



FCC PART 15 SUBPART E FCC PART §15.407 TEST REPORT

FCC ID:RIJAF12

Report No: CTSL2610130018ER04

Product Name: Tablet PC

Main Test Model: AF12/ES418

Series Models: -

Applicant: EPUDO(DongGuan)Digital Technology Co.Ltd

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with
FCC PART 15 SUBPART E (15.407).

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applicable to presented Test sample.

CTSL Testing (Dongguan) Co., Ltd.

Main company address: Building 1, Houjie Road, Houjie Town, Guangdong
Province Dongguan City, China

Test Report					
FCC ID:RIJAF12					
Applicant Name	EPUDO(DongGuan)Digital Technology Co.Ltd				
Applicant Address	NO.5, The fifth keyuan Road, Keyuancheng, Tangxia Town, Dongguan, Guangdong, China				
Manufacturer Name	EPUDO(DongGuan)Digital Technology Co.Ltd				
Manufacturer Address	NO.5, The fifth keyuan Road, Keyuancheng, Tangxia Town, Dongguan, Guangdong, China				
Trade Mark	RebotAi				
Product name	Tablet PC				
Main Test Model	AF12/ES418				
Series Models	-				
Standard	FCC CFR Title 47 Part 15 Subpart E (§15.407) ANSI C63.10:2020 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01				
Test Location	ISO/IEC 17025 by ILAC-MRA is A2LA 7556.01 CTSL Testing (Dongguan) Co., Ltd. Room 112, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China				
Receipt Date	2026.01.14	Test period	2026.01.14-2026.01.29	Issue Date	2026.01.30
Conclusion	The equipment under test was found to be compliance with the requirements of the standards applied.				
Performs Testing:	Ethan Zhao	(Special seal)			
Test Report Reviewer:	Steve Qin				
Test Report Authorizer:	Alan Li				

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1. GENERAL INFORMATION

1.1. General Description of EUT (Equipment Under Test)

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

Product Information	
Product Name	: Tablet PC
Main Test Model	: AF12/ES418
Series Models	: --
Power supply	: Charging Input: DC 5-9V, 2A, 18W Max by Type-C
Battery	: DC 3.85V by Internal battery Model:30100102(SJY) Capacity: 10000mAh
Software Version	: AF12_T1_251223
Hardware Version	: T30-T7300-V1.0-251015-QU
Equipment Under Test	
Testing sample ID	: CTSL2610130018-S1 (Engineer sample) CTSL2610130018-S2 (Normal sample)
Test supplied	: ☐ supplied by the manufacturer ☒ supplied by the lab (Auxiliary test supplied by test Lab)
Switching Power Supply information	: Adapter Output: DC 5V 3A, DC 9V 2A;
Wireless Specification	
Supported Type	: 5G WLAN: IEEE802.11a, IEEE802.11n:HT20 / HT40, IEEE802.11ac: VHT20 / VHT40 / VHT80
Modulation Type	: OFDM (QPSK, BPSK, 16-QAM, 64-QAM,256-QAM)
Transmit data rate (WLAN)	: IEEE802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up 300Mbps IEEE 802. 11ac: up to 866.6Mbps
Operation frequency	: U-NII-1: 5150MHz~5250MHz; U-NII-3: 5725MHz~5850MHz
Number of channels	U-NII-1 20M Bandwidth: 4 channels 40M Bandwidth: 2 channels 80M Bandwidth: 1 channel
	U-NII-3 20M Bandwidth: 5 channels 40M Bandwidth: 2 channels 80M Bandwidth: 1 channel
Max Output Power	: U-NII-1: 3.45dBm (3±1.0dBm) U-NII-3: 5.81dBm (5±1.0dBm)
Antenna Gain& type	: Refer to Section 1.2 of the report.
Sample Type	: Prototype production
Type of Device	: ☒ Portable Device; ☐ Mobile Device; ☐ Modular Device

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	5.2 G band	WIFI & BT & 5Gwifi	FPC	IPEX connector	-0.94
	5.8 G band				-0.81

Note:

1. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
2. The test results of this report only apply to the sample as received.
3. The 'Ant No.' indicate the number of antennas. This product has a single antenna, and the antenna working mode is SISO configuration.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	EPUDO(DongGuan)Digital Technology Co.Ltd

Note:

1. The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received.
2. The laboratory is not responsible for the accuracy of the cable loss.

2. SUMMARY OF TEST

2.1. Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart E (§15.407)	Unlicensed National Information Infrastructure Devices
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E

2.2. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	On Time and Duty Cycle	ANSI C63.10-2020, Clause 12.2	PASS (Note 1)
2	26dB Emission Bandwidth 99% Occupied Bandwidth	§ 15.407 (a)	PASS (Note 2)
3	6dB Emission Bandwidth	§ 15.407(e)	PASS (Note 3)
4	Maximum Conducted Output Power	§ 15.407(a)	PASS
5	Power Spectral Density	§ 15.407(a)	PASS
6	Radiated & Conducted Spurious Emissions and Band Edge (Restricted-band)	§ 15.407(b), § 15.205, § 15.209	PASS
7	AC Power Line Conducted Emissions	§ 15.207	PASS
8	Antenna Requirement	§ 15.203, 15.407(a)(1) (2)	PASS
9	Frequency Stability	§ 15.407(g)	PASS (Note 4)
10	Dynamic frequency selection	§ 15.407(h)	N/A (Note 5)

Note: "N/A" denotes test is not applicable in this test report.

Note 1: None limit, For reporting purposes only.

Note 2: Apply to U-NII 1 band.

Note 3: Apply to U-NII 3 band only.

Note 4: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

Note 5: This device not work in DFS band.

2.3. Test Facilities

EMC Lab :

A2LA Certificate Number: 7556.01;
CTSL Testing (Dongguan) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

FCC Designation Number: CN1425;
Test Firm Registration Number: 750639;
CTSL Testing (Dongguan) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 34801;
CAB identifier: CN0192;
CTSL Testing (Dongguan) Co., Ltd. The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

Name of Firm : CTSL Testing (Dongguan) Co.,Ltd.

EMC test location/satellite location:
Room 112, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China City, Guangdong, China

2.4. Measurement uncertainty

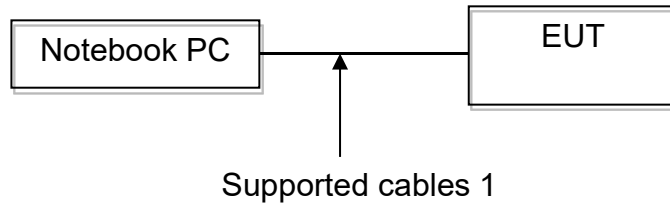
Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for spurious emissions test (30MHz-1GHz)	±4.60 dB(Polarize: H)
	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 25GHz)	±4.96dB
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately The 95% confidence level using a coverage factor of k=2.

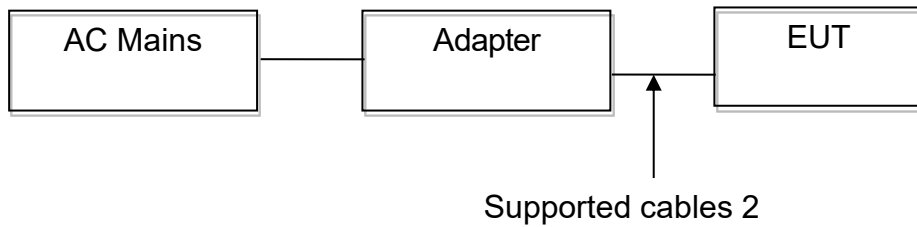
2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.

Connect EUT Antenna Terminal, Radiated Spurious Emissions& Band Edge Test



AC Power Line Conducted Emissions& Radiated Emission Test (30-1000MHz):



(EUT: Tablet PC)

2.6. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
1	Notebook PC	-	Inspiron 14R-5421 (Manufacturer: Dell)	-	25TZHW1
2	ADAPTER (supplied by the Lab.)	-	VCB7CACH	-	C622503PB1 009774

Supported cables				
Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.5m	USB Extension Cable (supplied by the Lab.)
2	NO	NO	0.8m	USB Extension Cable (supplied by the manufacturer)

2.7. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst-case test mode was selected for the final test as listed below.

Test Items	Mode	Data Rate	Modulation Type	Test Channel	
				U-NII-1	U-NII-3
				Channel	Channel
Maximum Conducted Output Power, Power Spectral Density, Radiated Spurious Emissions & Conducted Spurious Emissions (Restricted-band)	802.11a	6Mbps	OFDM	36/44/48	149/157/165
	802.11n HT20	MCS0		36/44/48	149/157/165
	802.11n HT40	MCS0		38/46	151/159
	802.11ac VHT20	MCS0		36/44/48	149/157/165
	802.11ac VHT40	MCS0		38/46	151/159
	802.11ac VHT80	MCS0		42	155
26dB Emission Bandwidth 99% Occupied Bandwidth	802.11a	6Mbps	OFDM	36/44/48	/
	802.11n HT20	MCS0		36/44/48	/
	802.11n HT40	MCS0		38/46	/
	802.11ac VHT20	MCS0		36/44/48	/
	802.11ac VHT40	MCS0		38/46	/
	802.11ac VHT80	MCS0		42	/
6dB Emission Bandwidth	802.11a	6Mbps	OFDM	/	149/157/165
	802.11n HT20	MCS0		/	149/157/165
	802.11n HT40	MCS0		/	151/159
	802.11ac VHT20	MCS0		/	149/157/165
	802.11ac VHT40	MCS0		/	151/159
	802.11ac VHT80	MCS0		/	155
Radiated Band Edge	802.11a	6Mbps	OFDM	36/48	149/165
	802.11n HT20	MCS0		36/48	149/165
	802.11n HT40	MCS0		38/46	151/159
	802.11ac VHT20	MCS0		36/48	149/165
	802.11ac VHT40	MCS0		38/46	151/159
	802.11ac VHT80	MCS0		42	155
On Time & Duty Cycle	802.11a	6Mbps	OFDM	36	149
	802.11n HT20	MCS0		36	149
	802.11n HT40	MCS0		38	151
	802.11ac VHT20	MCS0		36	149
	802.11ac VHT40	MCS0		38	151
	802.11ac VHT80	MCS0		42	155

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis (X, Y, Z), the worst case was found when positioned on **X-plane**.

