
149	5745	151	5755	155	5775
153	5765	159	5795	-	-
157	5785	-	-		
161	5805	-	-		
165	5825	-	-		

3. Test Channels and Modes Detail

No.	Mode	Channel	Frequency (MHz)	Remark
1	TX	36	5180	IEEE 802.11a/n(HT20)/ac(HT20)
		40	5200	IEEE 802.11a/n(HT20)/ac(HT20)
		48	5240	IEEE 802.11a/n(HT20) /ac(HT20)
		52	5260	IEEE 802.11a/n(HT20) /ac(HT20)
		60	5300	IEEE 802.11a/n(HT20) /ac(HT20)
		64	5320	IEEE 802.11a/n(HT20) /ac(HT20)
		100	5500	IEEE 802.11a/n(HT20) /ac(HT20)
		116	5580	IEEE 802.11a/n(HT20) /ac(HT20)
		140	5700	IEEE 802.11a/n(HT20) /ac(HT20)
		149	5745	IEEE 802.11a/n(HT20) /ac(HT20)
		157	5785	IEEE 802.11a/n(HT20) /ac(HT20)
		165	5825	IEEE 802.11a/n(HT20) /ac(HT20)
		38	5190	IEEE 802.11n(HT40) /ac(VHT40)
		46	5230	IEEE 802.11n(HT40) /ac(VHT40)
		54	5270	IEEE 802.11n(HT40) /ac(VHT40)
		62	5310	IEEE 802.11n(HT40) /ac(VHT40)
		102	5510	IEEE 802.11n(HT40) /ac(VHT40)
		134	5670	IEEE 802.11n(HT40) /ac(VHT40)
		151	5755	IEEE 802.11n(HT40) /ac(VHT40)
		159	5795	IEEE 802.11n(HT40) /ac(VHT40)
		42	5210	IEEE 802.11ac(VHT80)
		58	5290	IEEE 802.11ac(VHT80)
		106	5530	IEEE 802.11ac(VHT80)
		122	5610	IEEE 802.11ac(VHT80)
		155	5775	IEEE 802.11ac(VHT80)
2.	Normal Mode	---	---	---

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Brand	M/N	S/N	Specification	Remarks
1.	Laptop	DELL	TP00067 A	PF-0DS3YC 15/12	I/P: AC 100-240V 50-60Hz, 1.8A O/P: DC 20V 3.25A AC Line: 1.10m unshielded DC Line: 1.15m unshielded with a core	Provide by the Lab
2.	Power supply (Laptop)	DELL	ADLX65 NLC3A	N/A		Provide by the Lab
3.	Test fixture	---	---	---	----	Provide by the manufacturer
4.	Router	LINKSYS	WRT320 0ACM	060A621419	FCC ID: Q87-WRT3200ACM IC: 3839A-WRT3200ACM	Provided by the Lab
5.	Adapter (for router)	LINKSYS	Mu42-31 20300-A1	2A5C142	1.50m unshielded	Input: AC 100-240V 50/60Hz 1.5A Output: DC 12V 3A

No.	Test Software	Modulation	Power Setting			
			5150-5250	5250-5350	5350-5725	5725-5850
1.	PuTTY	IEEE 802.11a	43	47	47	63
2.		IEEE 802.11n(HT20)	43	44	45	63
3.		IEEE 802.11ac(VHT20)	43	34	40	63
4.		IEEE 802.11n(HT40)	36	45	44	63
5.		IEEE 802.11ac(VHT40)	36	31	30	63
6.		IEEE 802.11ac(VHT80)	36	29	37	63

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2027 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by ISED, June 08, 2017 The Certificate Registration Number. Is 46405-9743A The CAB identifier number: CN0015
Test Site Location	:	Room 101, 1101, Building 2, No. 61, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdong, People's Republic of China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart E, 15.407

ANSI C63.10-2020+Cor 1- 2023

References Test Guidance:

KDB 789033 D02 v02r01

KDB 905462 D03 v01r02

KDB 905462 D02 v02

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission	1-2	AC 120V 60Hz	Chance	See note 1
2.	Max. Conducted Output Power	1	AC 120V 60Hz	Chance	See note 1
3.	26dB Spectrum Bandwidth and 99% Occupied Bandwidth	1	AC 120V 60Hz	Chance	See note 1
4.	6dB Bandwidth	1	AC 120V 60Hz	Chance	See note 1
5.	Power Spectral Density	1	AC 120V 60Hz	Chance	See note 1
6.	Radiated Emissions	1, 2	AC 120V 60Hz	Chance	See note 1,3
7.	Band Edge Emissions	1	AC 120V 60Hz	Chance	See note 1
8.	Frequency Stability	1	AC 120V 60Hz	Chance	See note 1
9.	Antenna Requirement	---	---	---	---
10.	Dynamic Frequency Selection	1	AC 120V 60Hz	Chance	See note 1

Note:

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35℃, 30~70%, 86~106kPa
2. For test voltage AC 120V 60Hz come from adapter, only the worst case was recorded in the report.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.46 dB	---
2.	Radiated Emission Test	9kHz ~ 30MHz	±5.63 dB	---
		30MHz ~ 1GHz	±5.63 dB	---
		1GHz ~ 18GHz	±5.16 dB	---
		18GHz ~ 40GHz	±5.16 dB	---
3.	Conducted Spurious Emissions	10Hz ~ 40GHz	±1.06 dB	---
4.	RF Output Power	10Hz ~ 40GHz	±1.08 dB	---
5.	Power Spectral Density	10Hz ~ 40GHz	±1.08 dB	---
6.	Occupied Channel Bandwidth	---	±1.05%	---
7.	Time	---	±5%	---
8.	Radio Frequency	---	0.8*10 ⁻⁷	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.1900	30.10	10.60	40.70	79.00	-38.30	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver reading Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation Measurement = Reading + Corrector Factor Limit = Limit stated in standard Margin = Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Radiated Spurious Emissions and Restricted Bands						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
60.0700	45.88	-18.38	27.50	49.00	-21.50	QP
Where, Freq. = Emission frequency in MHz Reading Level = Spectrum Analyzer/Receiver reading Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier Measurement = Reading + Corrector Factor Limit = Limit stated in standard Over = Margin, which calculated by Measurement - Limit Detector = Reading for Quasi-Peak / Average / Peak						

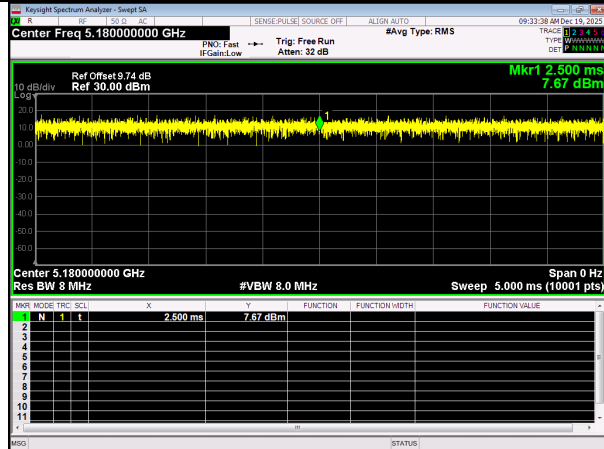
Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Duty cycle

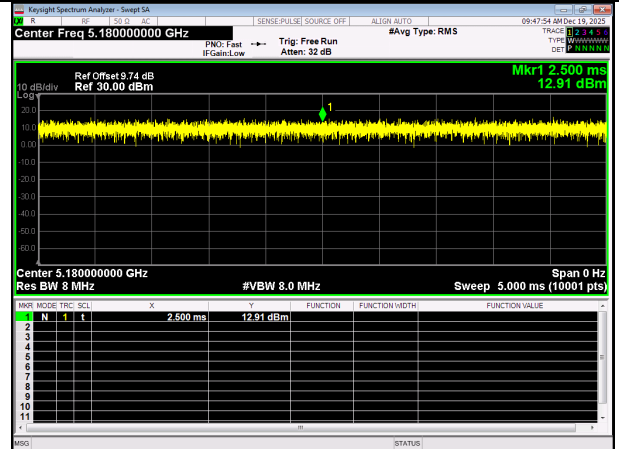
Operation Band (MHz)	Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T minimum VBW (kHz)	Duty Cycle Factor (dB)
U-NII-1	802.11a	/	/	100	0	0
	802.11n(HT20)	/	/	100	0	0
	802.11n(HT40)	/	/	100	0	0
	802.11ac(VHT20)	/	/	100	0	0
	802.11ac(VHT40)	/	/	100	0	0
	802.11ac(VHT80)	/	/	100	0	0
U-NII-2A	802.11a	/	/	100	0	0
	802.11n(HT20)	/	/	100	0	0
	802.11n(HT40)	/	/	100	0	0
	802.11ac(VHT20)	/	/	100	0	0
	802.11ac(VHT40)	/	/	100	0	0
	802.11ac(VHT80)	/	/	100	0	0
U-NII-2C	802.11a	/	/	100	0	0
	802.11n(HT20)	/	/	100	0	0
	802.11n(HT40)	/	/	100	0	0
	802.11ac(VHT20)	/	/	100	0	0
	802.11ac(VHT40)	/	/	100	0	0
	802.11ac(VHT80)	/	/	100	0	0
U-NII-3	802.11a	/	/	100	0	0
	802.11n(HT20)	/	/	100	0	0
	802.11n(HT40)	/	/	100	0	0
	802.11ac(VHT20)	/	/	100	0	0
	802.11ac(VHT40)	/	/	100	0	0
	802.11ac(VHT80)	/	/	100	0	0
Remark: Duty Cycle= (Ton/ Ton+off)*100% Duty Cycle factor=10*log(1/ Duty cycle)						

U-NII-1 Band

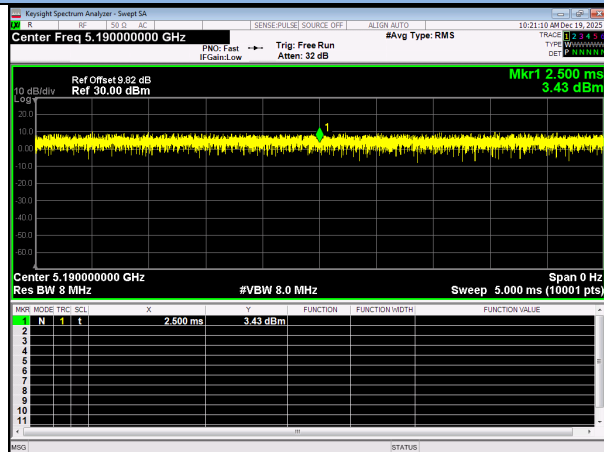
IEEE 802.11a



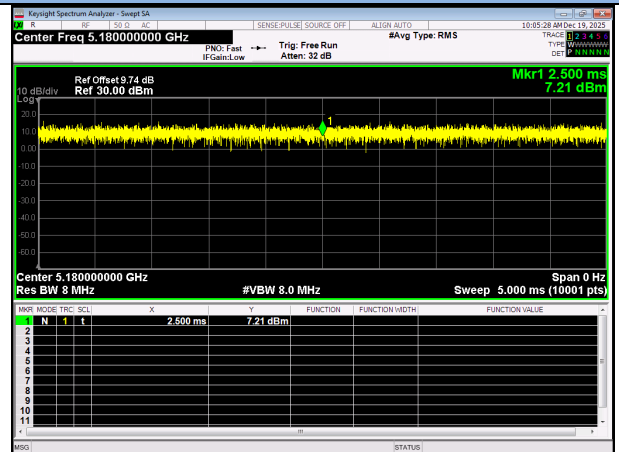
IEEE 802.11n(HT20)



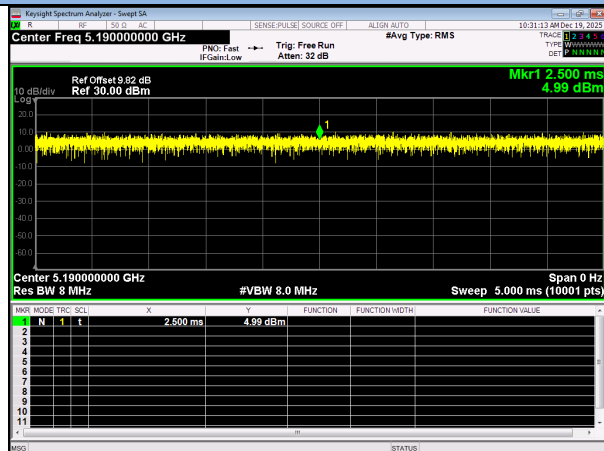
IEEE 802.11n(HT40)



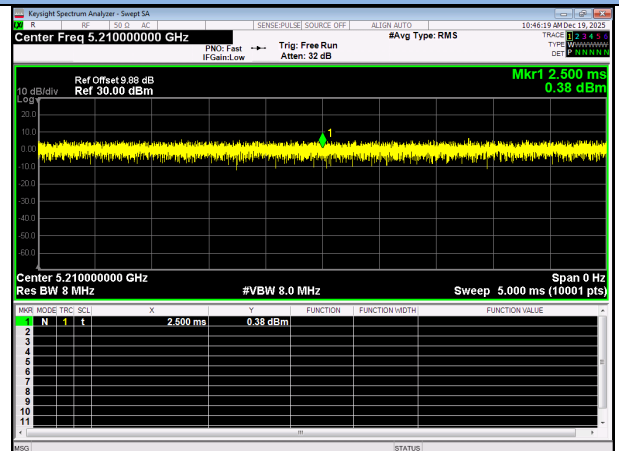
IEEE 802.11ac(VHT20)



IEEE 802.11ac(VHT40)

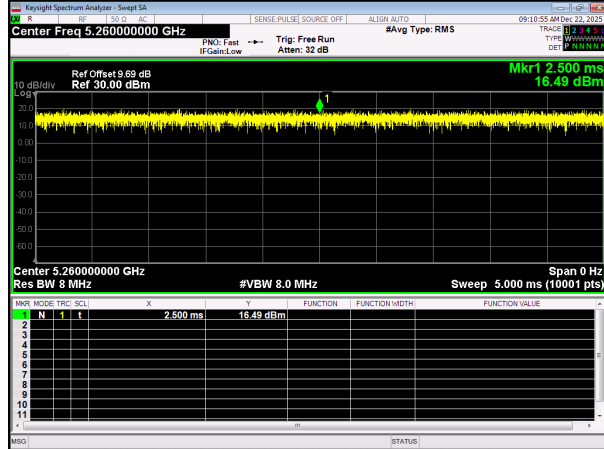


IEEE 802.11ac(VHT80)

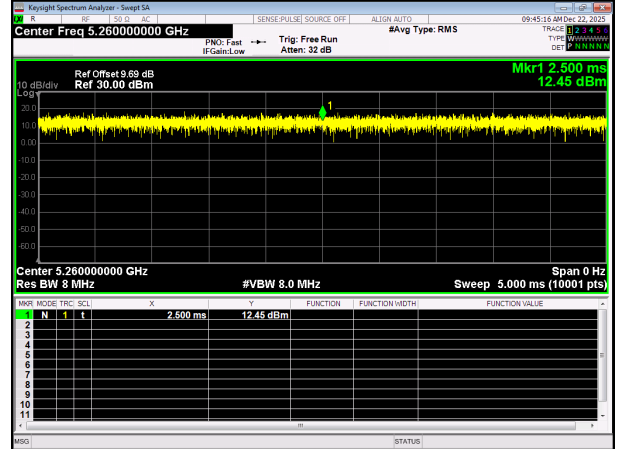


U-NII-2A Band

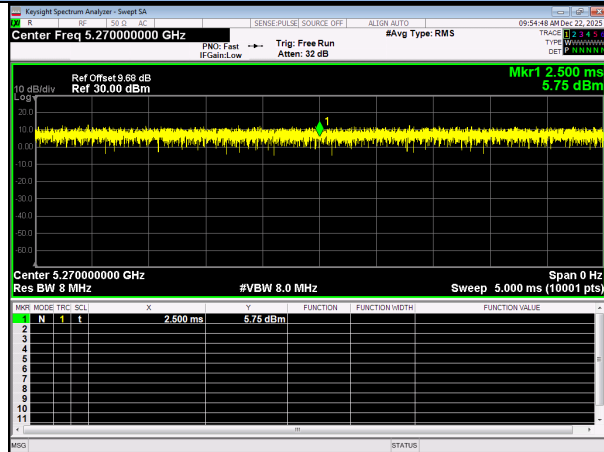
IEEE 802.11a



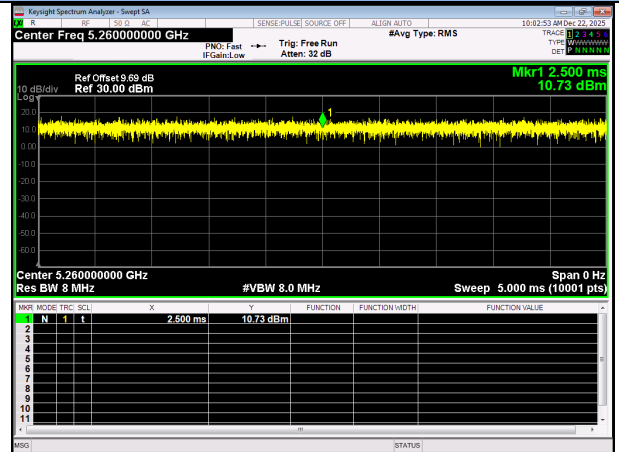
IEEE 802.11n(HT20)