2.8. Channel List

Band	Mode	Channel No.	Frequency (MHz)
U-NII-1	IEEE802.11a IEEE802.11n HT20 IEEE802.11ac VHT20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 IEEE 802.11ac VHT40	38	5190
		46	5230
	IEEE 802.11ac VHT80	42	5210
U-NII-3	IEEE802.11a IEEE802.11n HT20 IEEE802.11ac VHT20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	IEEE 802.11n HT40 IEEE 802.11ac VHT40	151	5755
		159	5795
	IEEE 802.11ac VHT80	155	5775

2.9. Power Setting of Test Software

Software Name	Pandora_R22.24.1701		
Test Frequency (MHz)	5180	5220	5240
IEEE 802.11a Setting	4	4	4
IEEE 802.11n HT20 Setting	4	4	4
IEEE 802.11ac VHT20 Setting	4	4	4
Test Frequency (MHz)	5190	/	5230
IEEE 802.11n HT40 Setting	4	/	4
IEEE 802.11ac VHT40 Setting	4	/	4
Test Frequency (MHz)	5210		
IEEE 802.11ac VHT80 Setting	4		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a Setting	5	5	5
IEEE 802.11n HT20 Setting	5	5	5
IEEE 802.11ac VHT20 Setting	5	5	5
Test Frequency (MHz)	5755	/	5795
IEEE 802.11n HT40 Setting	5	/	5
IEEE 802.11ac VHT40 Setting	5	/	5
Test Frequency (MHz)	5775		
IEEE 802.11ac VHT80 Setting	4		

Note: This information is provided by the applicant.

2.10. Test Equipment

For Conducted Emission Test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI 3	AT005	GUANGZHOU NEM	May 16,25	May 15,26
LISN	Rohde & Schwarz	ENV216	AT006	LISAI	July 31,25	July 30,26
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	AT007	CCIC (Shenzhen)	July 10,25	July 09,26
CE Cable	Times Microwave	LMR195UF-N MNM-1.50M	AT041	GUANGZHOU NEM	May 16,25	May 15,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A

For Radiated Emission Test (9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI TestReceiver	Rohde& Schwarz	ESCI 7	AT001	Ti Group	July 31,24	July 30,26
Active Loop Antenna	ZHINAN	ZN30900C	AT063	LISAI	Aug 03,24	Aug 02,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	Times Microwave	LMR195UF-N MNM-9M	AT045	GUANGZHOU NEM	May 16,25	May 15,26

For Radiated Emissions Test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde& Schwarz	ESCI 7	AT001	Ti Group	Jun 12,25	Jun 11,26
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	AT002	LISAI	Aug 03,24	Aug 02,26
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A
30-1000MHz Cable	Times Microwave Systems	LMR195UF-N MRNMR-3.00 M+ LMR400UF-N MNM-3.00M+ LMR400UF-N MNM-3.00M	AT042+AT043+AT044	GUANGZHOU NEM	May 16,25	May 15,26

For Radiated Emission test (Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna 1-18G	SCHWARZBECK	BBHA 9120 D	AT003	Shenzhen Academy of Metrology & Quality Inspection	Sep 23,24	Sep 22,26
Horn Antenna 18-40GHz	XIBAO	XB-WDB18-40K	AT064	LISAI	Feb 25,25	Feb 24,26
Broadband Preamplifier	SCHWARZBECK	BBV 9718 D	AT004	CCIC (Shenzhen)	July 10,25	July 9,26
Low Noise Amplifier	MWRFTest	DLA8-18-40G-2078	AT065	GUANGZHOU NEM	July 10,25	July 9,26
Spectrum Analyzer 40G	Keysight	N9020B	AT066	GUANGZHOU NEM	May 13,25	May 12,26
Spectrum Analyzer 26.5G	Keysight	N9020A	AT050	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Radio switching unit	TiGroup	SU319	AT055	N/A	N/A	N/A
Filtering unit	TiGroup	SU319F	AT056	N/A	N/A	N/A
Test Software	BL	BL410-E V25.5 en	N/A	N/A	N/A	N/A
Above 1GHz Cable	Times Microwave Systems	SFT205-NMN M-7.0M+ SFT205-NMN M-2.0M	AT057+ AT058	GUANGZHOU NEM	July 09,25	July 08,26

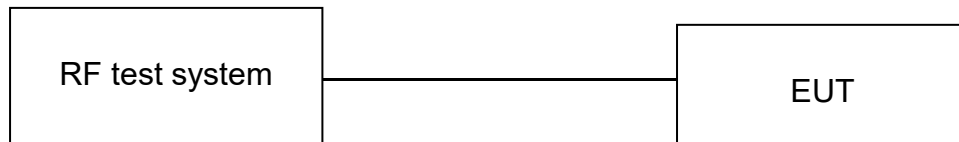
For Connect EUT Antenna Terminal Test (RF Test system)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum analyzer	Keysight	N9020A	AT050	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Analog signal source	Keysight	N5173B	AT051	GUANGZHOU NEM	Jun 12,25	Jun 11,26
WIDEBAND RADIO COMMUNICATION TESTER	Rohde&Schwarz	CMW500	AT052	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Power probe unit	Ti Group	SU319P	AT053	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Switch unit	Ti Group	SU319S	AT054	N/A	N/A	N/A
Test Software	BL	BL410R 3.5.2.621	N/A	N/A	N/A	N/A

3. DUTY CYCLE

3.1. Limit

None; for reporting purpose only.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
Centre frequency	CH36/CH38/CH42 CH149/CH151/CH155
RBW	8
VBW	8
Span	0
Sweep Time	Auto
Detector	Peak
Trace Mode	Single hold

3.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
-
- Spectrum analyzer setting parameters in accordance with section 3.3.
- When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- Duty Cycle= Transmission Duration (Tx On (s))/ Transmission Period(s)
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

3.5. Test Result

U-NII-1								
Mode	Channel	Center Frequency	Tx On	Tx Off	Period	Duty Cycle	Duty Cycle Factor	1/T
		(MHz)	(s)	(s)	(s)	%	(dB)	(Hz)
802.11a	CH36	5180	/	/	/	100	0	/
802.11n HT20	CH36	5180	/	/	/	100	0	/
802.11n HT40	CH38	5190	/	/	/	100	0	/
IEEE 802.11ac VHT20	CH36	5180	/	/	/	100	0	/
IEEE 802.11ac VHT40	CH38	5190	/	/	/	100	0	/
IEEE 802.11ac VHT80	CH42	5210	/	/	/	100	0	/

U-NII-3								
Mode	Channel	Center Frequency	Tx On	Tx Off	Period	Duty Cycle	Duty Cycle Factor	1/T
		(MHz)	(s)	(s)	(s)	%	(dB)	(Hz)
802.11a	CH149	5745	/	/	/	100	0	/
802.11n HT20	CH149	5745	/	/	/	100	0	/
802.11n HT40	CH151	5755	/	/	/	100	0	/
IEEE 802.11ac VHT20	CH149	5745	/	/	/	100	0	/
IEEE 802.11ac VHT40	CH151	5755	/	/	/	100	0	/
IEEE 802.11ac VHT80	CH155	5775	/	/	/	100	0	/

Note:

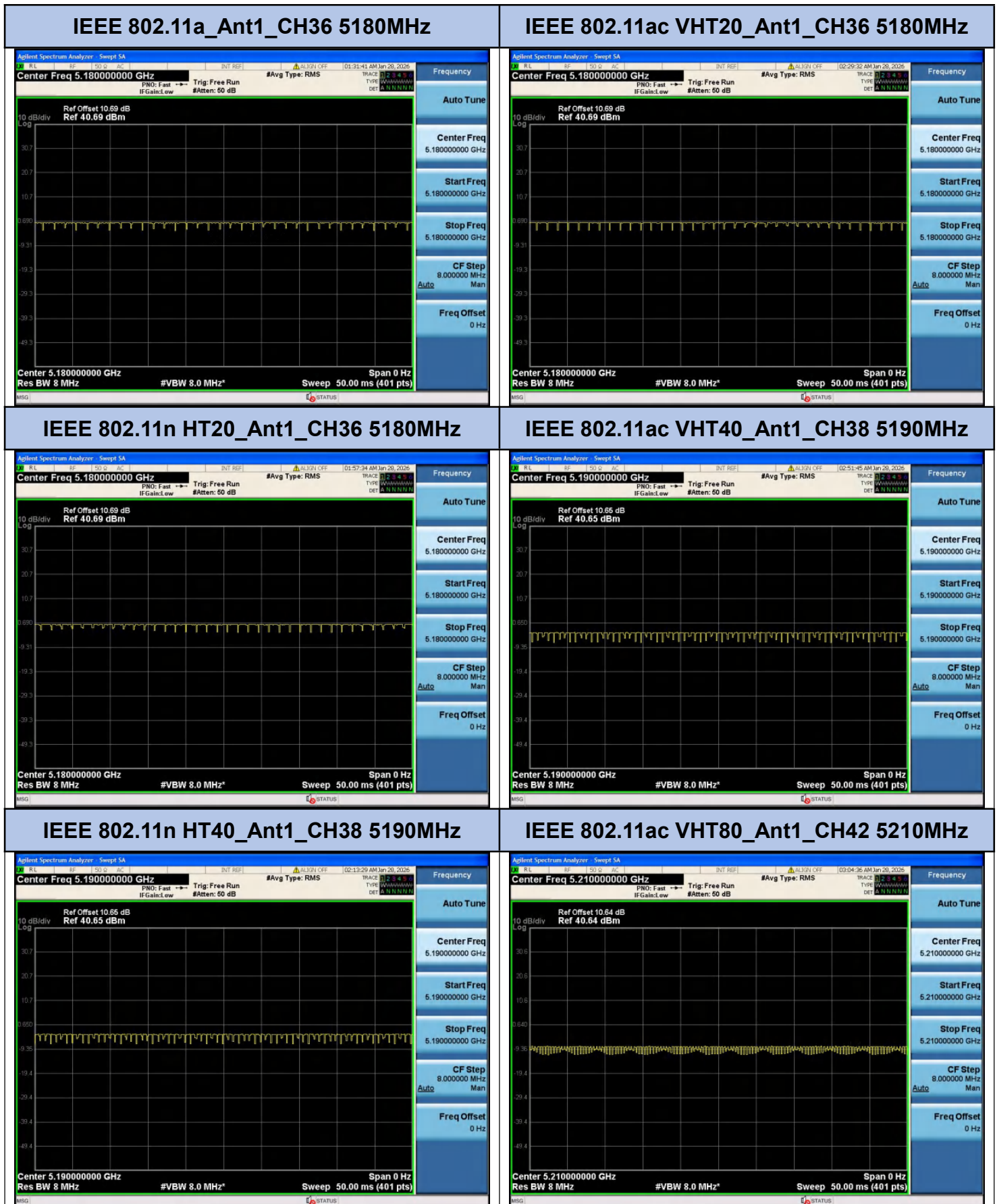
1. Duty Cycle=On Time(Tx On)/Total Time(Period).
2. Duty Factor=10×Log(1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle>98 %, the EUT is consider to be transmitting continuously, the conducted average

output power and average power spectral density no need to add duty factor.

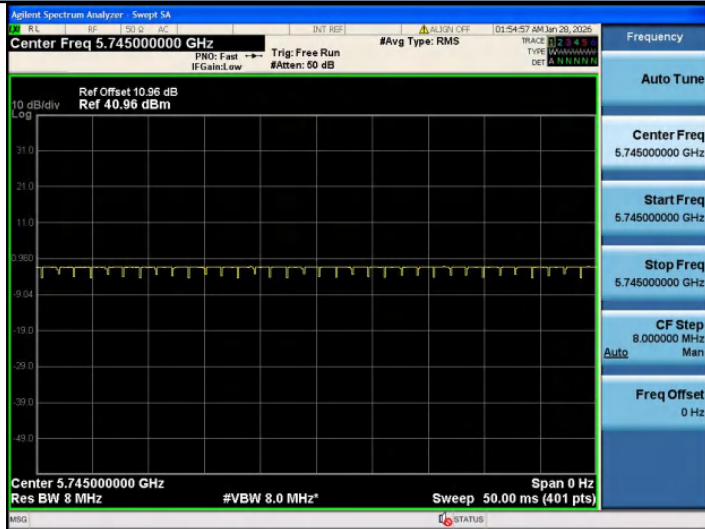
5. The on-time time is transmission duration(T).

6. The VBW Setting is use for RMS measurement in unwanted emissions and band edge (Above 1GHz) test.

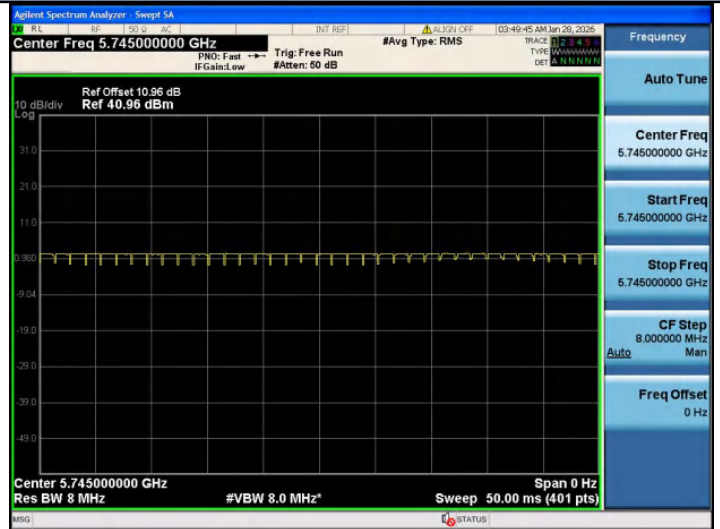
3.6. Original Test record



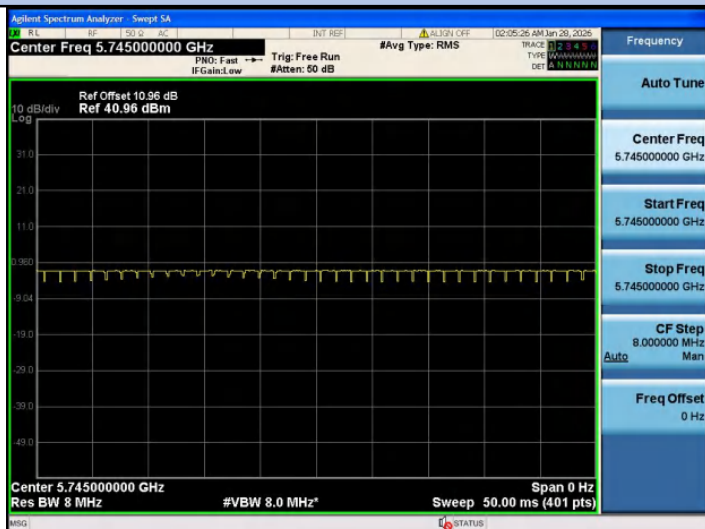
IEEE 802.11a_Ant1_CH149 5745MHz



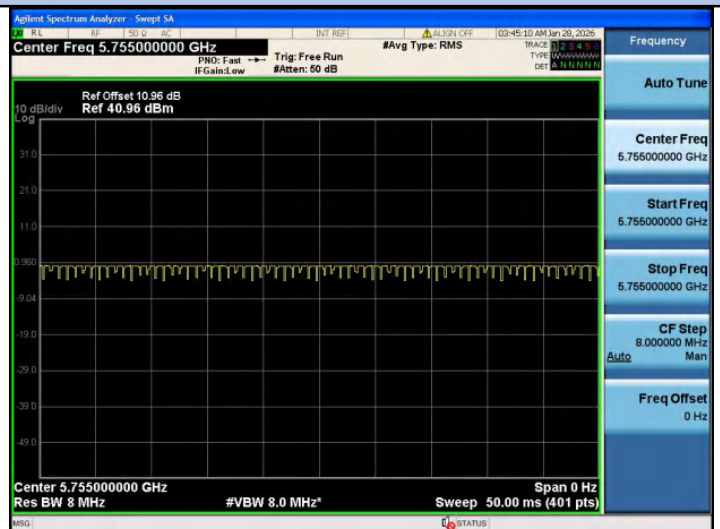
IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



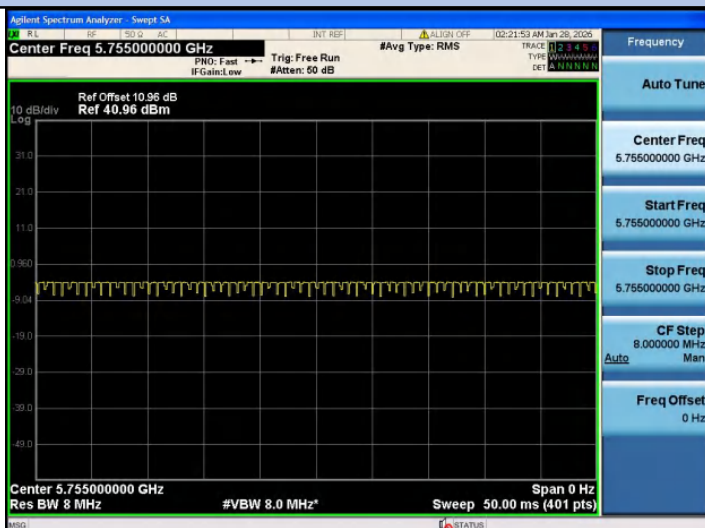
IEEE 802.11n HT20_Ant1_CH149 5745MHz



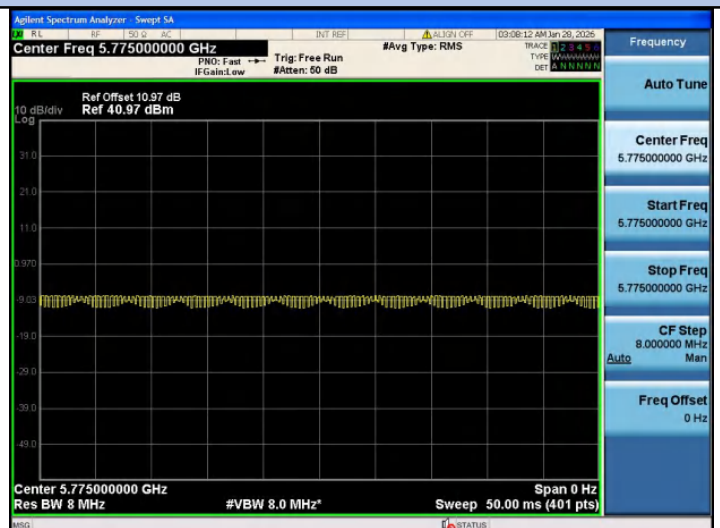
IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



IEEE 802.11n HT40_Ant1_CH151 5755MHz



IEEE 802.11ac VHT80_Ant1_CH155 5775MHz

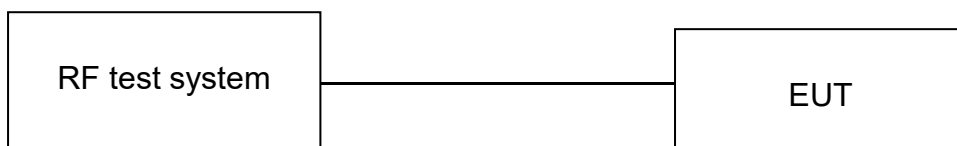


4. 26dB & 6dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

4.1. Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth & 99% occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth & 99% occupied Bandwidth	6dB Bandwidth≥500KHz

4.2. Test Setup



4.3. Spectrum Analyzer Setting

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	30MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	300KHz (20MHz Bandwidth mode) 510KHz (40MHz Bandwidth mode) 1KHz (80MHz Bandwidth mode)
VBW	1MHz (20MHz Bandwidth mode) 1.6MHz (40MHz Bandwidth mode) 3MHz (80MHz Bandwidth mode)
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

4.4. Test Procedure

For 26dB Bandwidth Measurement:

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement:

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to 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.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement:

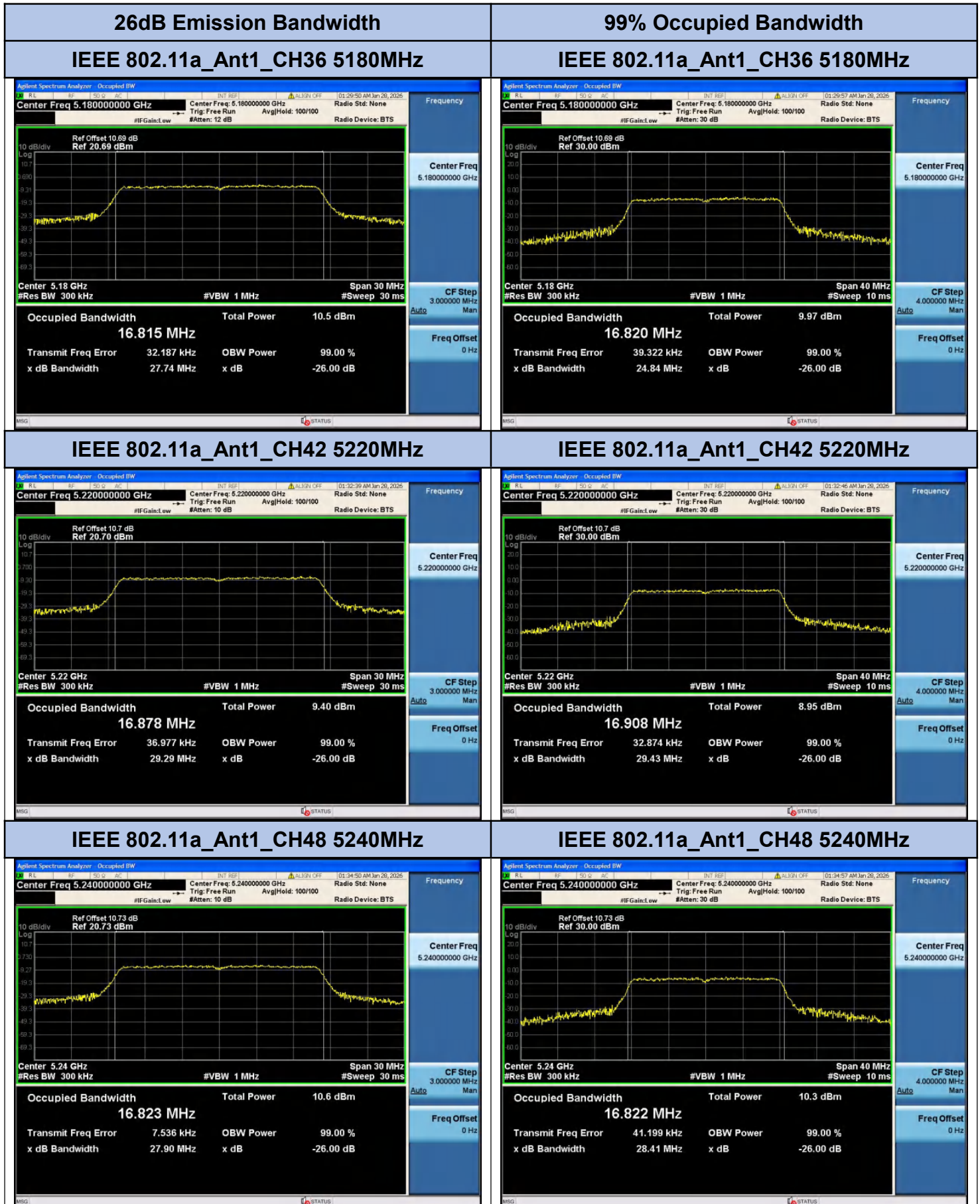
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

4.5. Test Result

Band	Test Mode	Channel& Frequency	26dB Emission Bandwidth	99% Occupied Bandwidth	Limit	Result
		MHz	MHz	MHz	KHz	
U-NII-1	IEEE 802.11a	CH36 5180	27.744	16.820	/	PASS
		CH42 5220	29.285	16.908		
		CH48 5240	27.903	16.822		
	IEEE 802.11n HT20	CH36 5180	28.242	17.736	/	PASS
		CH42 5220	29.835	17.836		
		CH48 5240	29.015	17.742		
	IEEE 802.11n HT40	CH38 5190	43.382	36.189	/	PASS
		CH46 5230	46.336	36.368		
	IEEE 802.11ac VHT20	CH36 5180	29.042	17.743	/	PASS
		CH42 5220	29.541	17.857		
		CH48 5240	29.699	17.756		
	IEEE 802.11ac VHT40	CH38 5190	43.773	36.225	/	PASS
		CH46 5230	46.412	36.347		
	IEEE 802.11ac VHT80	CH42 5210	85.199	75.674	/	PASS

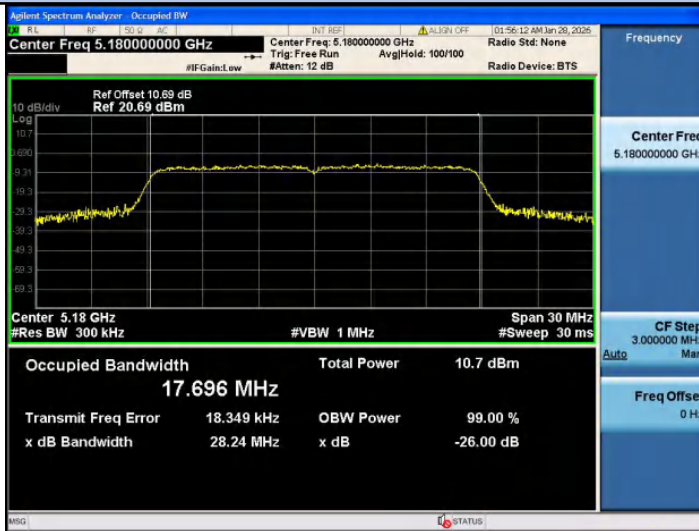
Band	Test Mode	Channel& Frequency	6dB Emission Bandwidth	99% Occupied Bandwidth	Limit	Result
		MHz	MHz	MHz	KHz	
U-NII-3	IEEE 802.11a	CH149 5745	16.473	16.828	500	PASS
		CH157 5785	16.493	17.029		
		CH165 5825	16.432	16.923		
	IEEE 802.11n HT20	CH149 5745	17.437	17.760	500	PASS
		CH157 5785	17.645	17.968		
		CH165 5825	17.500	17.816		
	IEEE 802.11n HT40	CH151 5755	35.843	36.166	500	PASS
		CH159 5795	36.120	36.547		
	IEEE 802.11ac VHT20	CH149 5745	17.560	17.860	500	PASS
		CH157 5785	17.617	17.962		
		CH165 5825	17.547	17.850		
	IEEE 802.11ac VHT40	CH151 5755	35.890	36.189	500	PASS
		CH159 5795	36.316	36.433		
	IEEE 802.11ac VHT80	CH155 5775	76.217	75.707	500	PASS