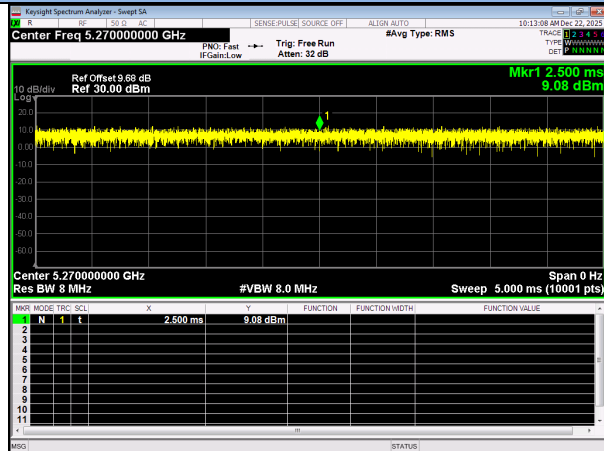
IEEE 802.11n(HT40)



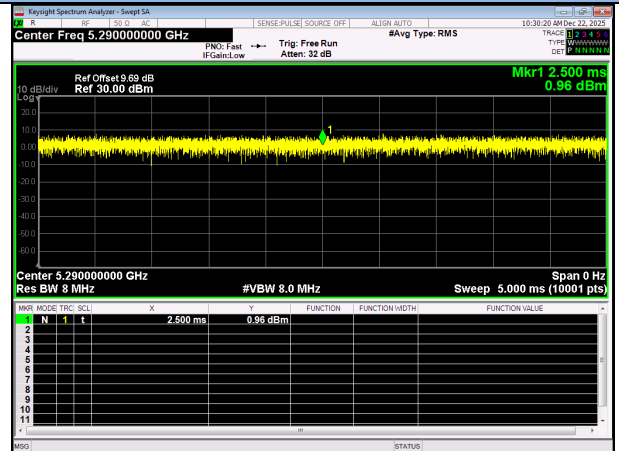
IEEE 802.11ac(VHT20)



IEEE 802.11ac(VHT40)

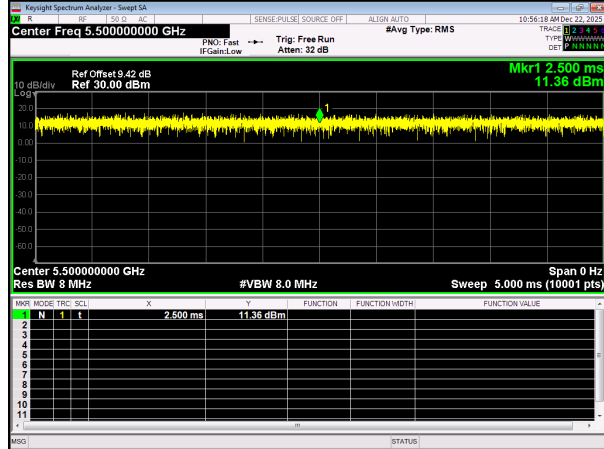


IEEE 802.11ac(VHT80)

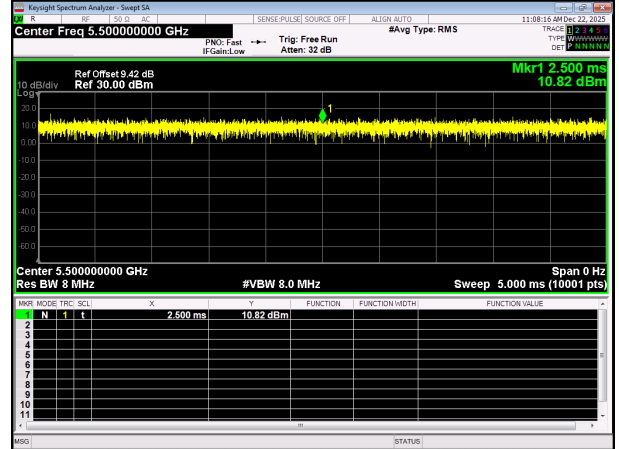


U-NII-2C Band

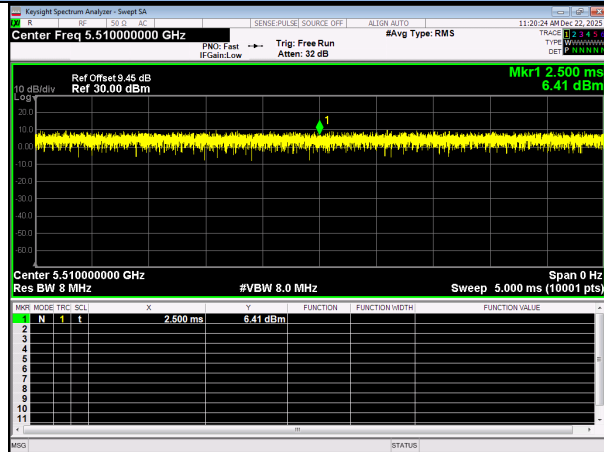
IEEE 802.11a



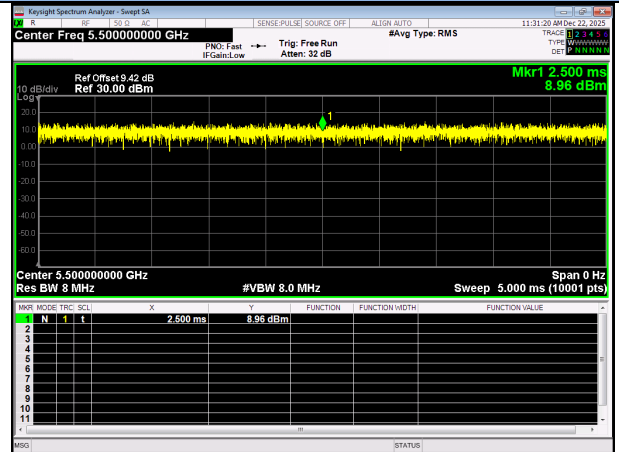
IEEE 802.11n(HT20)



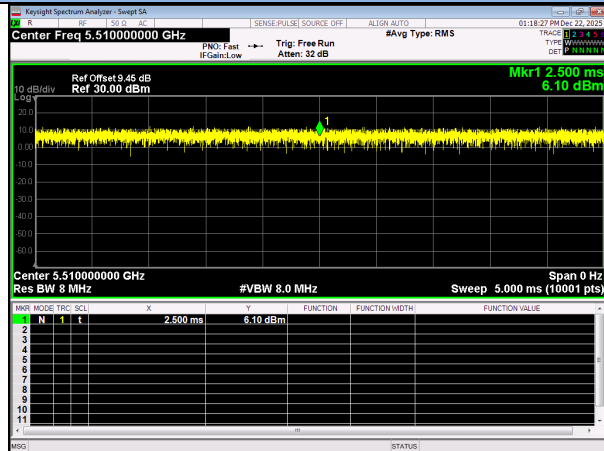
IEEE 802.11n(HT40)



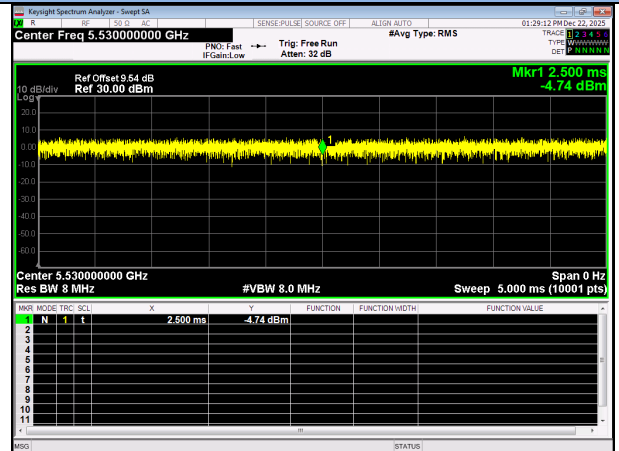
IEEE 802.11ac(VHT20)



IEEE 802.11ac(VHT40)

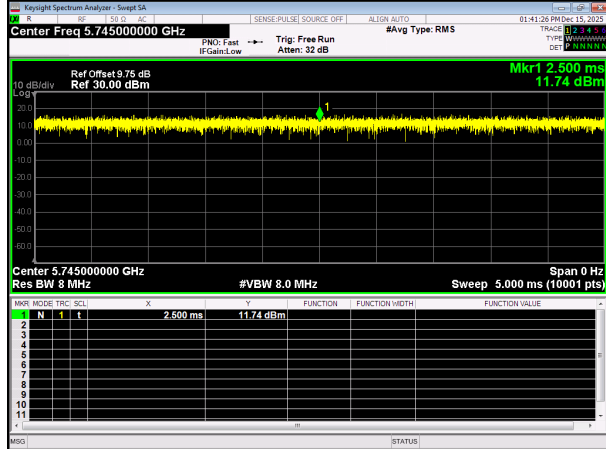


IEEE 802.11ac(VHT80)

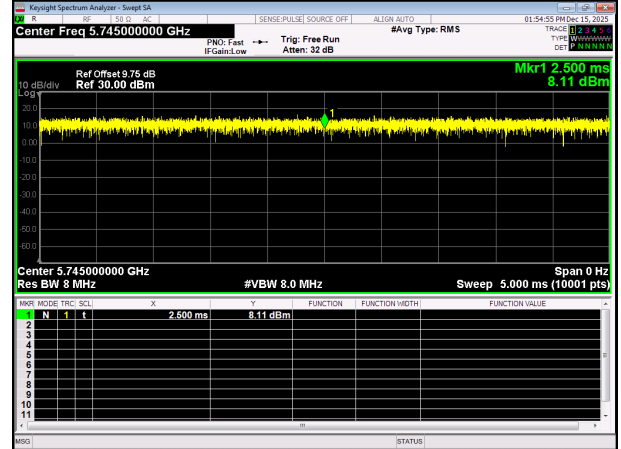


U-NII-3 Band

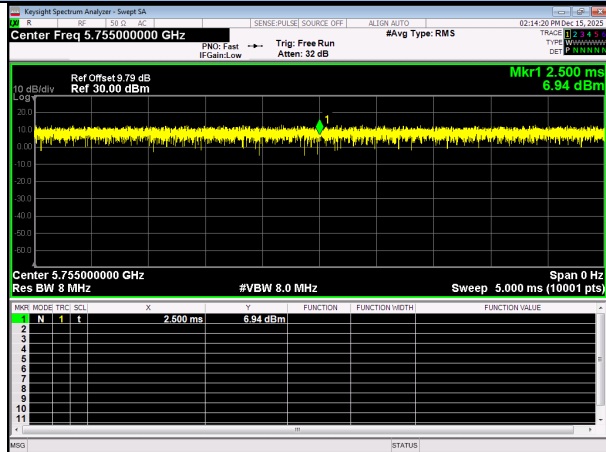
IEEE 802.11a



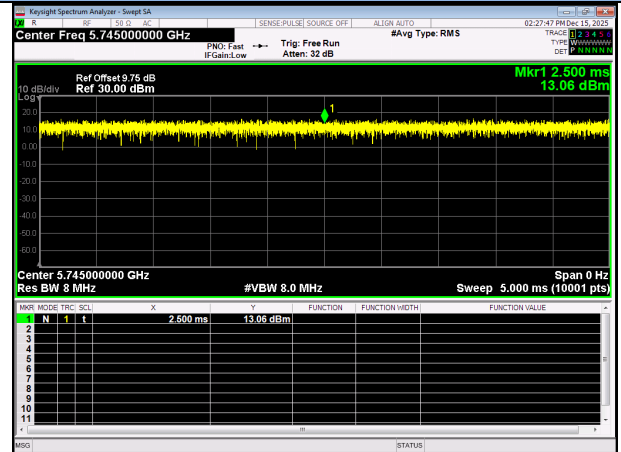
IEEE 802.11n(HT20)



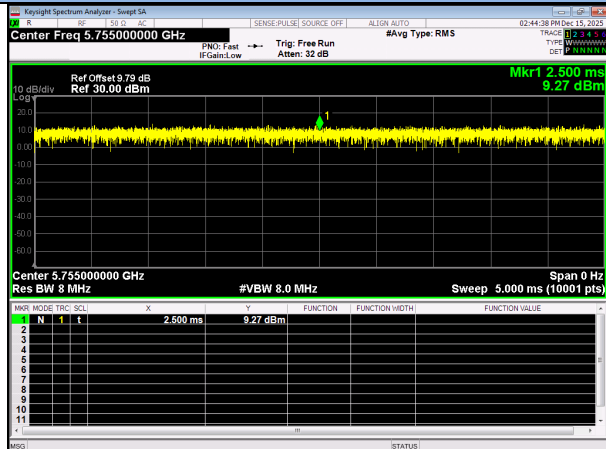
IEEE 802.11n(HT40)



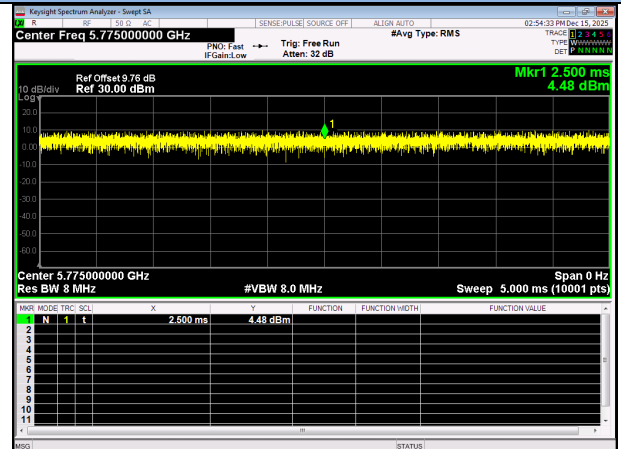
IEEE 802.11ac(VHT20)



IEEE 802.11ac(VHT40)



IEEE 802.11ac(VHT80)



14. Test Items and Results

14.1 Conducted Emissions Measurement

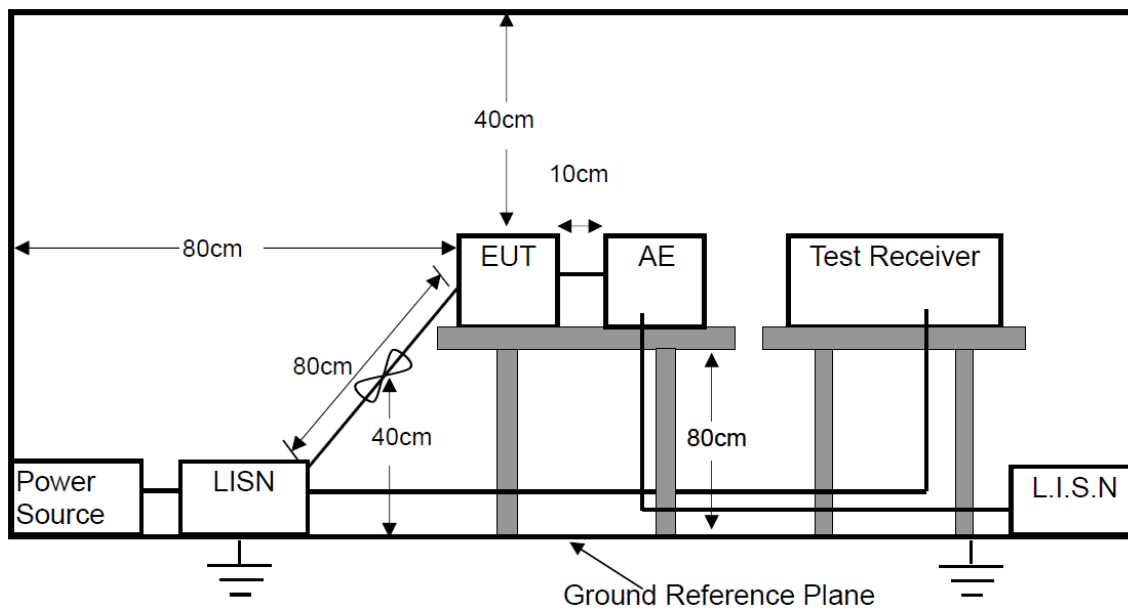
LIMITS

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

- Note:
1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

PASS

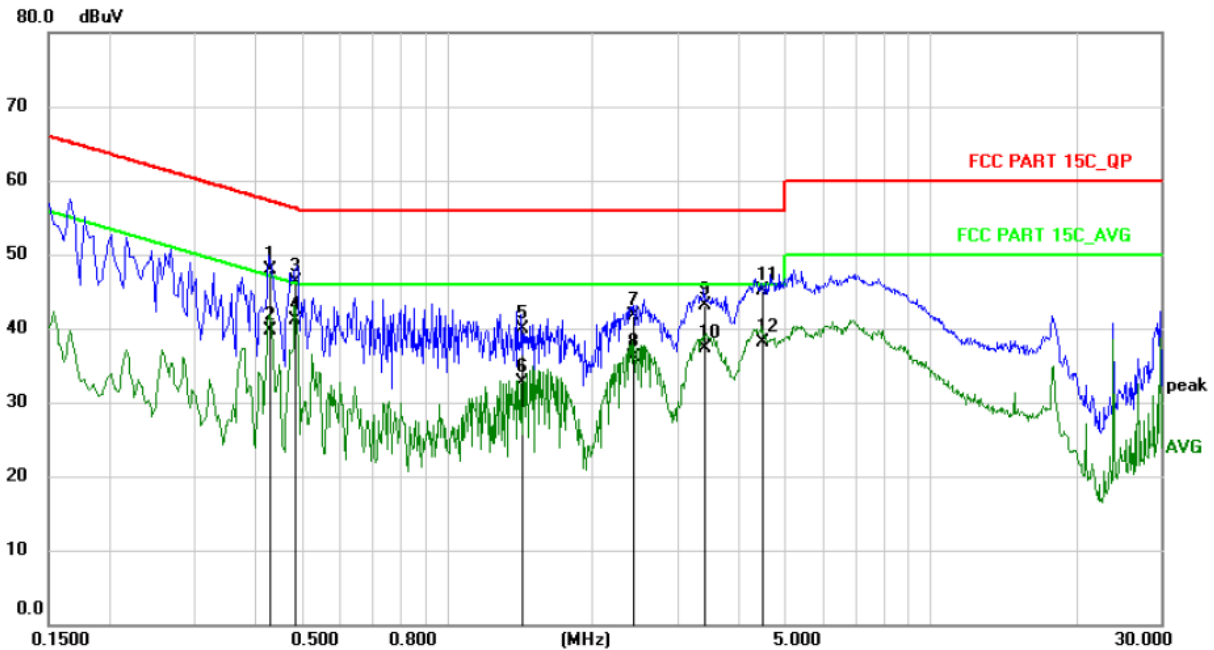
Please refer to the following pages.

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Phase: L1	Detector: QP & AVG
Test Mode: 2	

Conducted Emission Measurement

Date: 2026/5/27

Time: 14:21:57



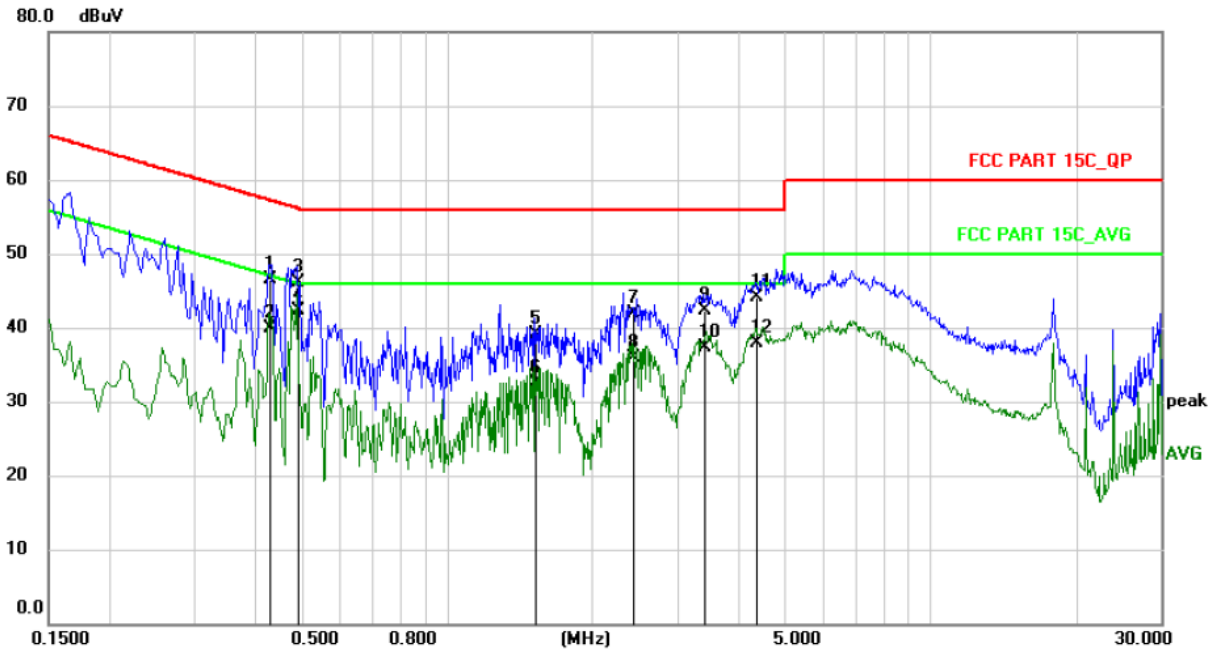
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.4300	28.15	19.75	47.90	57.25	-9.35	QP	
2	0.4300	20.05	19.75	39.80	47.25	-7.45	AVG	
3	0.4860	26.65	19.75	46.40	56.24	-9.84	QP	
4 *	0.4860	21.35	19.75	41.10	46.24	-5.14	AVG	
5	1.4299	20.19	19.71	39.90	56.00	-16.10	QP	
6	1.4299	13.09	19.71	32.80	46.00	-13.20	AVG	
7	2.4260	22.08	19.72	41.80	56.00	-14.20	QP	
8	2.4260	16.48	19.72	36.20	46.00	-9.80	AVG	
9	3.4020	23.46	19.74	43.20	56.00	-12.80	QP	
10	3.4020	17.56	19.74	37.30	46.00	-8.70	AVG	
11	4.4779	25.46	19.74	45.20	56.00	-10.80	QP	
12	4.4779	18.46	19.74	38.20	46.00	-7.80	AVG	

M/N: iDSD PHANTOM	Testing Voltage: AC 120V / 60Hz
Phase: N	Detector: QP & AVG
Test Mode: 2	

Conducted Emission Measurement

Date: 2026/5/27

Time: 14:27:27



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.4300	26.79	19.71	46.50	57.25	-10.75	QP	
2	0.4300	20.19	19.71	39.90	47.25	-7.35	AVG	
3	0.4900	26.49	19.71	46.20	56.17	-9.97	QP	
4 *	0.4900	22.69	19.71	42.40	46.17	-3.77	AVG	
5	1.5260	19.53	19.67	39.20	56.00	-16.80	QP	
6	1.5260	12.93	19.67	32.60	46.00	-13.40	AVG	
7	2.4260	22.23	19.67	41.90	56.00	-14.10	QP	
8	2.4260	16.23	19.67	35.90	46.00	-10.10	AVG	
9	3.4020	22.70	19.70	42.40	56.00	-13.60	QP	
10	3.4020	17.70	19.70	37.40	46.00	-8.60	AVG	
11	4.3419	24.49	19.71	44.20	56.00	-11.80	QP	
12	4.3419	18.19	19.71	37.90	46.00	-8.10	AVG	

14.2 Maximum Conducted Output Power Measurement

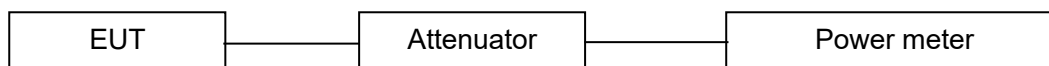
LIMITS

Operation Band	EUT category	Limit
☒5180~5240MHz	☐ Outdoor Access Point	1 Watt (30dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access Point	1 Watt (30dBm)
	☐ Indoor Access Point	1 Watt (30dBm) ^{see note 1}
	☒Mobile and Portable client device	250mW (24dBm) ^{see note 2}
☒5260~5320MHz	-	250mW (24dBm) or $(11+10\log10B^*)$ dBm whichever power is less.
☒5500~5700MHz	-	250mW (24dBm) or $(11+10\log10B^*)$ dBm whichever power is less.
☒5745~5825MHz	-	1 Watt (30dBm)

Note:

- For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional the antenna exceeds 6 dBi.
- For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- *Where B is the -26db emission bandwidth in megahertz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB789033 v02r01 for compliance testing of Unlicensed National Information Infrastructure (U-NII) Device -section (E) Maximum conducted output power.
3. Measurement using a power meter (PM) =b Method PM-G (Measurement using a gated RF average power meter).

TEST RESULTS

PASS

Please refer to the following tables.

U-NII-1			
Frequency MHz	Data Rate Mbps	Average Output Power dBm	Limit dBm
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5180	6	10.157	24.00
Channel: 5200	6	10.600	24.00
Channel: 5240	6	11.986	24.00
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5180	MCS0	9.388	24.00
Channel: 5200	MCS0	9.966	24.00
Channel: 5240	MCS0	11.577	24.00
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5190	MCS0	6.170	24.00
Channel: 5230	MCS0	8.245	24.00
IEEE 802.11ac (VHT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5180	MCS0	9.160	24.00
Channel: 5200	MCS0	9.211	24.00
Channel: 5240	MCS0	11.248	24.00
IEEE 802.11ac (VHT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5190	MCS0	6.392	24.00
Channel: 5230	MCS0	8.232	24.00
IEEE 802.11ac (VHT80) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5210	MCS0	6.963	24.00
Note: Duty Cycle Factor was considered during the test.			

U-NII-2A			
Frequency MHz	Data Rate Mbps	Average Output Power dBm	Limit dBm
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5260	6	13.619	24.00
Channel: 5300	6	14.047	24.00
Channel: 5320	6	13.764	24.00
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5260	MCS 8	11.884	24.00
Channel: 5300	MCS 8	12.460	24.00
Channel: 5320	MCS 8	12.381	24.00
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5270	MCS 8	9.903	24.00
Channel: 5310	MCS 8	10.463	24.00
IEEE 802.11ac (VHT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5260	MCS 8	11.192	24.00
Channel: 5300	MCS 8	11.822	24.00
Channel: 5320	MCS 8	11.795	24.00
IEEE 802.11ac (VHT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5270	MCS 8	9.668	24.00
Channel: 5310	MCS 8	10.244	24.00
IEEE 802.11ac (VHT80) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5290	MCS 8	8.318	24.00
Note: Duty Cycle Factor was considered during the test.			

U-NII-2C			
Frequency MHz	Data Rate Mbps	Average Output Power dBm	Limit dBm
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5500	6	10.737	24.00
Channel: 5580	6	10.943	24.00
Channel: 5700	6	7.428	24.00
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5500	MCS 8	9.159	24.00
Channel: 5580	MCS 8	9.832	24.00
Channel: 5700	MCS 8	6.375	24.00
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5510	MCS 8	7.200	24.00
Channel: 5670	MCS 8	4.391	24.00
IEEE 802.11ac (VHT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5500	MCS 8	8.523	24.00
Channel: 5580	MCS 8	9.189	24.00
Channel: 5700	MCS 8	5.793	24.00
IEEE 802.11ac (VHT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5510	MCS 8	9.015	24.00
Channel: 5670	MCS 8	5.486	24.00
IEEE 802.11ac (VHT80) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5530	MCS 8	6.620	24.00
Channel: 5610	MCS 8	5.392	24.00
Note: Duty Cycle Factor was considered during the test.			

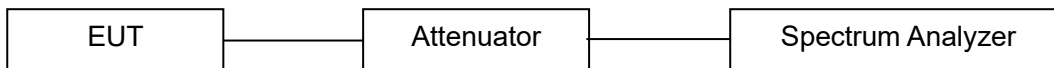
U-NII-3			
Frequency MHz	Data Rate Mbps	Average Output Power dBm	Limit dBm
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5745	6	11.526	30.00
Channel: 5785	6	12.344	30.00
Channel: 5825	6	11.804	30.00
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5745	MCS0	11.166	30.00
Channel: 5785	MCS0	11.940	30.00
Channel: 5825	MCS0	11.525	30.00
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5755	MCS0	11.039	30.00
Channel: 5795	MCS0	11.850	30.00
IEEE 802.11ac (VHT20) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5745	MCS0	11.178	30.00
Channel: 5785	MCS0	11.907	30.00
Channel: 5825	MCS0	11.503	30.00
IEEE 802.11ac (VHT40) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5755	MCS0	10.954	30.00
Channel: 5795	MCS0	11.731	30.00
IEEE 802.11ac (VHT80) Mode (OFDM, Antenna Gain=4.64dBi)			
Channel: 5775	MCS0	10.999	30.00
Note: Duty Cycle Factor was considered during the test.			

14.3 6dB Bandwidth Measurement

LIMITS

The minimum 6dB bandwidth shall be at least 500 kHz

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to ANSI C63.10 clause 11.8.1:

- Set the RBW = 100KHz.
- Set the VBW $\geq 3 \times$ RBW
- Set the Detector = peak.
- Set the Sweep time = auto couple.
- Set the Trace mode = max hold.
- Allow trace to fully stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST RESULTS

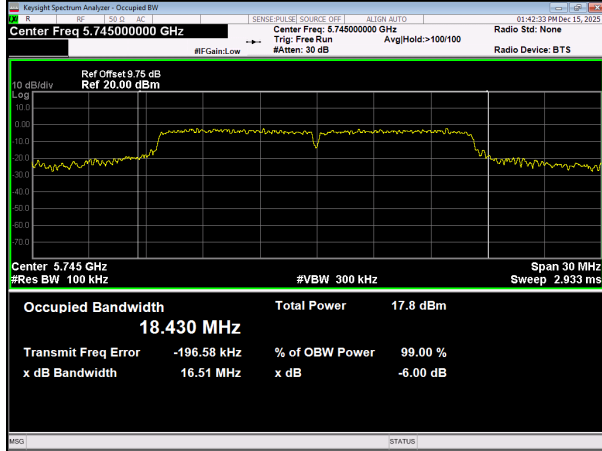
PASS

Please refer to the following tables.

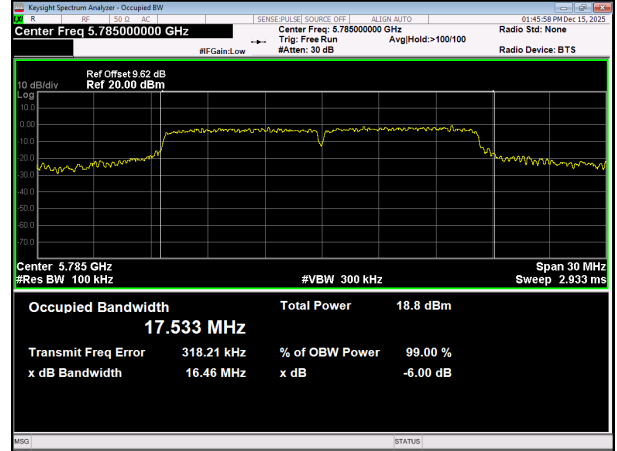
U-NII-3 Band			
Frequency MHz	Data Rate Mbps	6dB Bandwidth MHz	Limit
IEEE 802.11a Mode (OFDM)			
Channel: 5745	6	16.51	>500KHz
Channel: 5785	6	16.46	>500KHz
Channel: 5825	6	16.51	>500KHz
IEEE 802.11n(HT20) Mode (OFDM)			
Channel: 5745	MCS0	17.72	>500KHz
Channel: 5785	MCS0	17.70	>500KHz
Channel: 5825	MCS0	17.68	>500KHz
IEEE 802.11n(HT40) Mode (OFDM)			
Channel: 5755	MCS0	36.45	>500KHz
Channel: 5795	MCS0	36.38	>500KHz
IEEE 802.11ac (VHT20) Mode (OFDM)			
Channel: 5745	MCS0	17.75	>500KHz
Channel: 5785	MCS0	17.70	>500KHz
Channel: 5825	MCS0	17.72	>500KHz
IEEE 802.11ac (VHT40) Mode (OFDM)			
Channel: 5755	MCS0	36.48	>500KHz
Channel: 5795	MCS0	36.41	>500KHz
IEEE 802.11ac (VHT80) Mode (OFDM)			
Channel: 5775	MCS0	75.83	>500KHz

U-NII-3

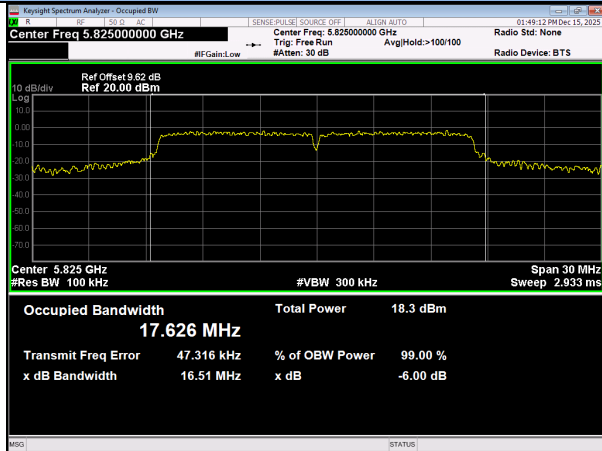
IEEE 802.11a Low Channel



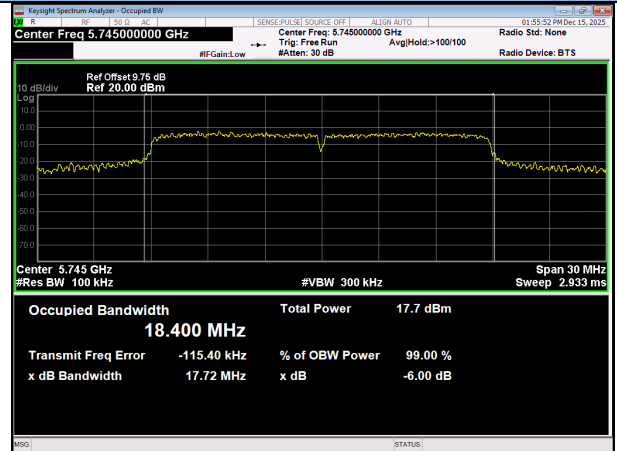
IEEE 802.11a Middle Channel



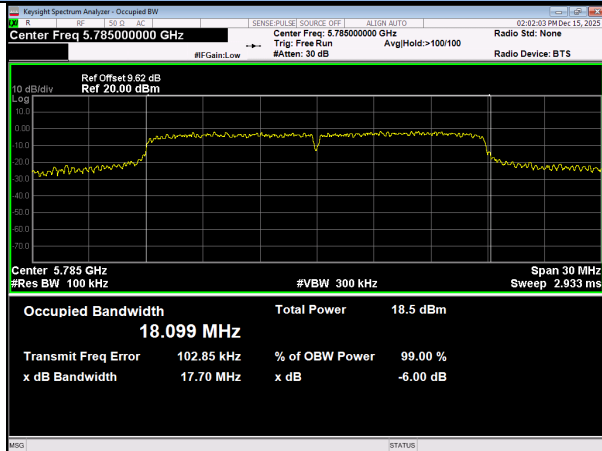
IEEE 802.11a High Channel



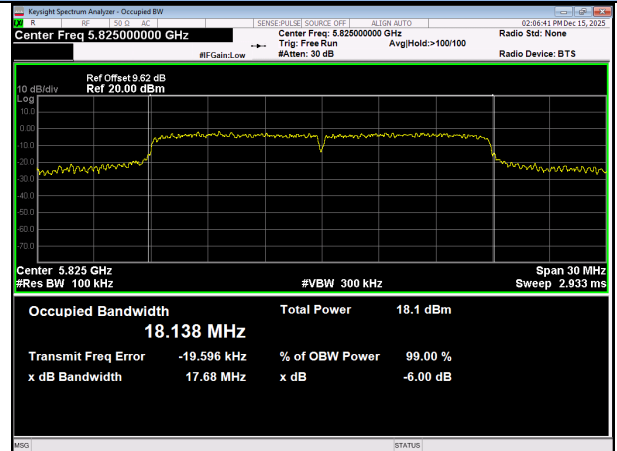
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