4.6.Original Test record



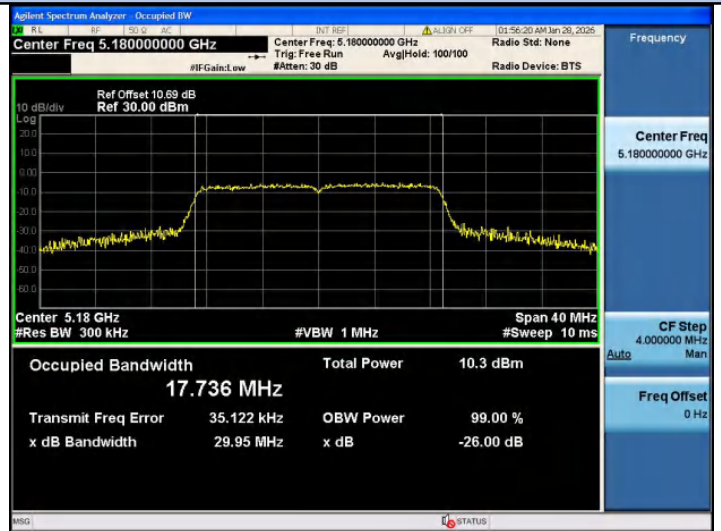
26dB Emission Bandwidth

IEEE 802.11n HT20_Ant1_CH36 5180MHz



99% Occupied Bandwidth

IEEE 802.11n HT20_Ant1_CH36 5180MHz



IEEE 802.11n HT20_Ant1_CH42 5220MHz



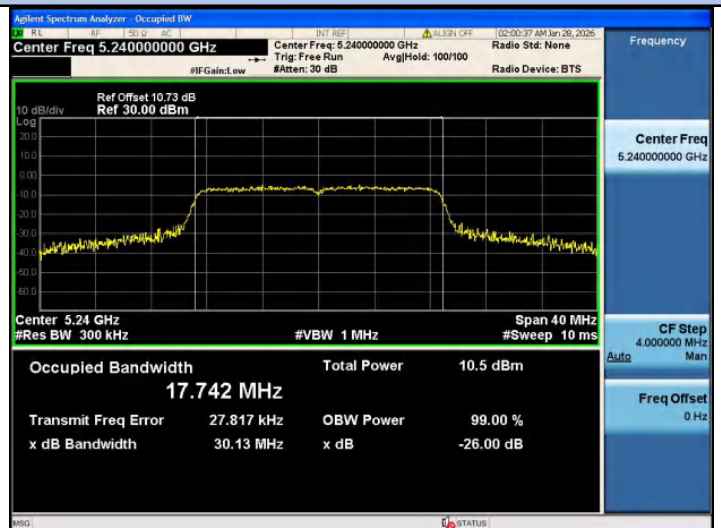
IEEE 802.11n HT20_Ant1_CH42 5220MHz

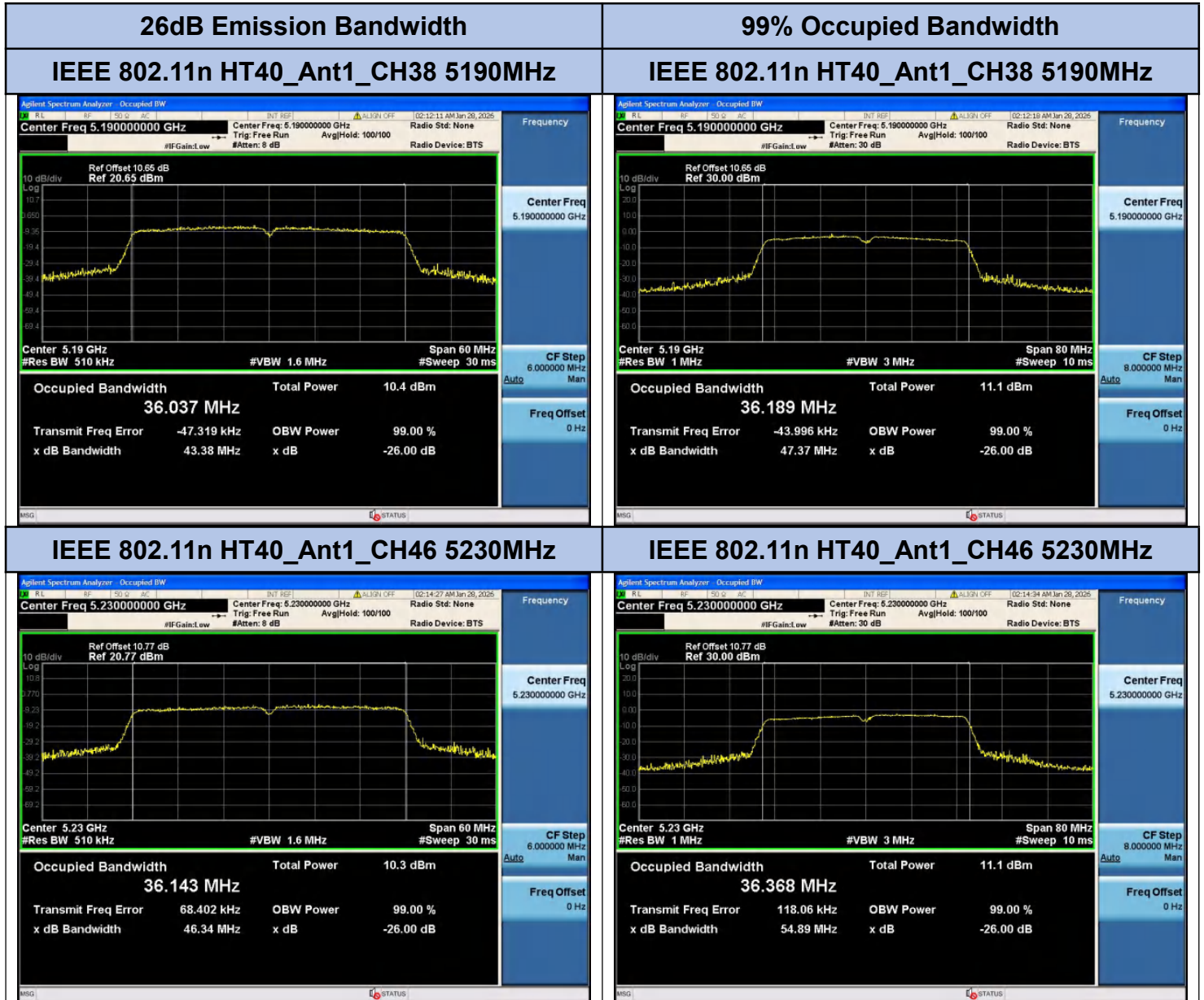


IEEE 802.11n HT20_Ant1_CH48 5240MHz



IEEE 802.11n HT20_Ant1_CH48 5240MHz





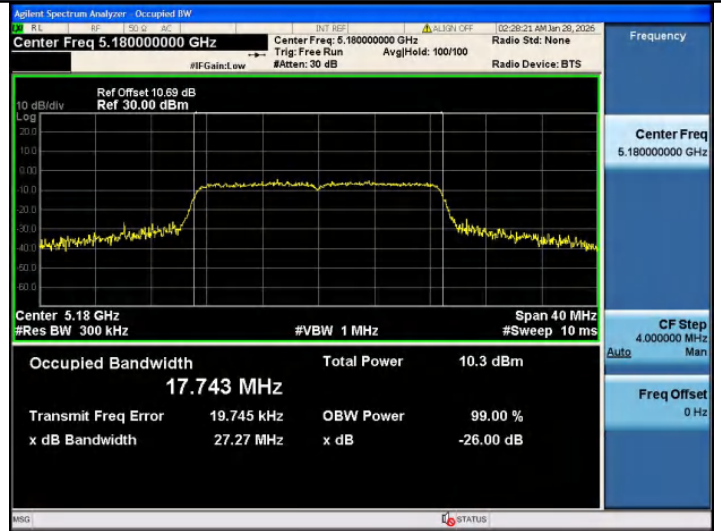
26dB Emission Bandwidth

IEEE 802.11ac VHT20_Ant1_CH36 5180MHz

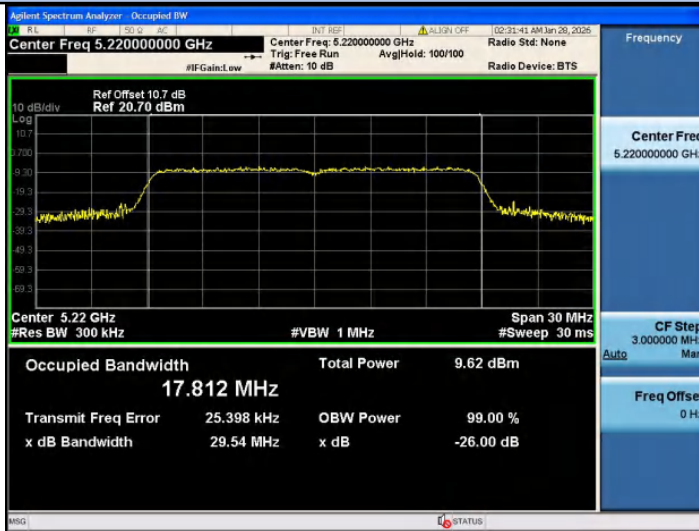


99% Occupied Bandwidth

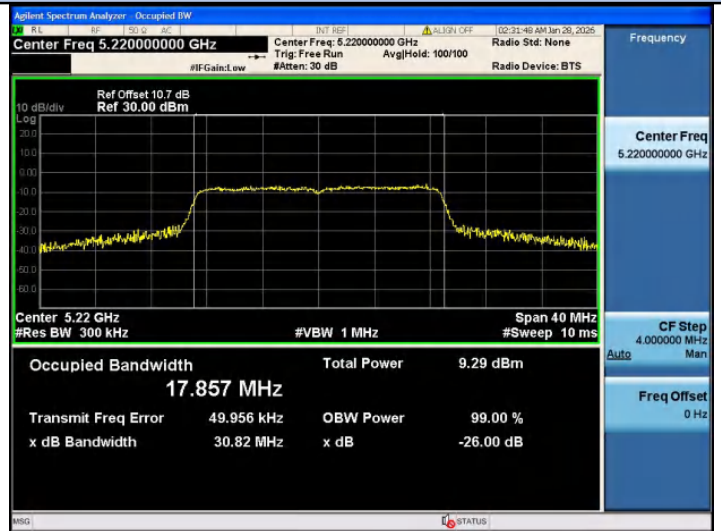
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