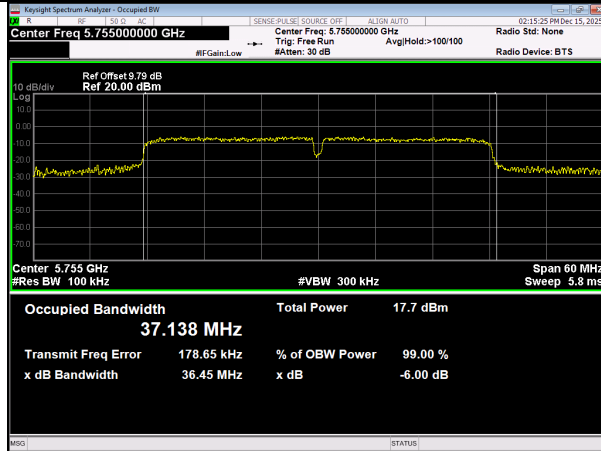


IEEE 802.11n(HT20) High Channel

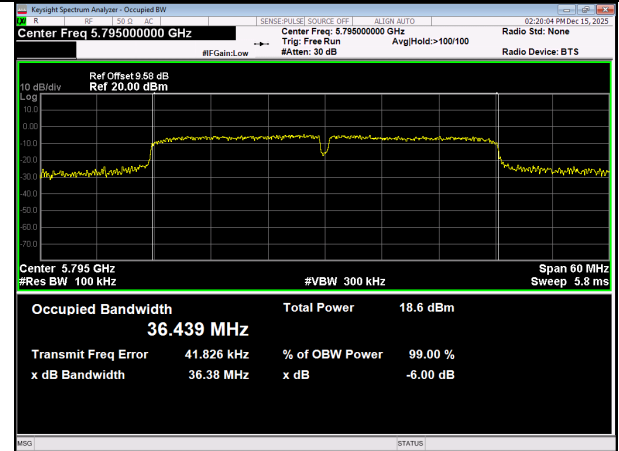


U-NII-3

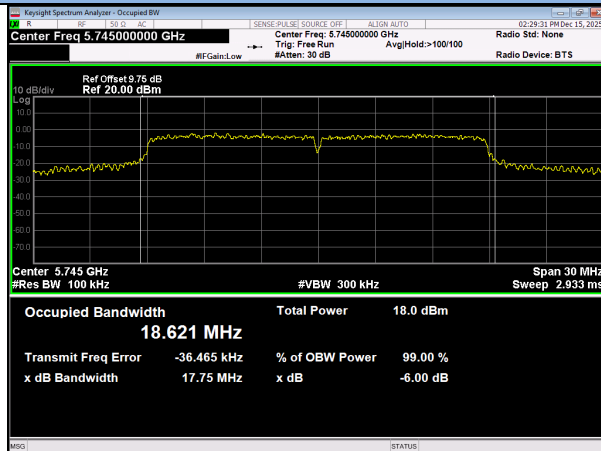
IEEE 802.11n(HT40) Low Channel



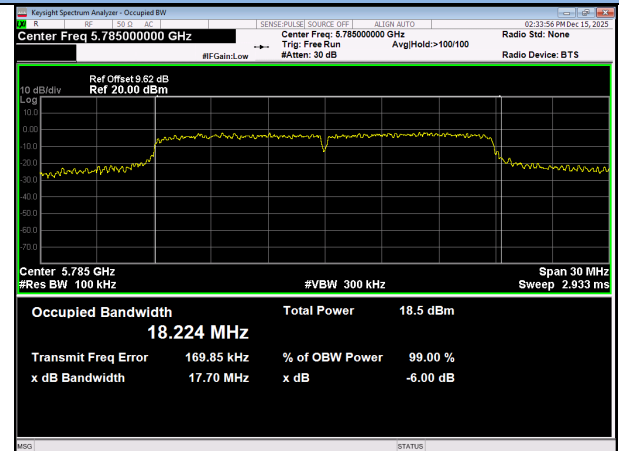
IEEE 802.11n(HT40) High Channel



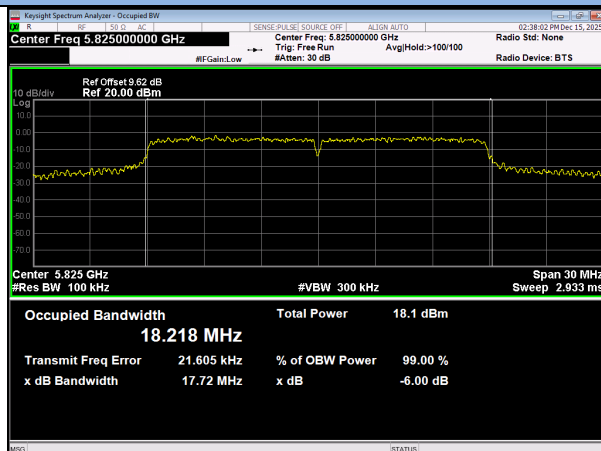
IEEE 802.11ac(VHT20) Low Channel



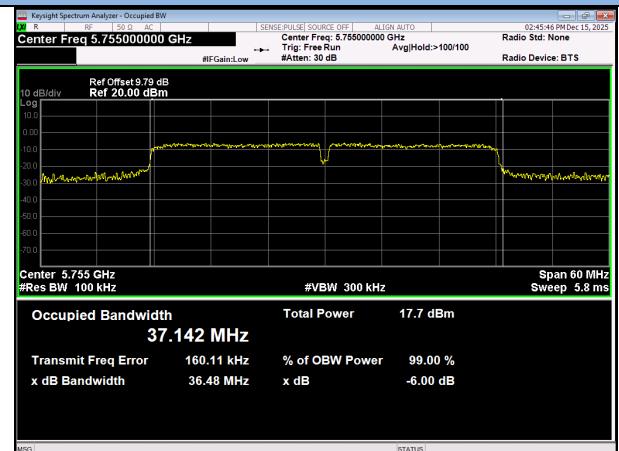
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel



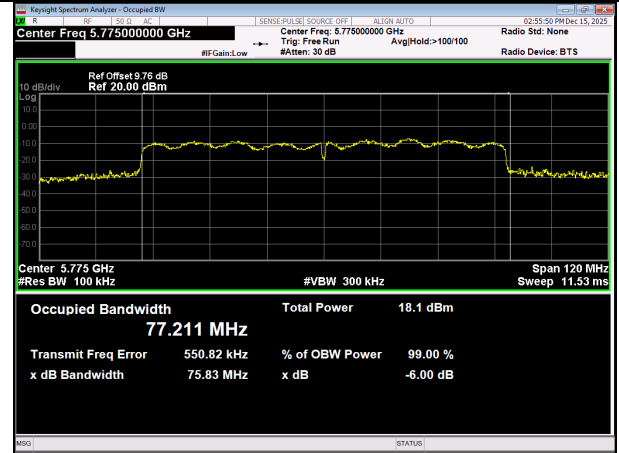
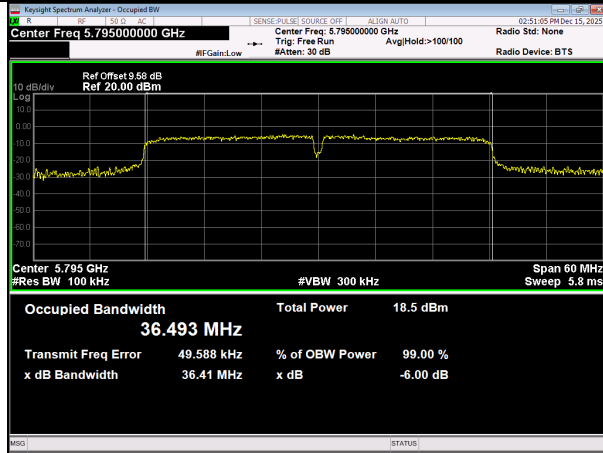
IEEE 802.11ac(VHT40) Low Channel



U-NII-3

IEEE 802.11ac(VHT40) High Channel

IEEE 802.11ac(VHT80)

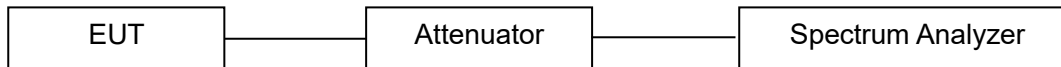


14.4 26dB Bandwidth & 99% Occupied Bandwidth

LIMITS

No restriction limits.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer.

Analyzer was set as below according to FCC KDB789033(v02r01):

- a. For 26dB bandwidth, Set the RBW = Approximately 1% of the emission bandwidth
 - b. Set the VBW $>$ RBW
 - c. Detector = peak.
 - d. Sweep time = auto couple.
 - e. Trace mode = max hold.
 - f. Allow trace to fully stabilize.
 - g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.
-
1. For 99% occupied bandwidth, Set the RBW = 1% to 5% of the OBW
 2. Set the VBW $\geq 3 \times$ RBW
 3. Detector = peak.
 4. Span = 1.5 times to 5.0 times the OBW
 5. Sweep time = auto couple.
 6. Trace mode = max hold. Allow trace to fully stabilize.
 7. Use the 99% power bandwidth function of the spectrum analyzer measure the occupied bandwidth.

TEST RESULTS

PASS

Please refer to the following tables.

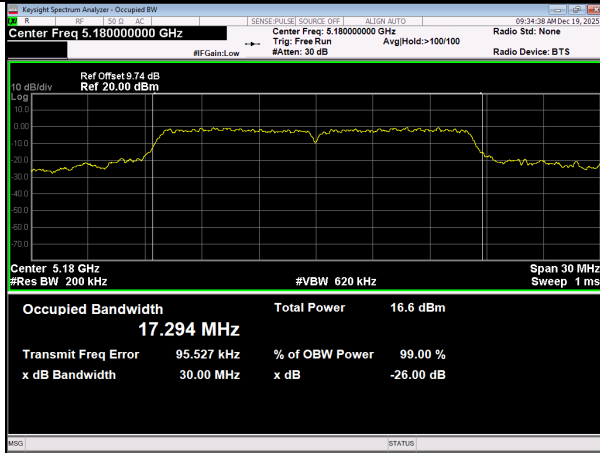
U-NII-1 Band			
Frequency MHz	Data Rate Mbps	26dB Bandwidth MHz	99% Occupied Bandwidth MHz
IEEE 802.11a Mode (OFDM)			
Channel: 5180	6	30.00	---
Channel: 5200	6	29.94	---
Channel: 5240	6	29.89	---
IEEE 802.11n(HT20) Mode (OFDM)			
Channel: 5180	MCS0	29.18	---
Channel: 5200	MCS0	29.03	---
Channel: 5240	MCS0	29.99	---
IEEE 802.11n(HT40) Mode (OFDM)			
Channel: 5190	MCS0	41.11	---
Channel: 5230	MCS0	41.21	---
IEEE 802.11ac (VHT20) Mode (OFDM)			
Channel: 5180	MCS0	26.11	---
Channel: 5200	MCS0	30.00	---
Channel: 5240	MCS0	29.42	---
IEEE 802.11ac (VHT40) Mode (OFDM)			
Channel: 5190	MCS0	41.42	---
Channel: 5230	MCS0	41.62	---
IEEE 802.11ac (VHT80) Mode (OFDM)			
Channel: 5210	MCS0	82.31	---

U-NII-2A Band			
Frequency MHz	Data Rate Mbps	26dB Bandwidth MHz	99% Occupied Bandwidth MHz
IEEE 802.11a Mode (OFDM)			
Channel: 5260	6	30.00	19.085
Channel: 5300	6	30.00	17.293
Channel: 5320	6	30.00	17.006
IEEE 802.11n(HT20) Mode (OFDM)			
Channel: 5260	MCS0	29.99	17.847
Channel: 5300	MCS0	28.94	17.834
Channel: 5320	MCS0	28.89	17.772
IEEE 802.11n(HT40) Mode (OFDM)			
Channel: 5270	MCS0	43.29	36.091
Channel: 5310	MCS0	43.24	36.118
IEEE 802.11ac (VHT20) Mode (OFDM)			
Channel: 5260	MCS0	28.82	17.807
Channel: 5300	MCS0	28.37	17.784
Channel: 5320	MCS0	24.75	17.737
IEEE 802.11ac (VHT40) Mode (OFDM)			
Channel: 5270	MCS0	43.17	36.127
Channel: 5310	MCS0	43.12	36.083
IEEE 802.11ac (VHT80) Mode (OFDM)			
Channel:5290	MCS0	81.73	75.229

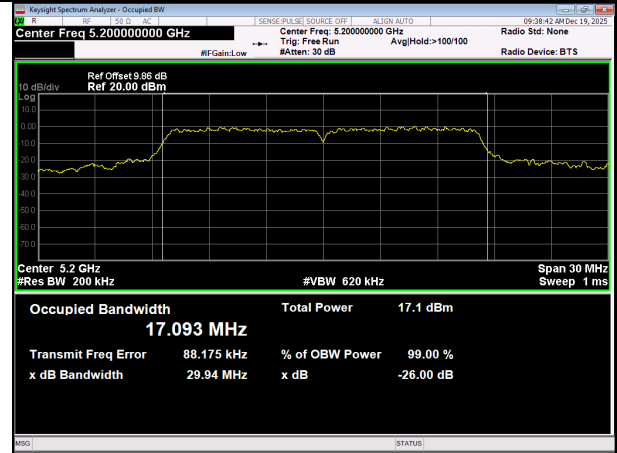
U-NII-2C Band			
Frequency MHz	Data Rate Mbps	26dB Bandwidth MHz	99% Occupied Bandwidth MHz
IEEE 802.11a Mode (OFDM)			
Channel: 5500	6	23.45	16.605
Channel: 5580	6	21.94	16.582
Channel: 5700	6	23.40	16.577
IEEE 802.11n(HT20) Mode (OFDM)			
Channel: 5500	MCS0	21.48	17.644
Channel: 5580	MCS0	21.22	17.642
Channel: 5700	MCS0	21.47	17.640
IEEE 802.11n(HT40) Mode (OFDM)			
Channel: 5510	MCS0	41.58	36.080
Channel: 5670	MCS0	41.16	36.037
IEEE 802.11ac (VHT20) Mode (OFDM)			
Channel: 5500	MCS0	21.31	17.645
Channel: 5580	MCS0	20.94	17.635
Channel: 5700	MCS0	21.06	17.646
IEEE 802.11ac (VHT40) Mode (OFDM)			
Channel: 5510	MCS0	41.57	36.108
Channel: 5670	MCS0	41.60	36.025
IEEE 802.11ac (VHT80) Mode (OFDM)			
Channel: 5530	MCS0	82.12	75.398
Channel: 5610	MCS0	82.24	75.297

U-NII-1 Band 26dB Bandwidth

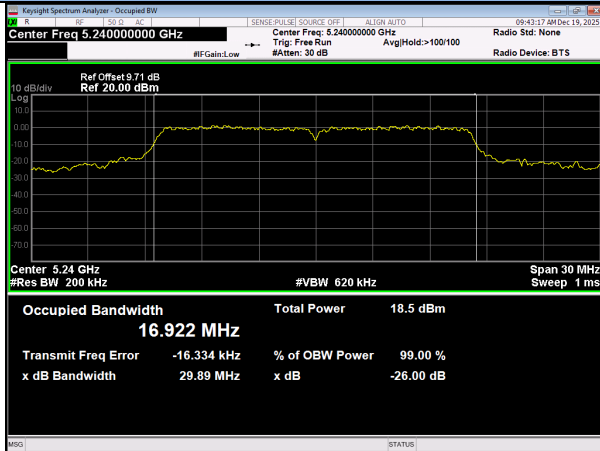
IEEE 802.11a Low Channel



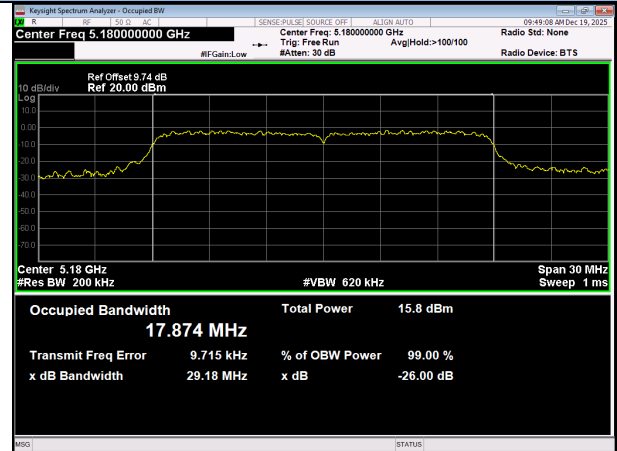
IEEE 802.11a Middle Channel



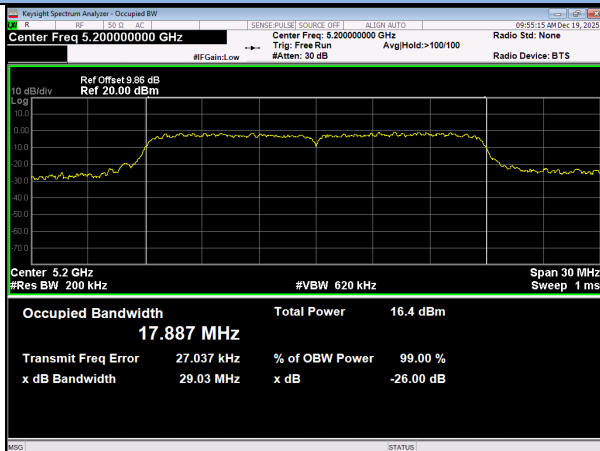
IEEE 802.11a High Channel



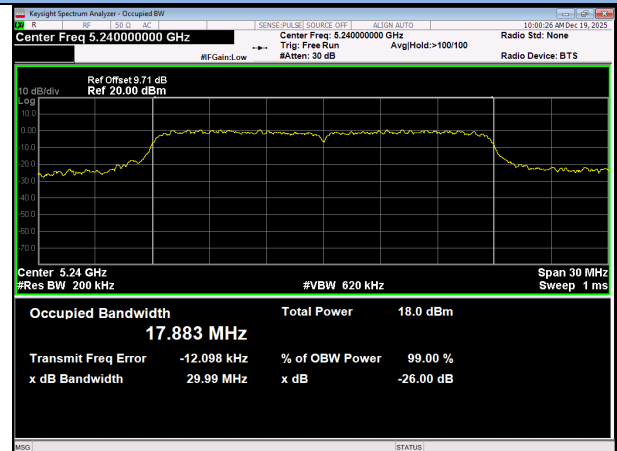
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