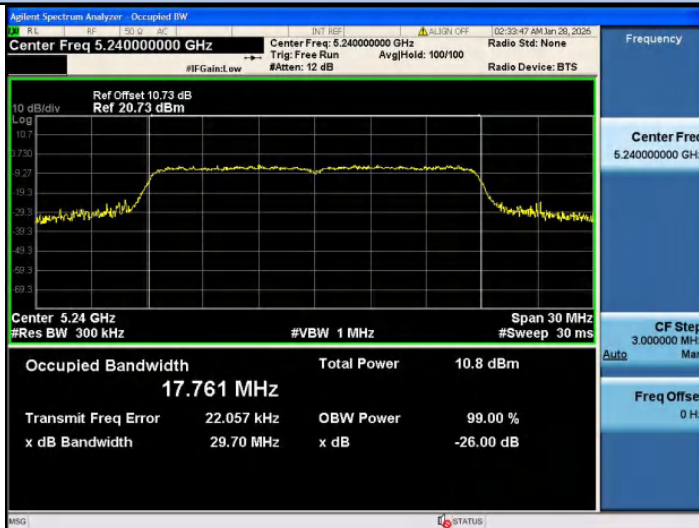
IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



IEEE 802.11ac VHT20_Ant1_CH42 5220MHz

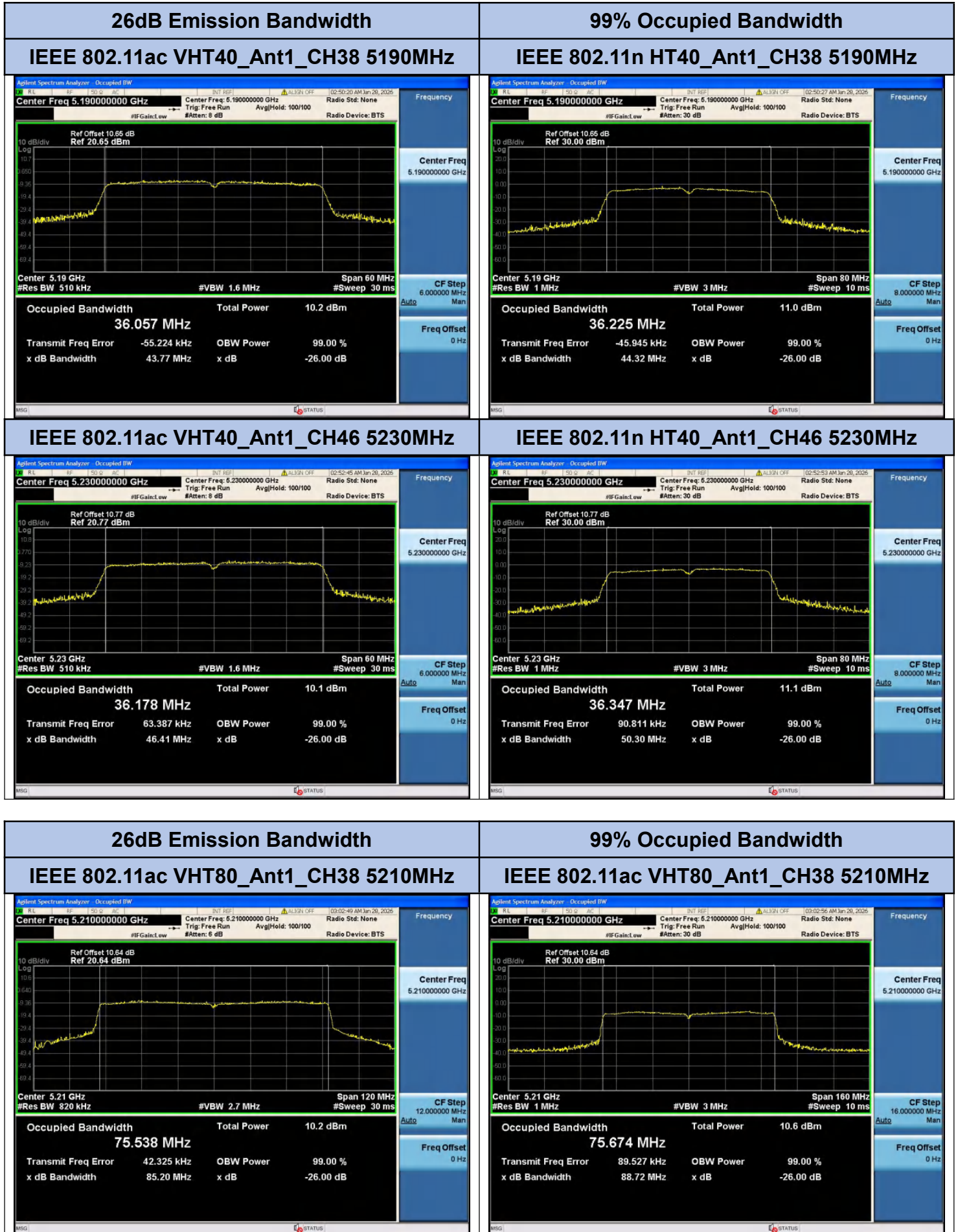


IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



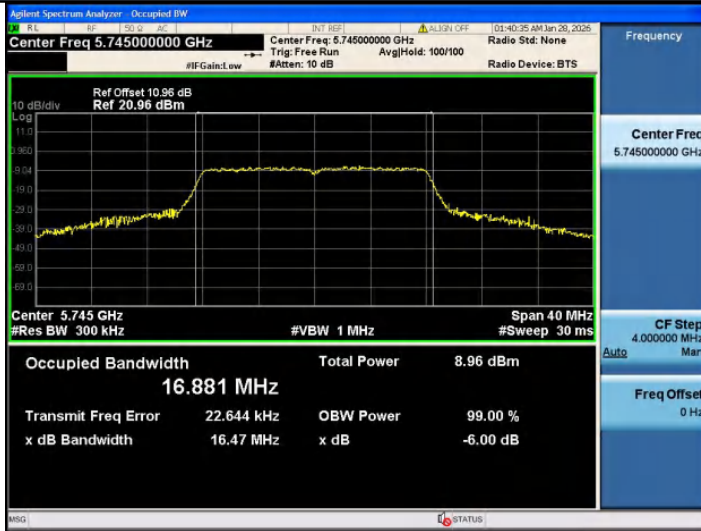
IEEE 802.11ac VHT20_Ant1_CH48 5240MHz





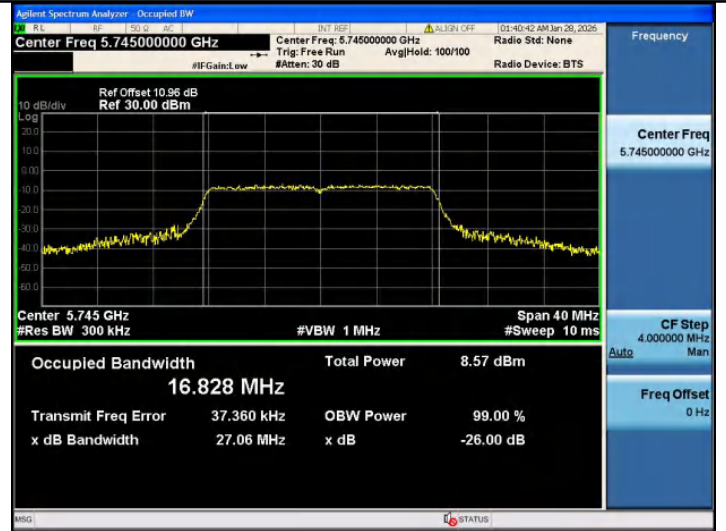
6dB Emission Bandwidth

IEEE 802.11a_Ant1_CH149 5745MHz



99% Occupied Bandwidth

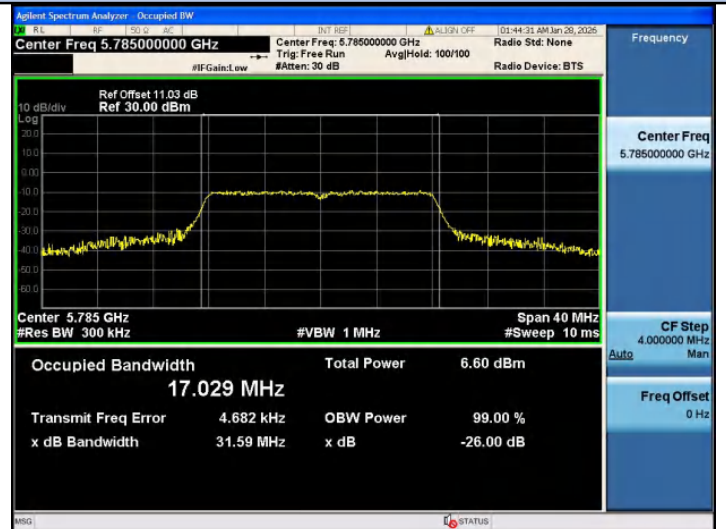
IEEE 802.11a_Ant1_CH149 5745MHz



IEEE 802.11a_Ant1_CH157 5785MHz



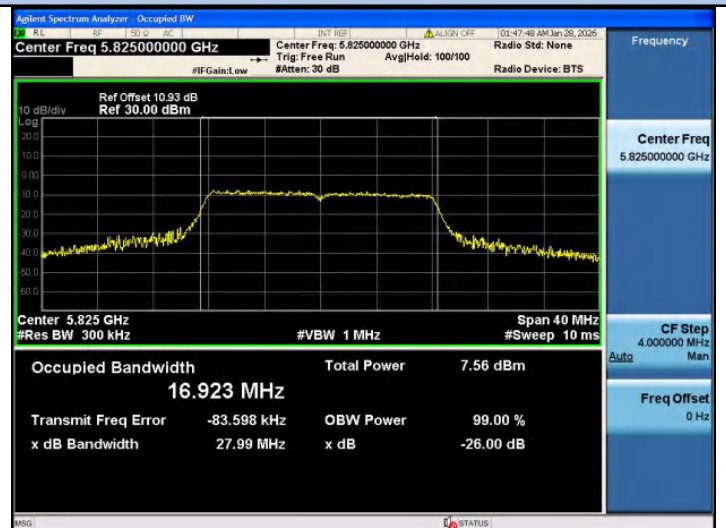
IEEE 802.11a_Ant1_CH157 5785MHz



IEEE 802.11a_Ant1_CH165 5825MHz

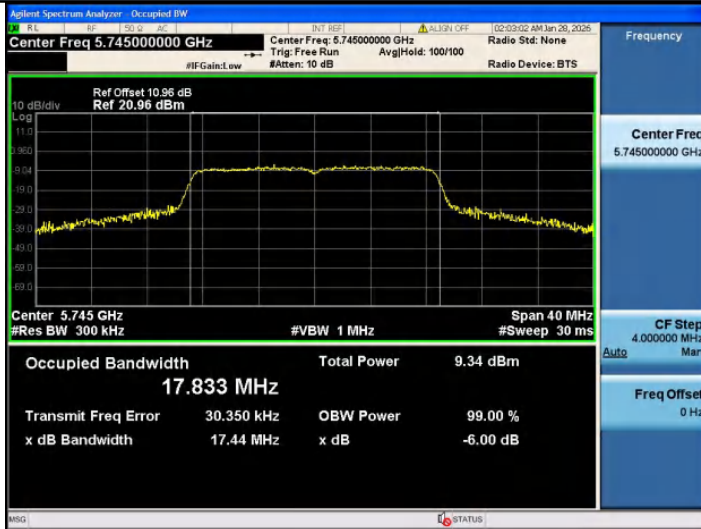


IEEE 802.11a_Ant1_CH165 5825MHz



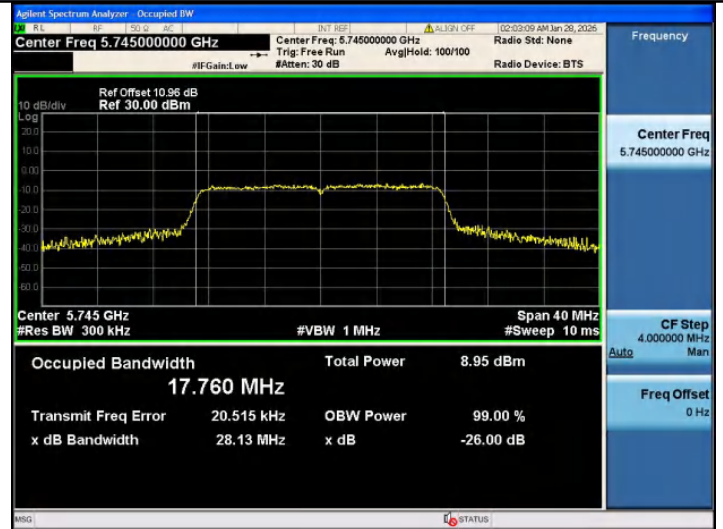
6dB Emission Bandwidth

IEEE 802.11n HT20_Ant1_CH149 5745MHz



99% Occupied Bandwidth