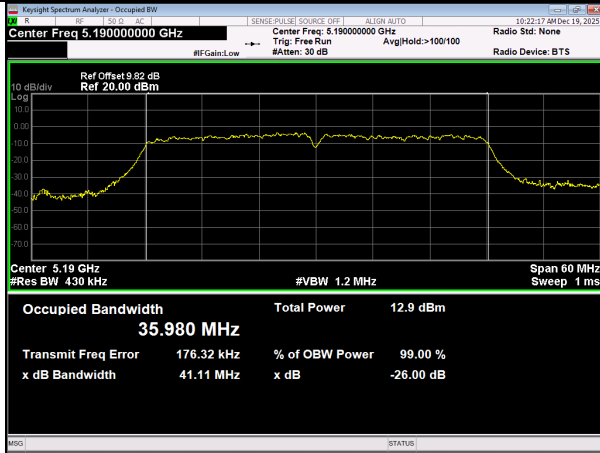


IEEE 802.11n(HT20) High Channel

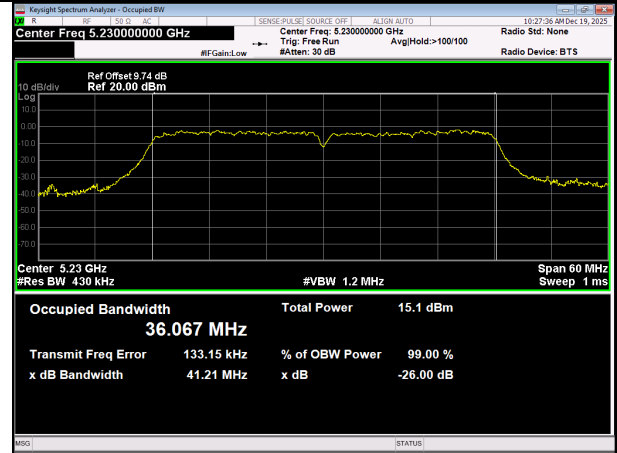


U-NII-1 Band 26dB Bandwidth

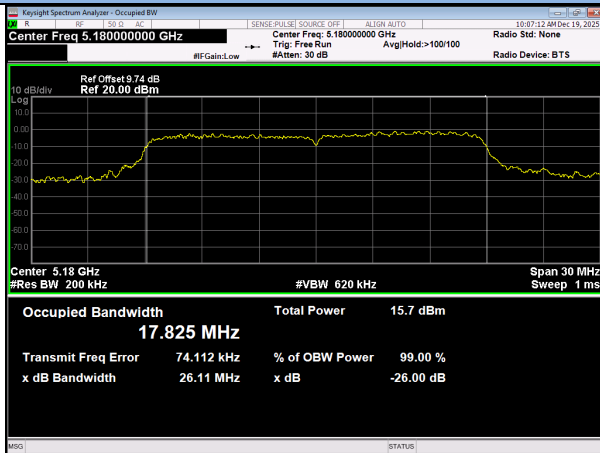
IEEE 802.11n(HT40) Low Channel



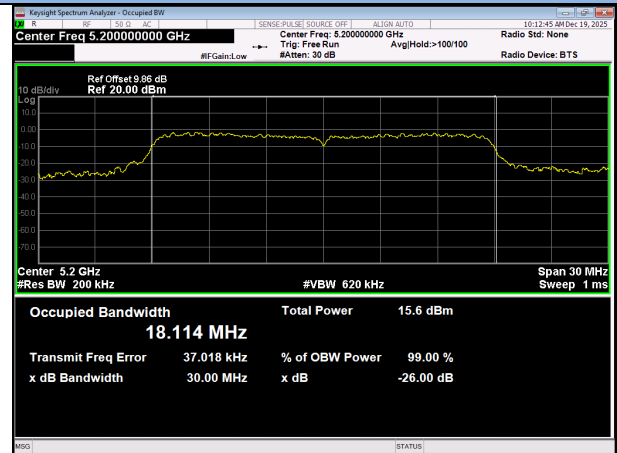
IEEE 802.11n(HT40) High Channel



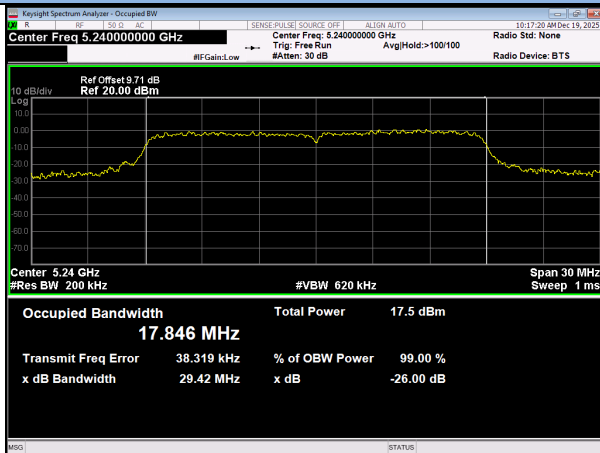
IEEE 802.11ac(VHT20) Low Channel



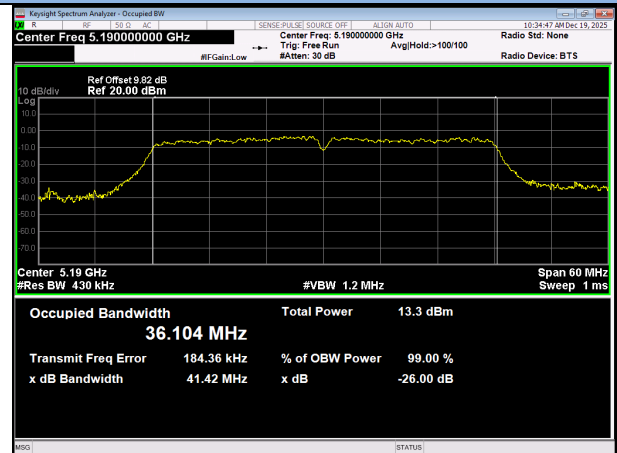
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

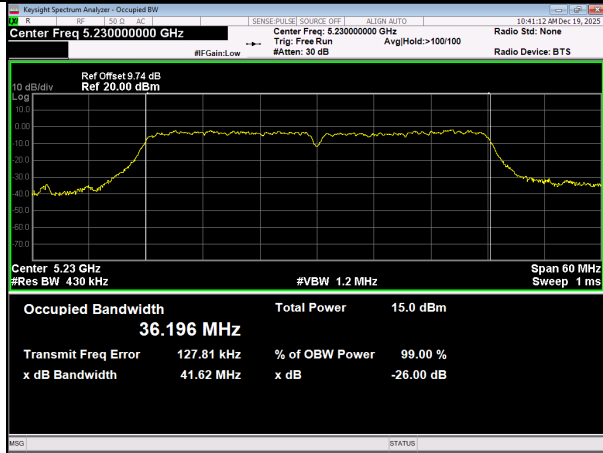


IEEE 802.11ac(VHT40) Low Channel

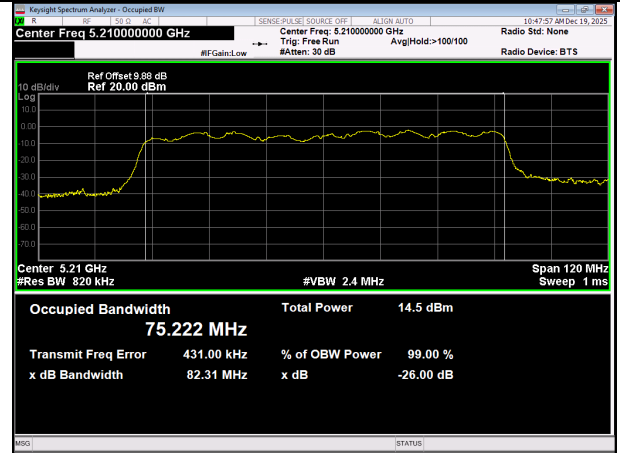


U-NII-1 Band 26dB Bandwidth

IEEE 802.11ac(VHT40) High Channel

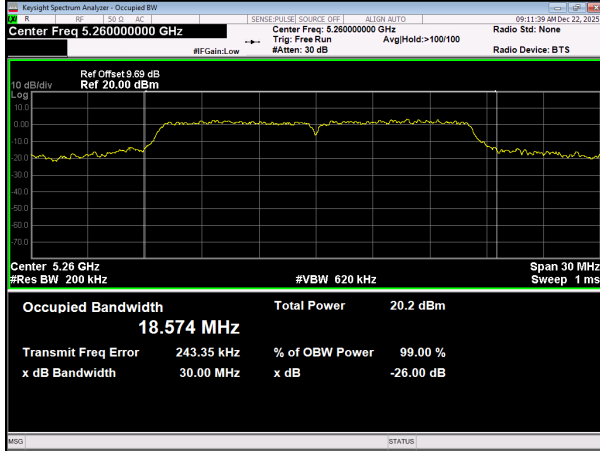


IEEE 802.11ac(VHT80)

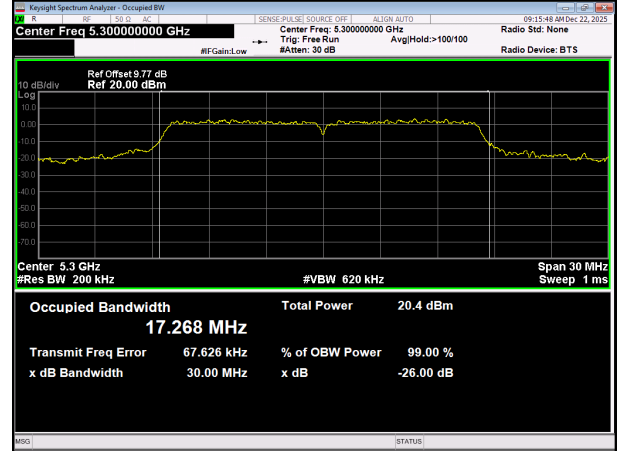


U-NII-2A Band 26dB Bandwidth

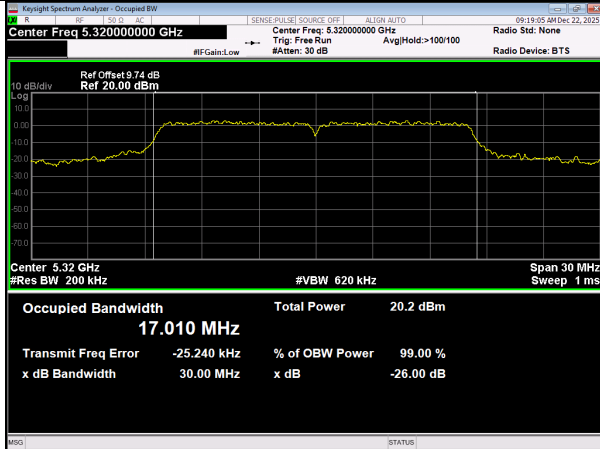
IEEE 802.11a Low Channel



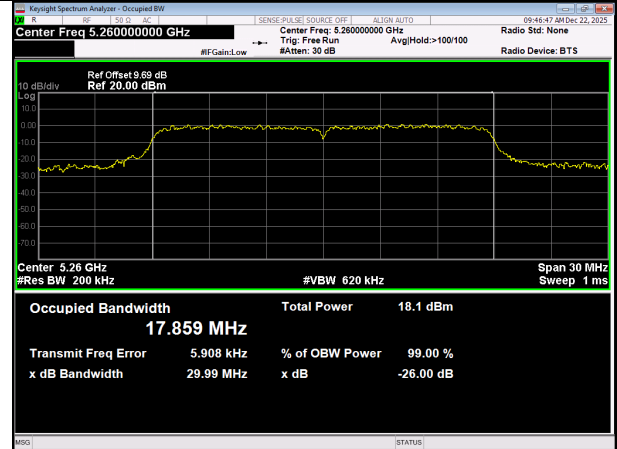
IEEE 802.11a Middle Channel



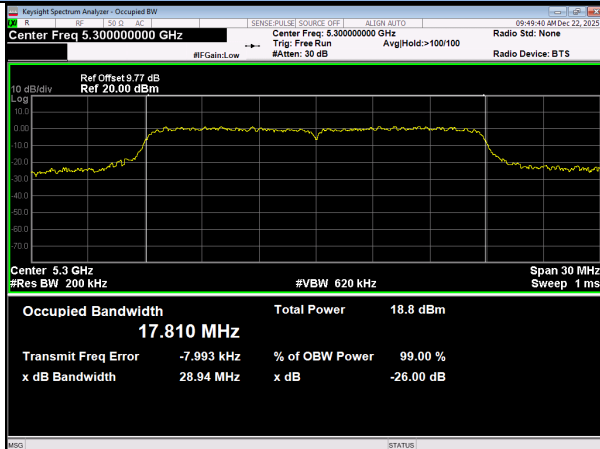
IEEE 802.11a High Channel



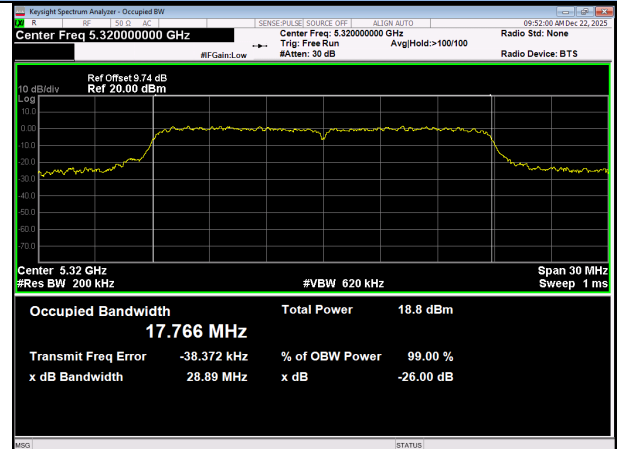
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