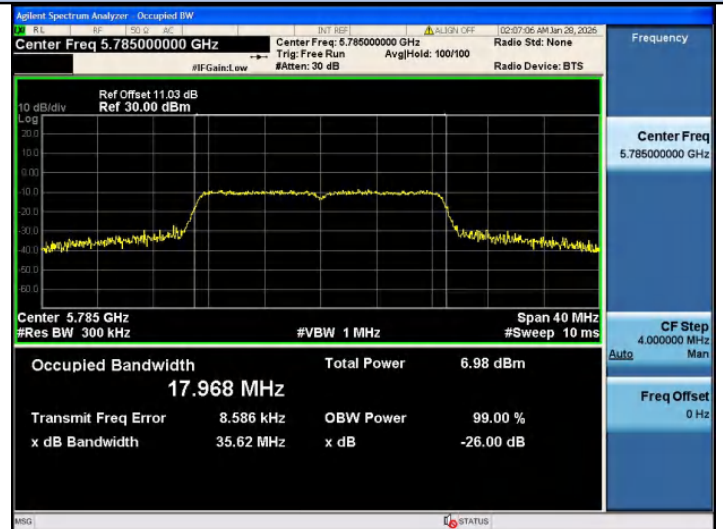
IEEE 802.11n HT20_Ant1_CH149 5745MHz



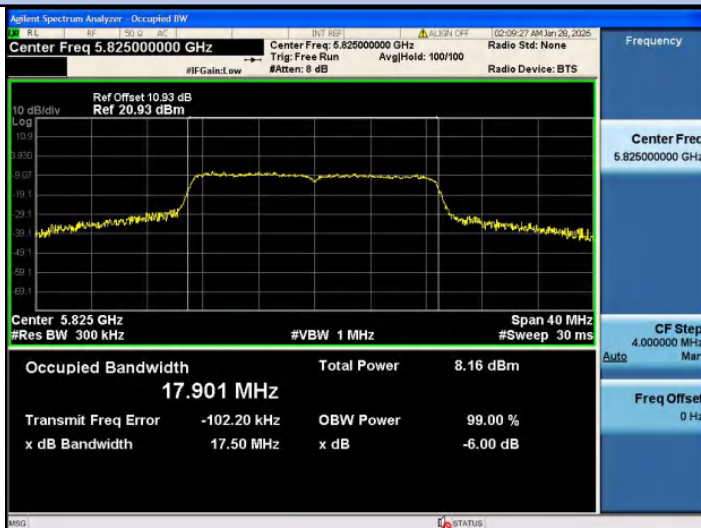
IEEE 802.11n HT20_Ant1_CH157 5785MHz



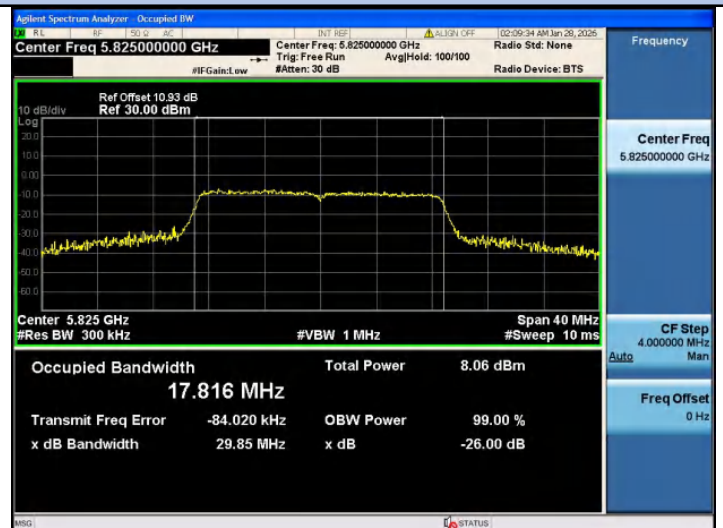
IEEE 802.11n HT20_Ant1_CH157 5785MHz



IEEE 802.11n HT20_Ant1_CH165 5825MHz

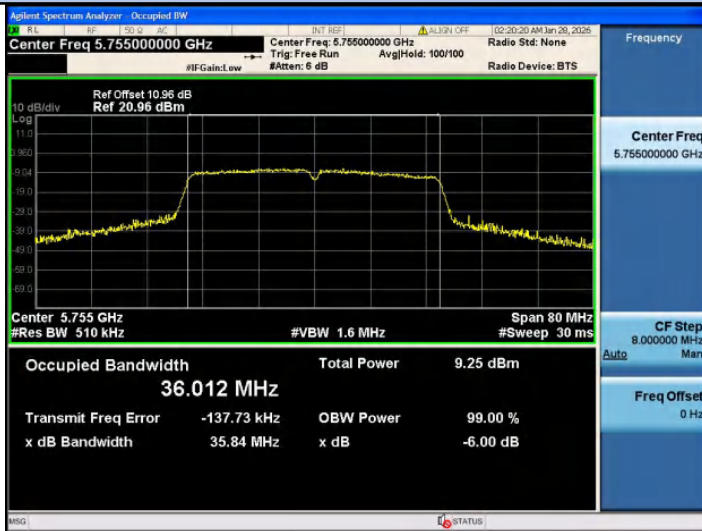


IEEE 802.11n HT20_Ant1_CH165 5825MHz



6dB Emission Bandwidth

IEEE 802.11n HT40_Ant1_CH151 5755MHz

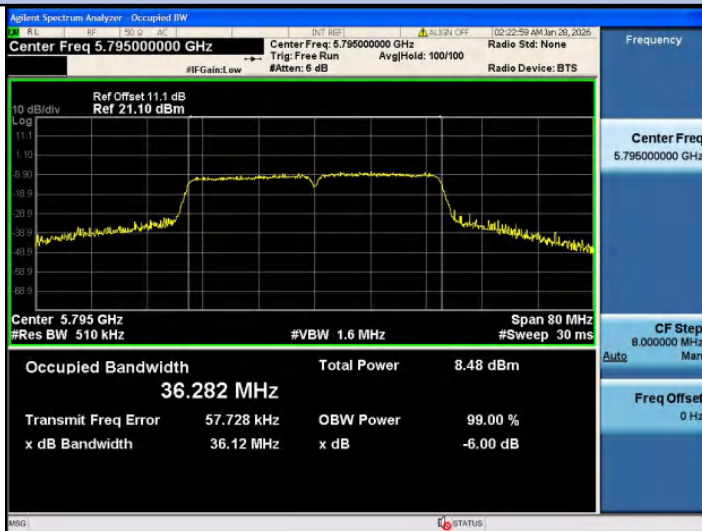


99% Occupied Bandwidth

IEEE 802.11n HT40_Ant1_CH151 5755MHz



IEEE 802.11n HT40_Ant1_CH159 5795MHz

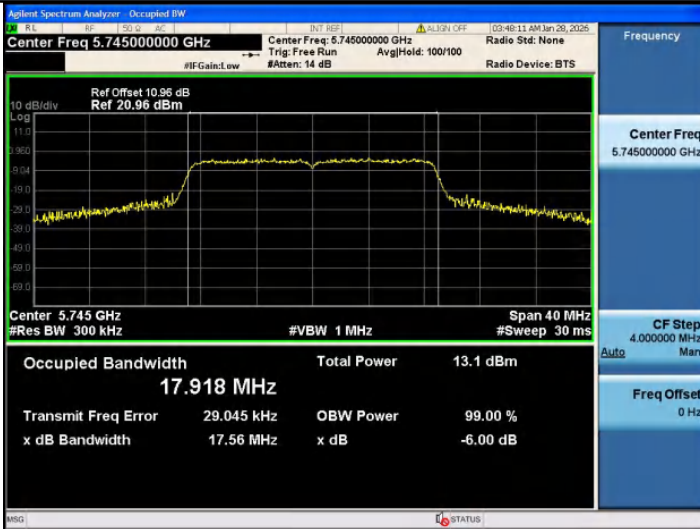


IEEE 802.11n HT40_Ant1_CH159 5795MHz



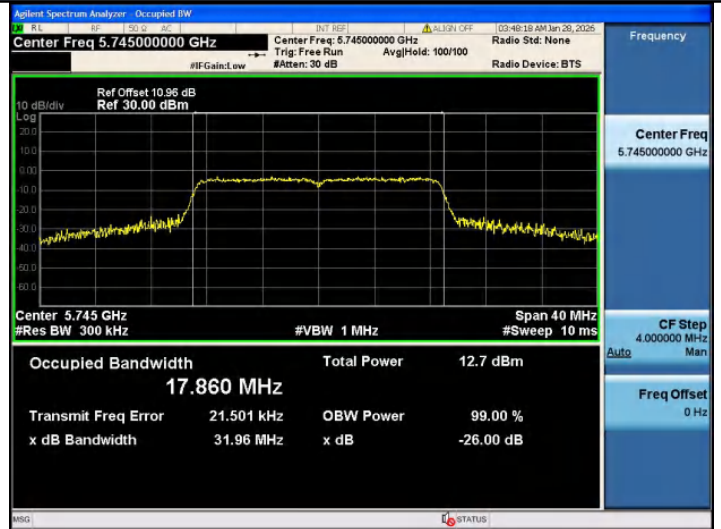
6dB Emission Bandwidth

IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



99% Occupied Bandwidth

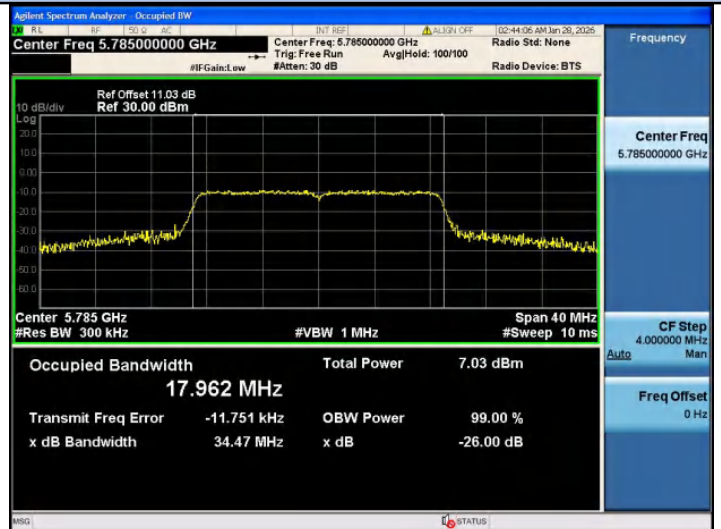
IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