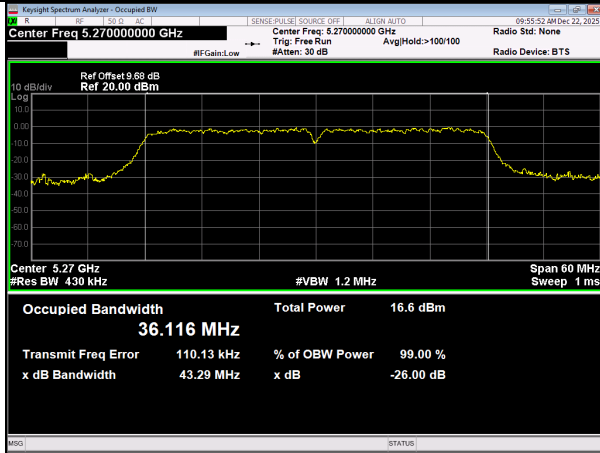


IEEE 802.11n(HT20) High Channel

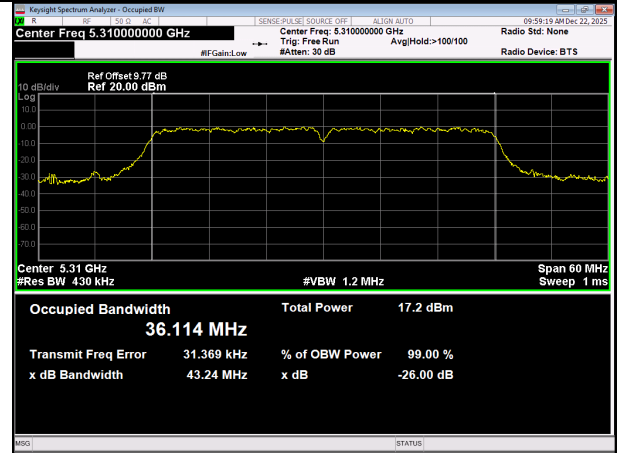


U-NII-2A Band 26dB Bandwidth

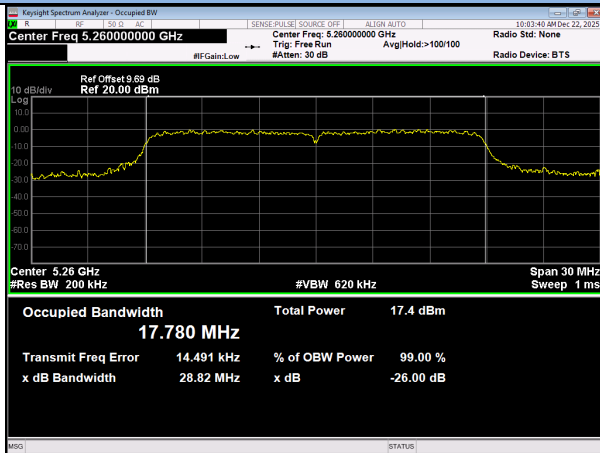
IEEE 802.11n(HT40) Low Channel



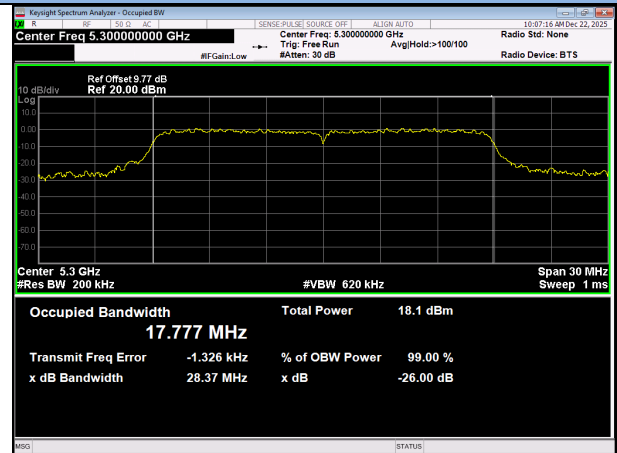
IEEE 802.11n(HT40) High Channel



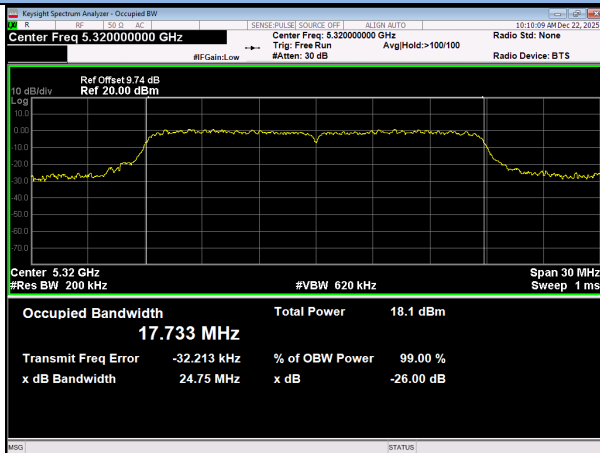
IEEE 802.11ac(VHT20) Low Channel



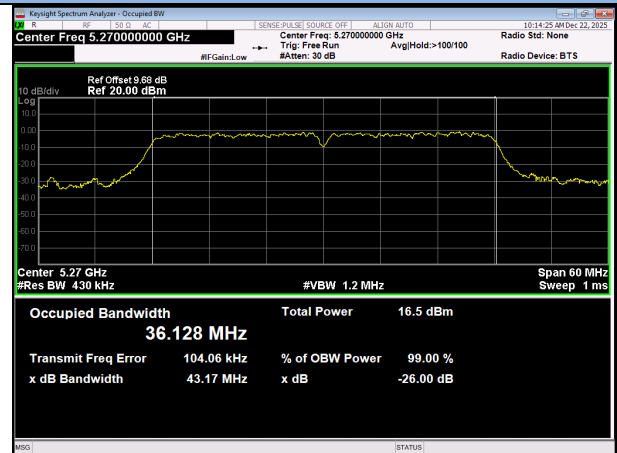
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

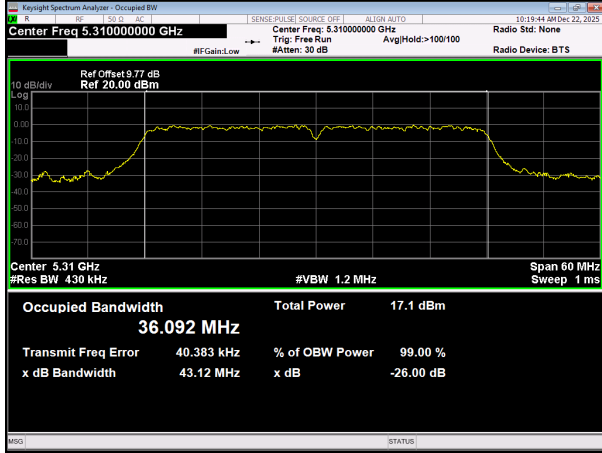


IEEE 802.11ac(VHT40) Low Channel

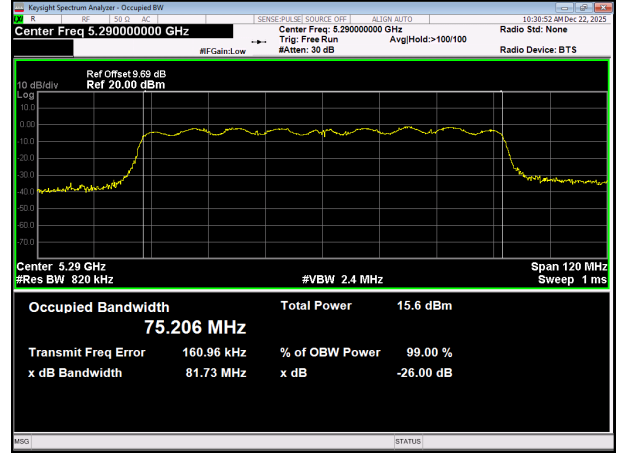


U-NII-2A Band 26dB Bandwidth

IEEE 802.11ac(VHT40) High Channel

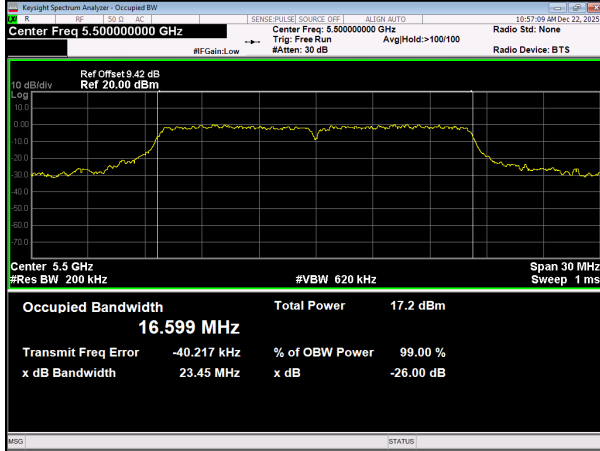


IEEE 802.11ac(VHT80)

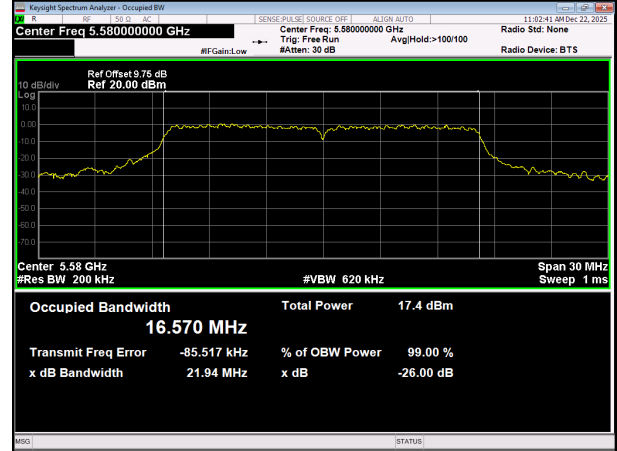


U-NII-2C Band 26dB Bandwidth

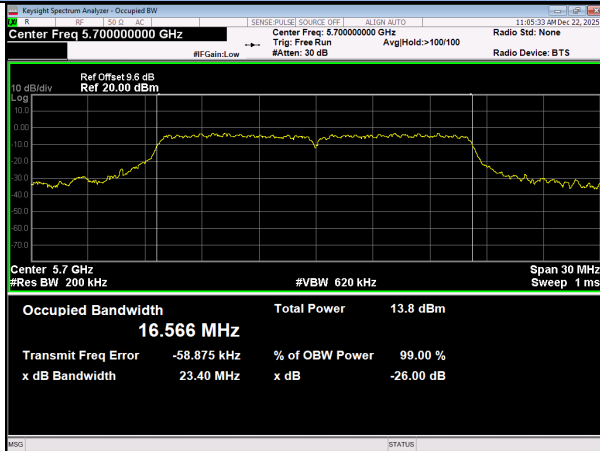
IEEE 802.11a Low Channel



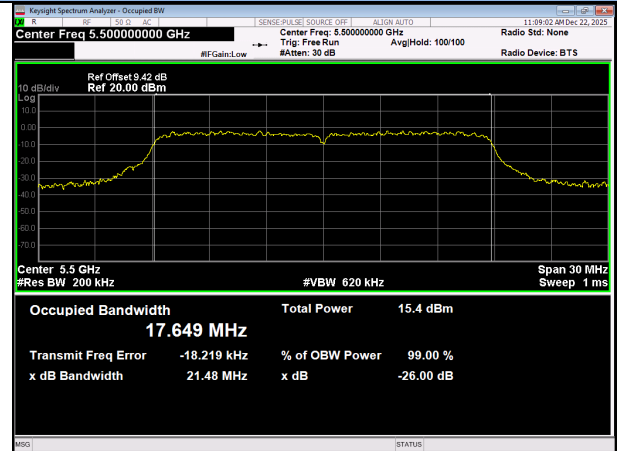
IEEE 802.11a Middle Channel



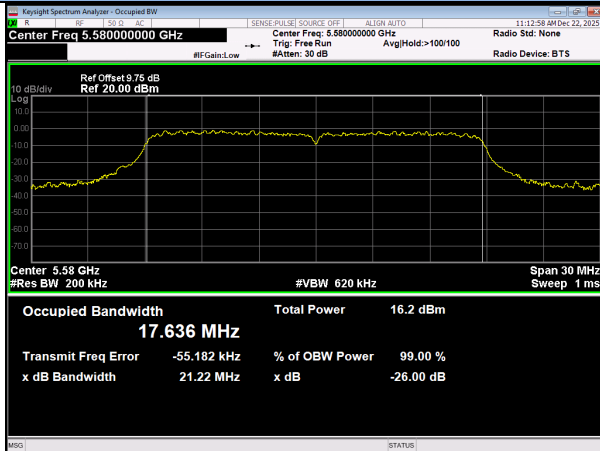
IEEE 802.11a High Channel



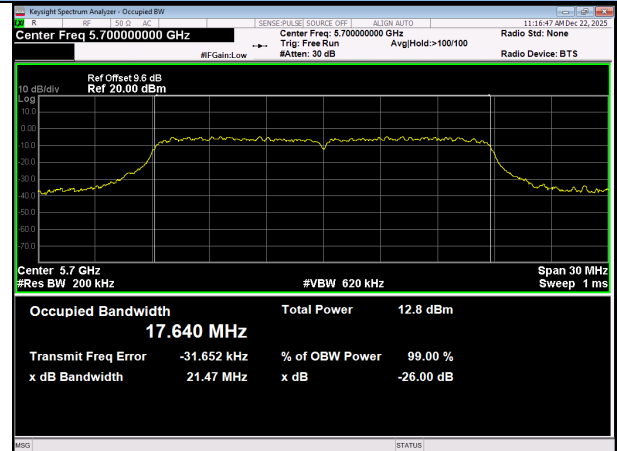
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

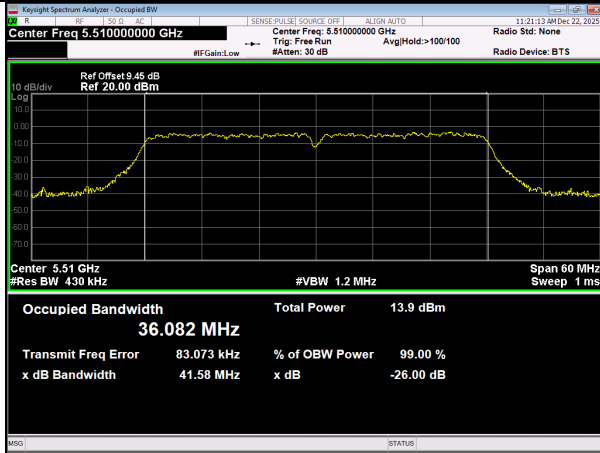


IEEE 802.11n(HT20) High Channel

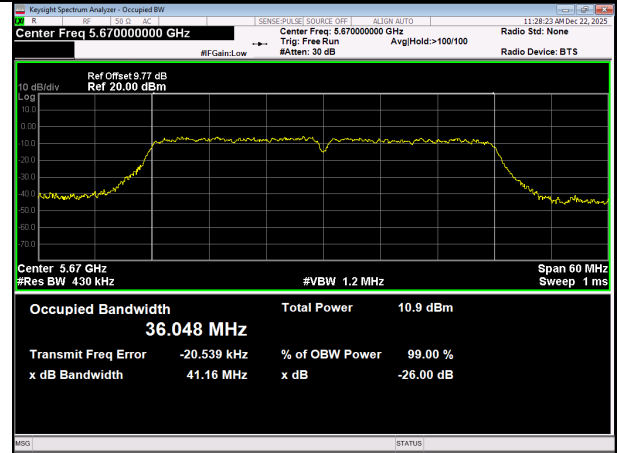


U-NII-2C Band 26dB Bandwidth

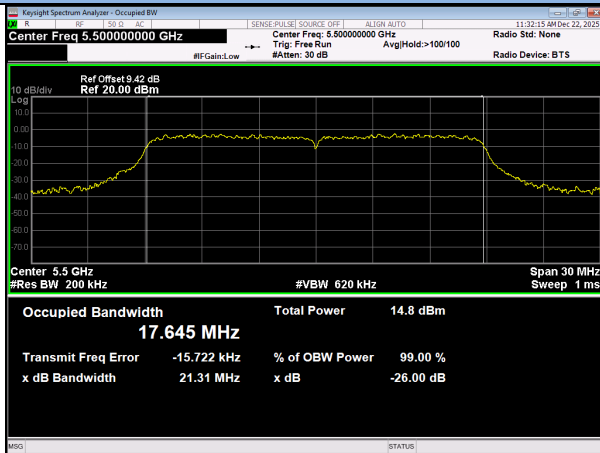
IEEE 802.11n(HT40) Low Channel



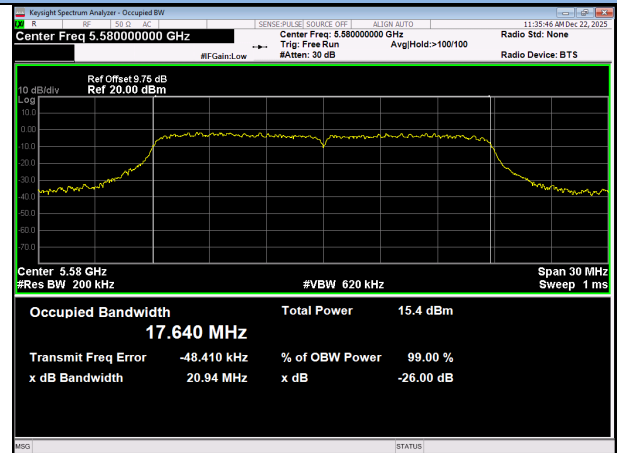
IEEE 802.11n(HT40) High Channel



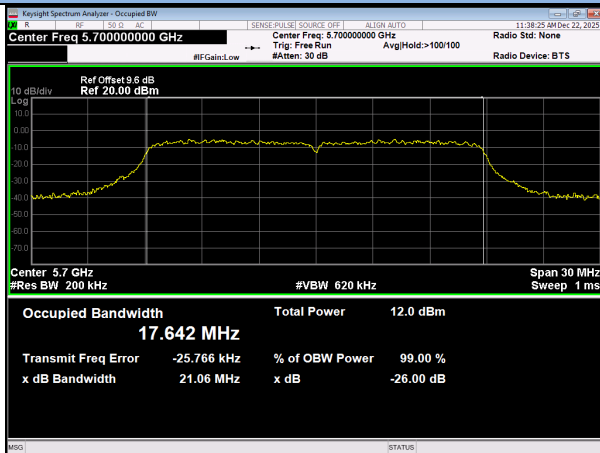
IEEE 802.11ac(VHT20) Low Channel



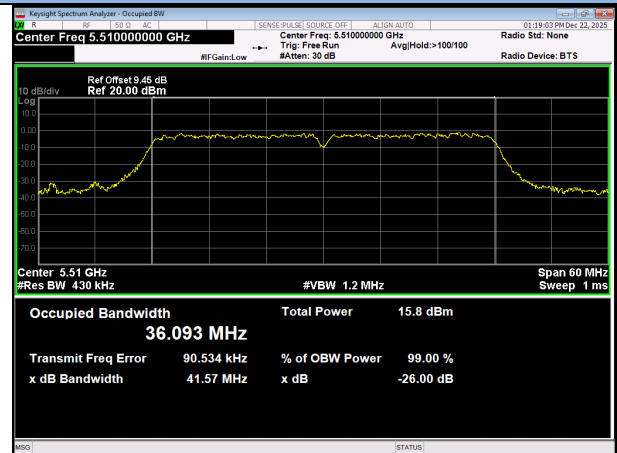
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

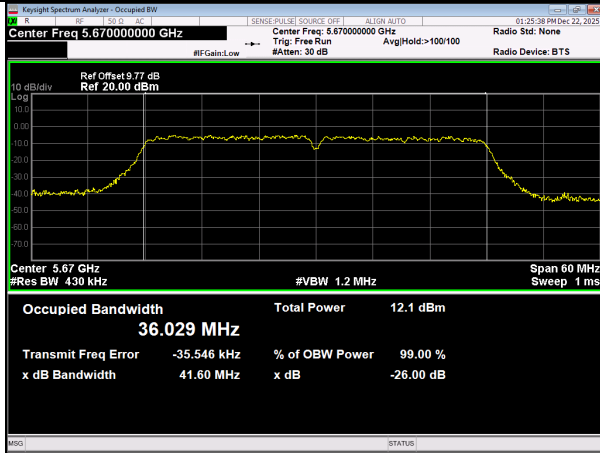


IEEE 802.11ac(VHT40) Low Channel

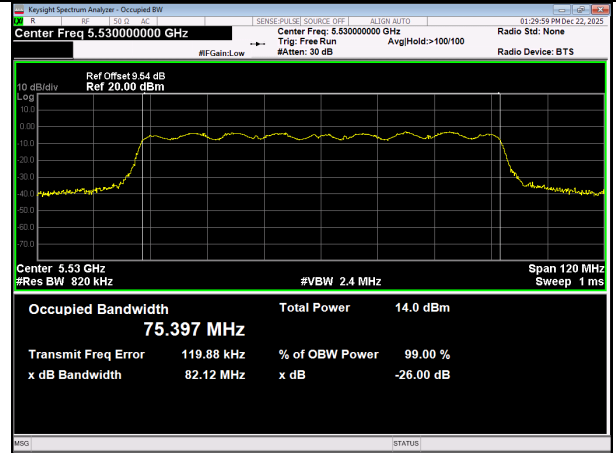


U-NII-2C Band 26dB Bandwidth

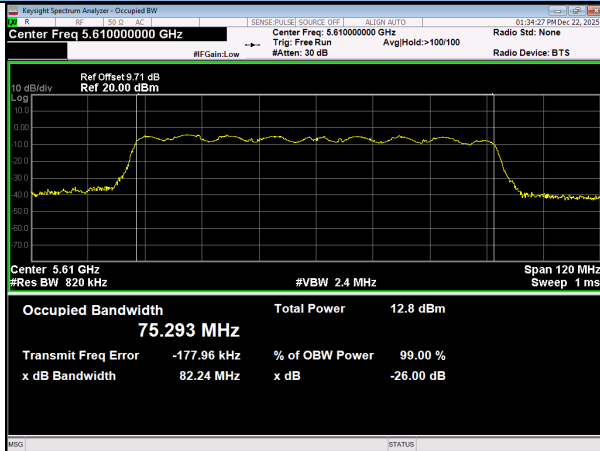
IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80) Low Channel



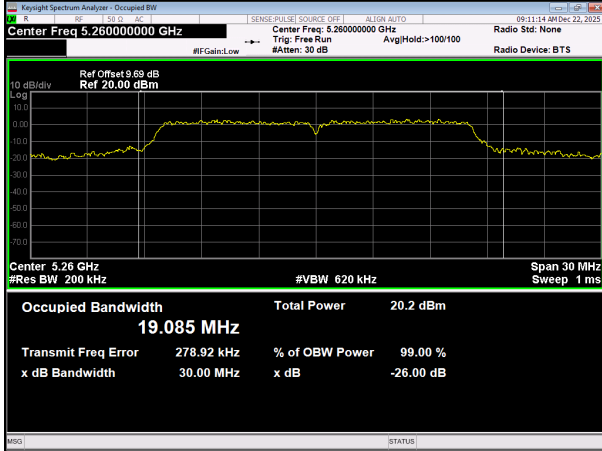
IEEE 802.11ac(VHT80) High Channel



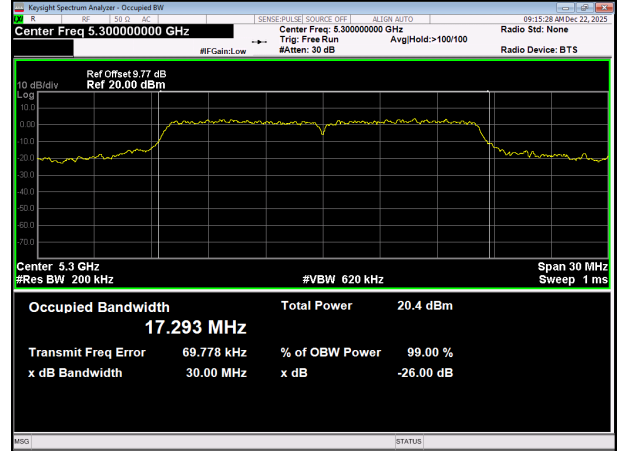
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U-NII-2A Band 99% Bandwidth

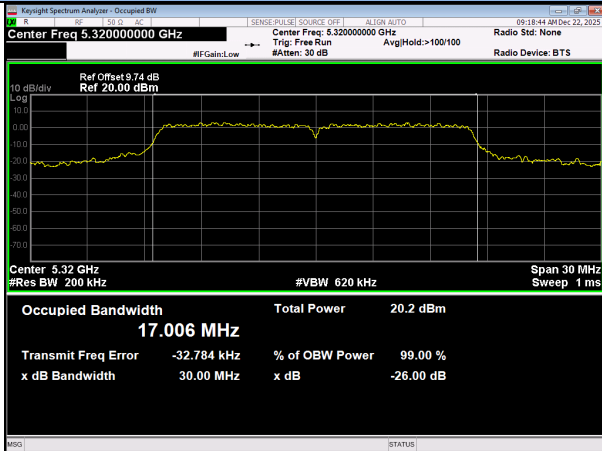
IEEE 802.11a Low Channel



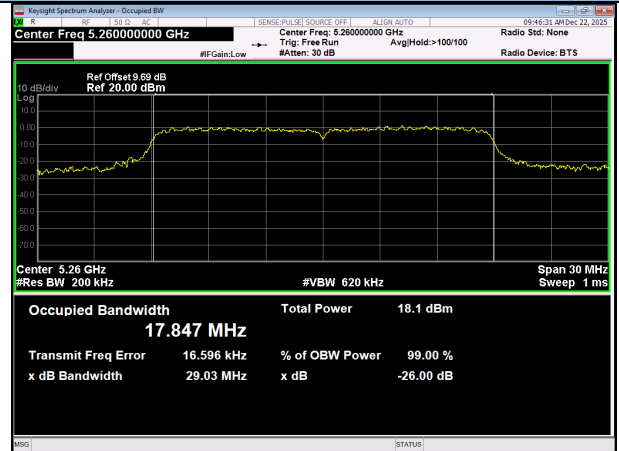
IEEE 802.11a Middle Channel



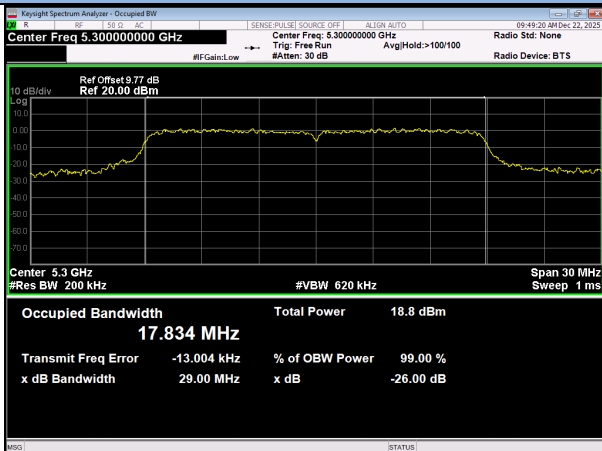
IEEE 802.11a High Channel



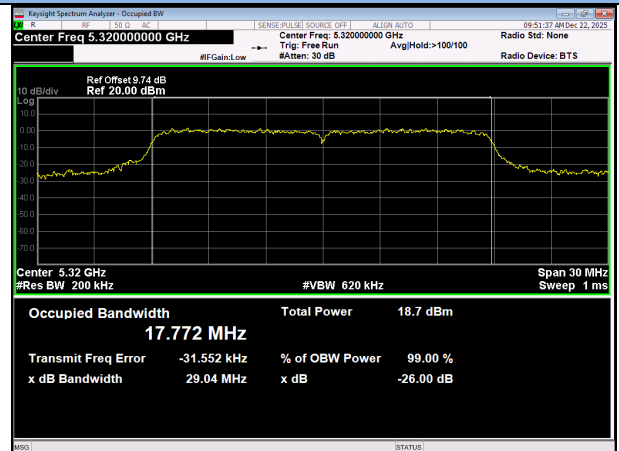
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

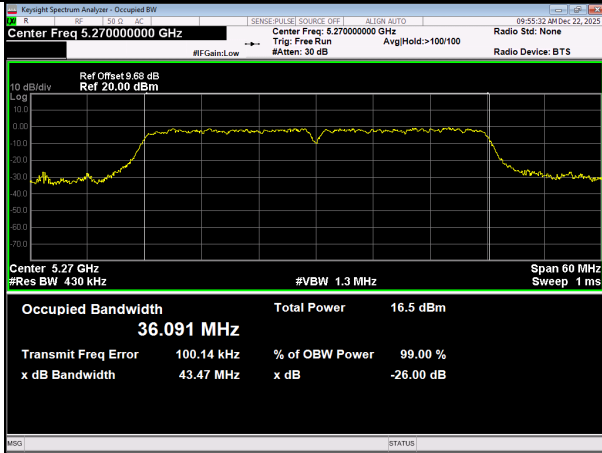


IEEE 802.11n(HT20) High Channel

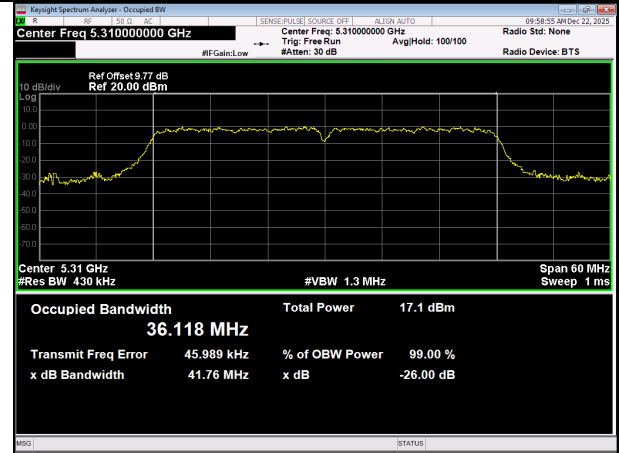


U-NII-2A Band 99% Bandwidth

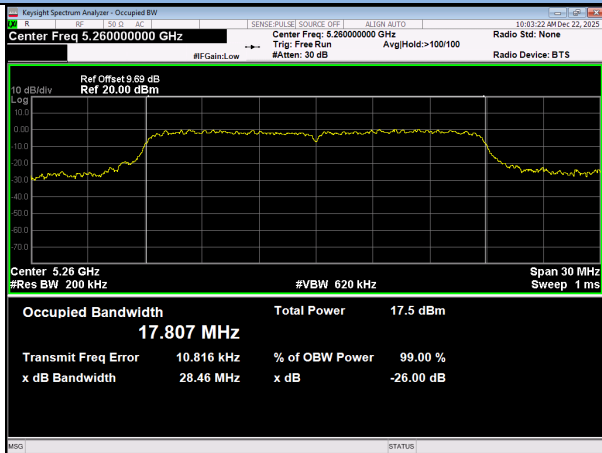
IEEE 802.11n(HT40) Low Channel



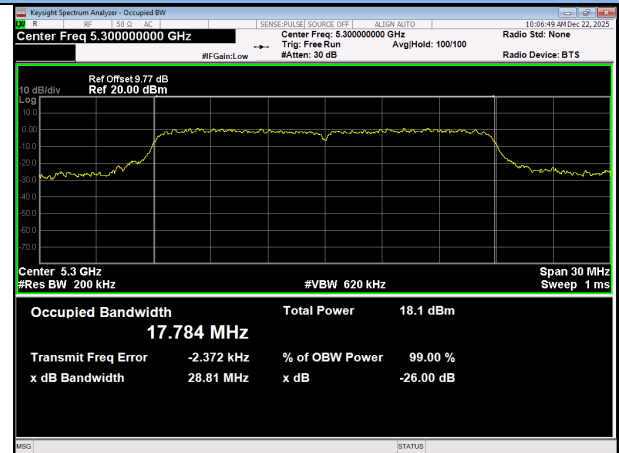
IEEE 802.11n(HT40) High Channel



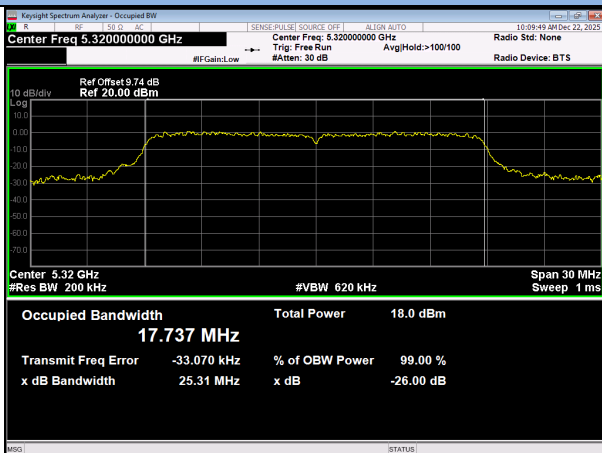
IEEE 802.11ac(VHT20) Low Channel



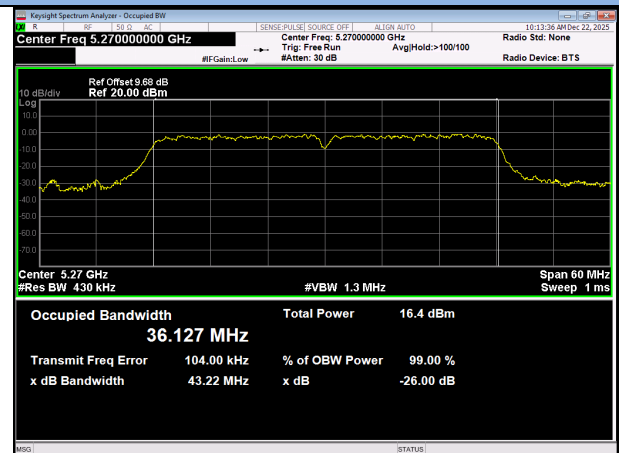
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

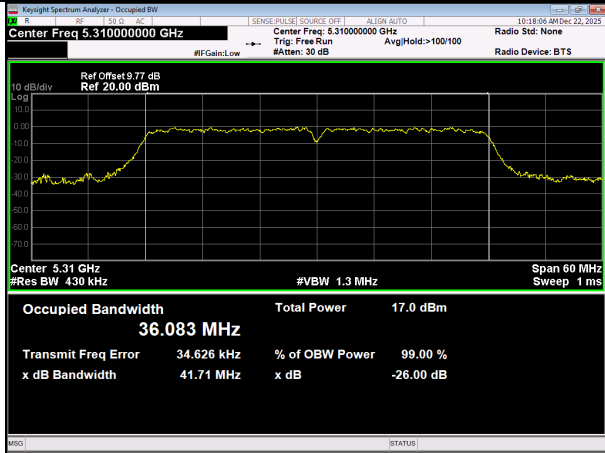


IEEE 802.11ac(VHT40) Low Channel

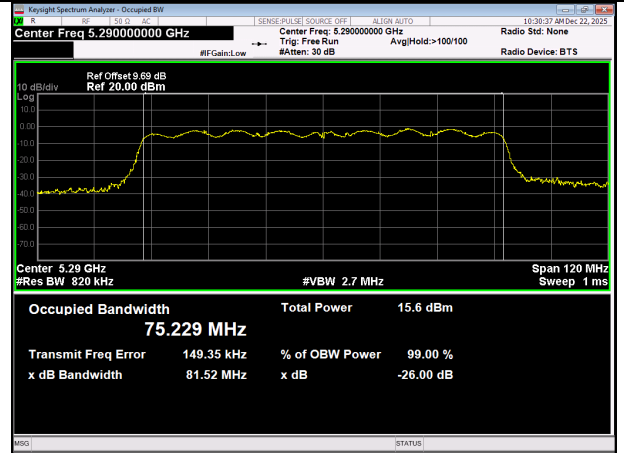


U-NII-2A Band 99% Bandwidth

IEEE 802.11ac(VHT40) High Channel

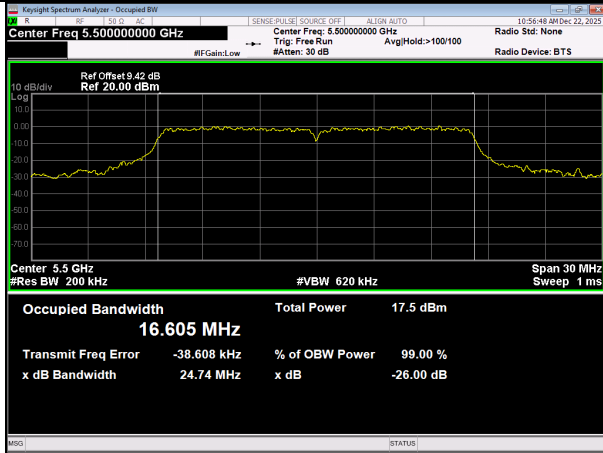


IEEE 802.11ac(VHT80)

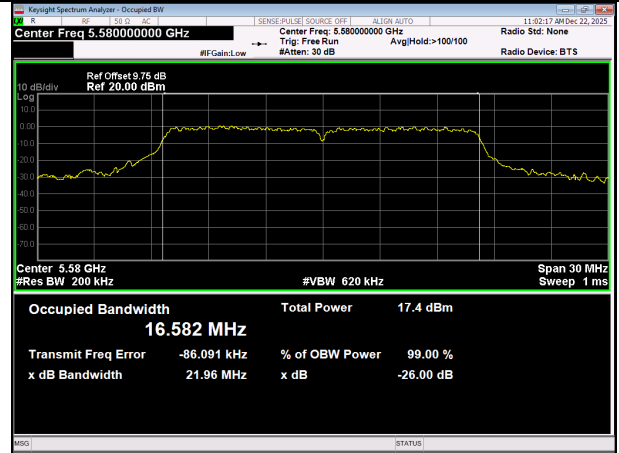


U-NII-2C Band 99%Bandwidth

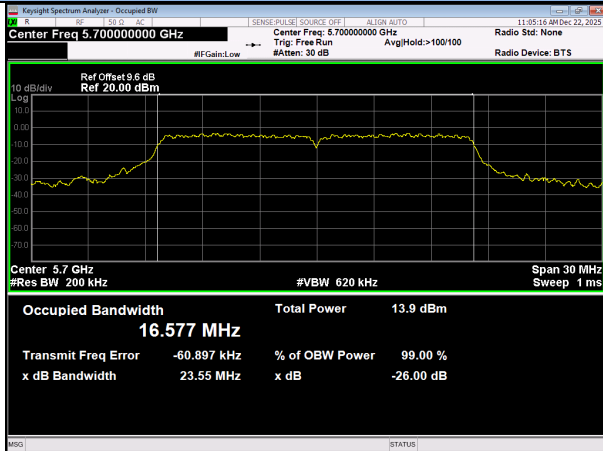
IEEE 802.11a Low Channel



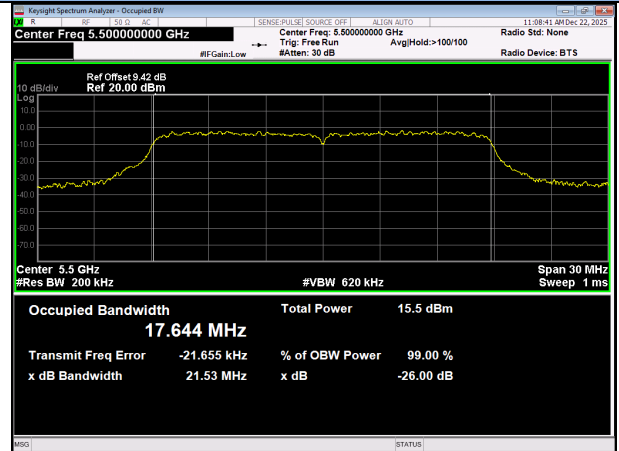
IEEE 802.11a Middle Channel



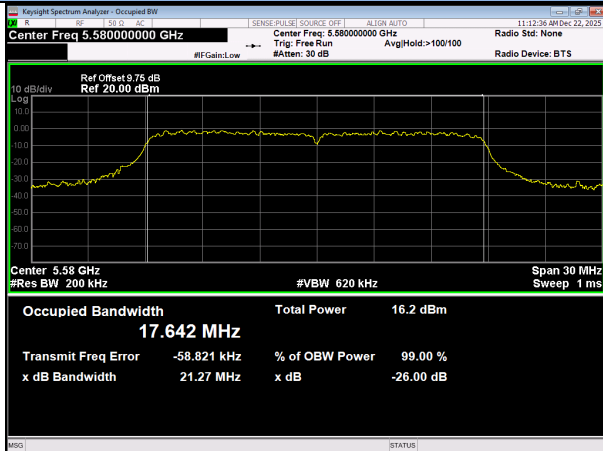
IEEE 802.11a High Channel



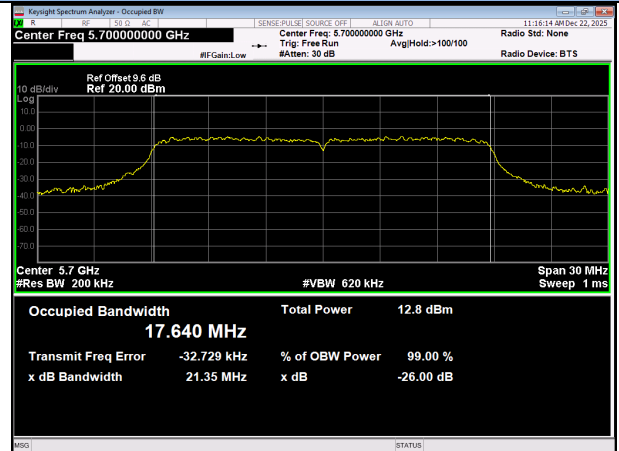
IEEE 802.11n(HT20) Low Channel



IEEE 802.11n(HT20) Middle Channel

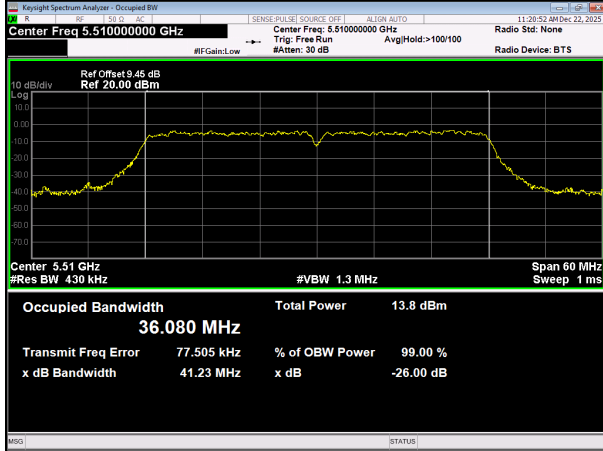


IEEE 802.11n(HT20) High Channel

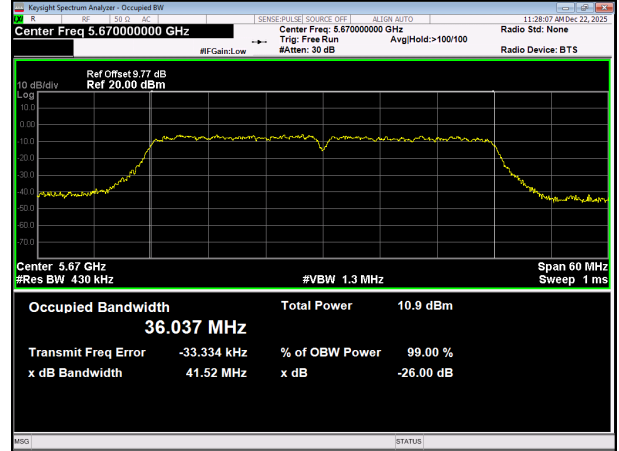


U-NII-2C Band 99% Bandwidth

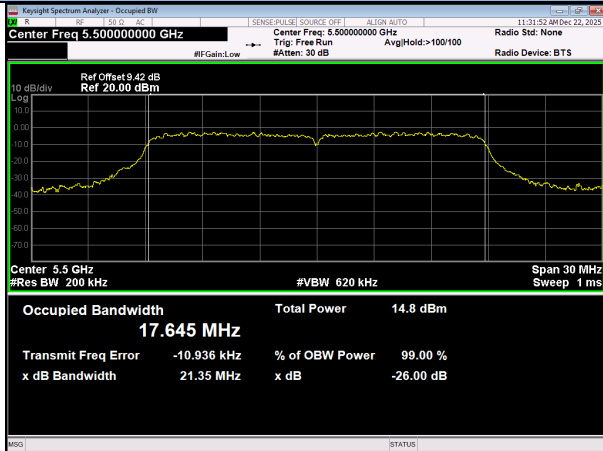
IEEE 802.11n(HT40) Low Channel



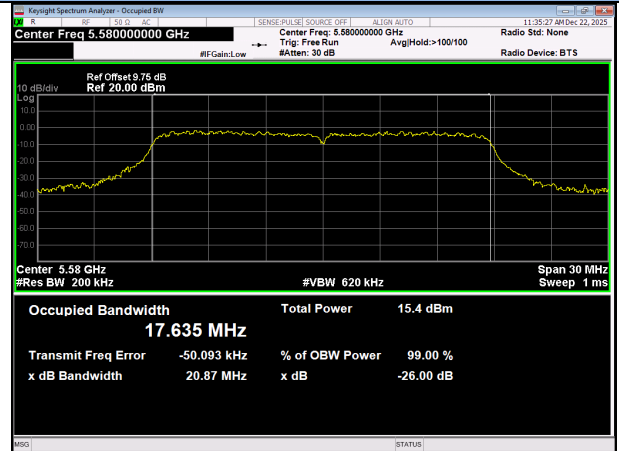
IEEE 802.11n(HT40) High Channel



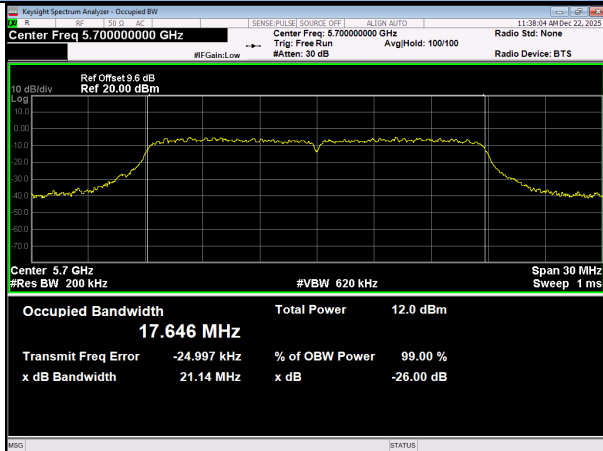
IEEE 802.11ac(VHT20) Low Channel



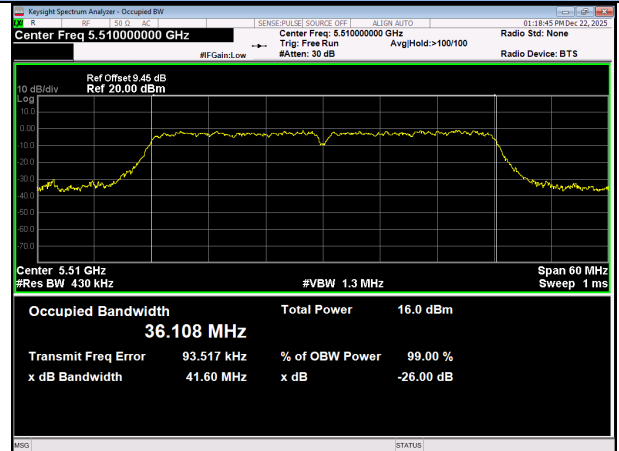
IEEE 802.11ac(VHT20) Middle Channel



IEEE 802.11ac(VHT20) High Channel

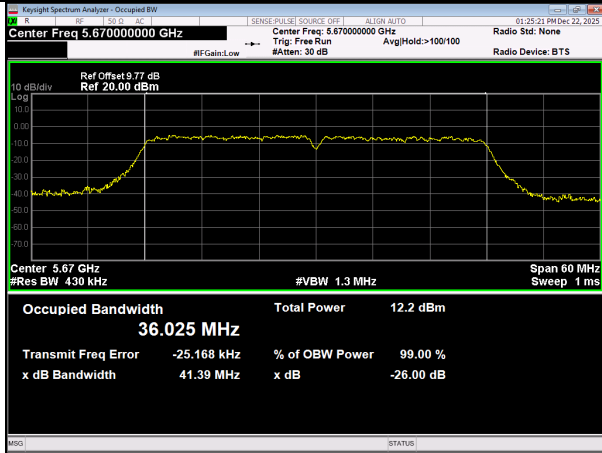


IEEE 802.11ac(VHT40) Low Channel

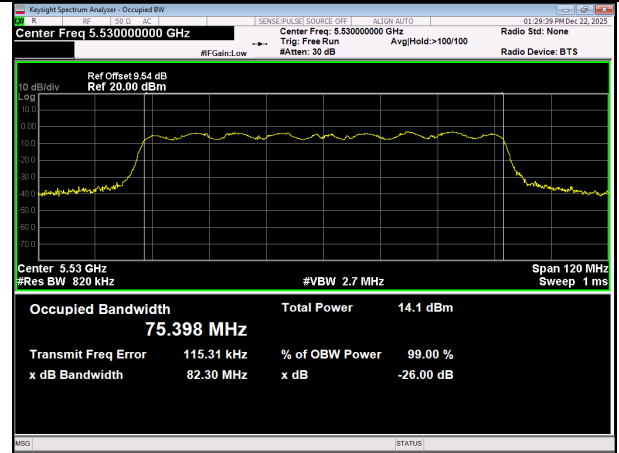


U-NII-2C Band 99% Bandwidth

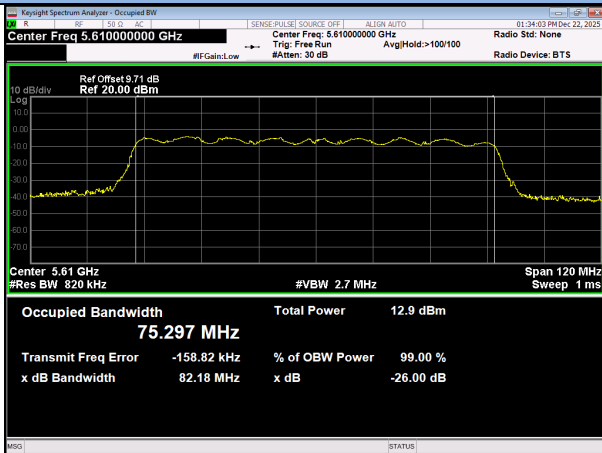
IEEE 802.11ac(VHT40) High Channel



IEEE 802.11ac(VHT80) Low Channel



IEEE 802.11ac(VHT80) High Channel



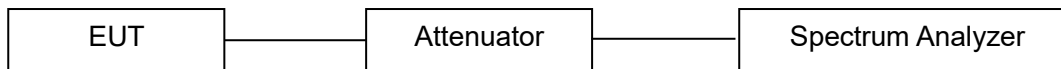
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14.5 Power Spectral Density

LIMITS

Operation Band		Limit
☒ 5180~5240MHz	☐ Outdoor access point	17 dBm/MHz
	☐ Indoor access point	17 dBm/MHz
	☐ Fixed point-to-point access points	17 dBm/MHz
	☒ Client devices	11 dBm/MHz
☒ 5260~5320MHz	-	11 dBm/MHz
☒ 5500~5700MHz	-	11 dBm/MHz
☒ 5745~5825MHz	-	30 dBm/500kHz

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer.

Analyzer was set as below according to FCC KDB789033 (v02r01):

- Set analyzer center frequency to center frequency
- Set the RBW to: 1MHz
- Set the VBW to: 3MHz
- Detector = RMS
- Sweep time = auto couple
- Trace Average = 100 times
- If measured bandwidth of Maximum PSD is specified in 500kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (<500kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement. Allow trace to fully stabilize.

TEST RESULTS

PASS

Please refer to the following test plots.

U-NII-1					
Frequency MHz	Data Rate Mbps	Duty Cycle Factor (dB)	PSD dBm	Total PSD with duty cycle factor	Limit dBm/ MHz
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5180	6	0	-0.962	-0.962	11
Channel: 5200	6		-0.417	-0.417	11
Channel: 5240	6		1.095	1.095	11
IEEE 802.11n(HT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5180	MCS0	0	-1.802	-1.802	11
Channel: 5200	MCS0		-1.030	-1.030	11
Channel: 5240	MCS0		0.507	0.507	11
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5190	MCS0	0	-7.113	-7.113	11
Channel: 5230	MCS0		-5.702	-5.702	11
IEEE 802.11ac(VHT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5180	MCS0	0	-0.986	-0.986	11
Channel: 5200	MCS0		-1.807	-1.807	11
Channel: 5240	MCS0		0.567	0.567	11
IEEE 802.11ac(VHT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5190	MCS0	0	-7.100	-7.100	11
Channel: 5230	MCS0		-5.795	-5.795	11
IEEE 802.11ac(VHT80) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5210	MCS0	0	-8.846	-8.846	11
Note: Please refer to section 13 for duty cycle factor.					

U-NII-2A					
Frequency MHz	Data Rate Mbps	Duty Cycle Factor (dB)	PSD dBm	Total PSD with duty cycle factor	Limit dBm/ MHz
IEEE 802.11a Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5260	6	0	2.581	2.581	11
Channel: 5300	6		3.057	3.057	11
Channel: 5320	6		2.754	2.754	11
IEEE 802.11n(HT20)Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5260	MCS 8	0	0.788	0.788	11
Channel: 5300	MCS 8		1.213	1.213	11
Channel: 5320	MCS 8		1.279	1.279	11
IEEE 802.11n(HT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5270	MCS 8	0	-4.283	-4.283	11
Channel: 5310	MCS 8		-3.712	-3.712	11
IEEE 802.11ac(VHT20) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5260	MCS 8	0	0.111	0.111	11
Channel: 5300	MCS 8		0.708	0.708	11
Channel: 5320	MCS 8		0.739	0.739	11
IEEE 802.11ac(VHT40) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5270	MCS 8	0	-4.542	-4.542	11
Channel: 5310	MCS 8		-3.988	-3.988	11
IEEE 802.11ac(VHT80) Mode (OFDM, Antenna Gain=4.64dBi)					
Channel: 5290	MCS 8	0	-7.53	-7.530	11
Note: Please refer to section 13 for duty cycle factor.					