IEEE 802.11ac VHT20_Ant1_CH157 5785MHz

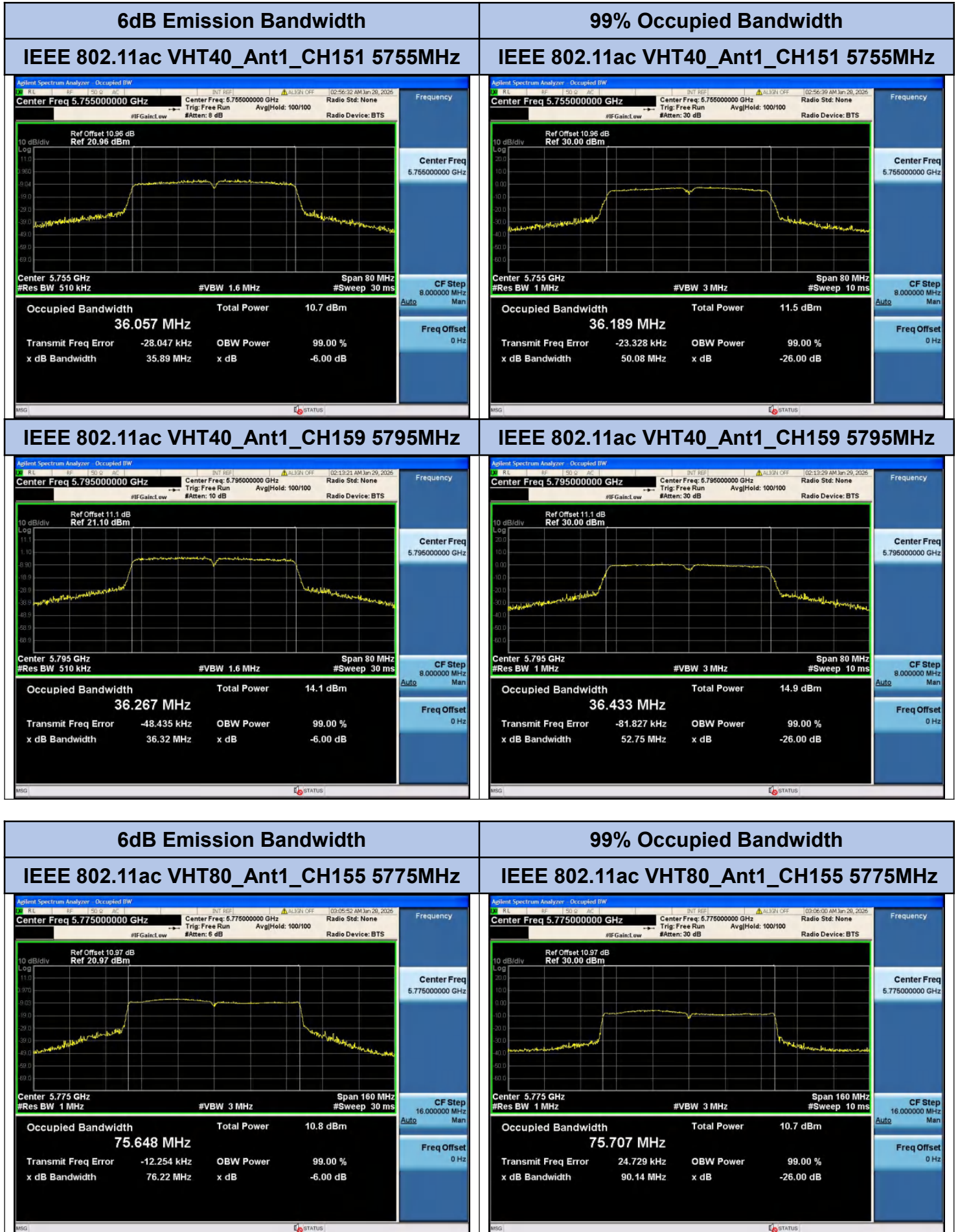


IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



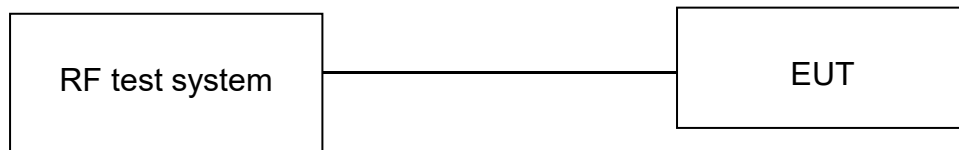


5. MAXIMUM CONDUCTED OUTPUT POWER

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W (30dBm) (Max. e.i.r.p≤125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W (30dBm)
	Fixed point-to-point Access Point	1W (30dBm)
	Mobile and Portable Client Device	250mw (23.98dBm)
U-NII-3	AllDevice	1W (30dBm)

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	30MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

- The test according to ANSI C63.10 clause 11.9.2.3.
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Use the channel power function to measure maximum peak output power, allow trace to stabilize, save test pictures.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

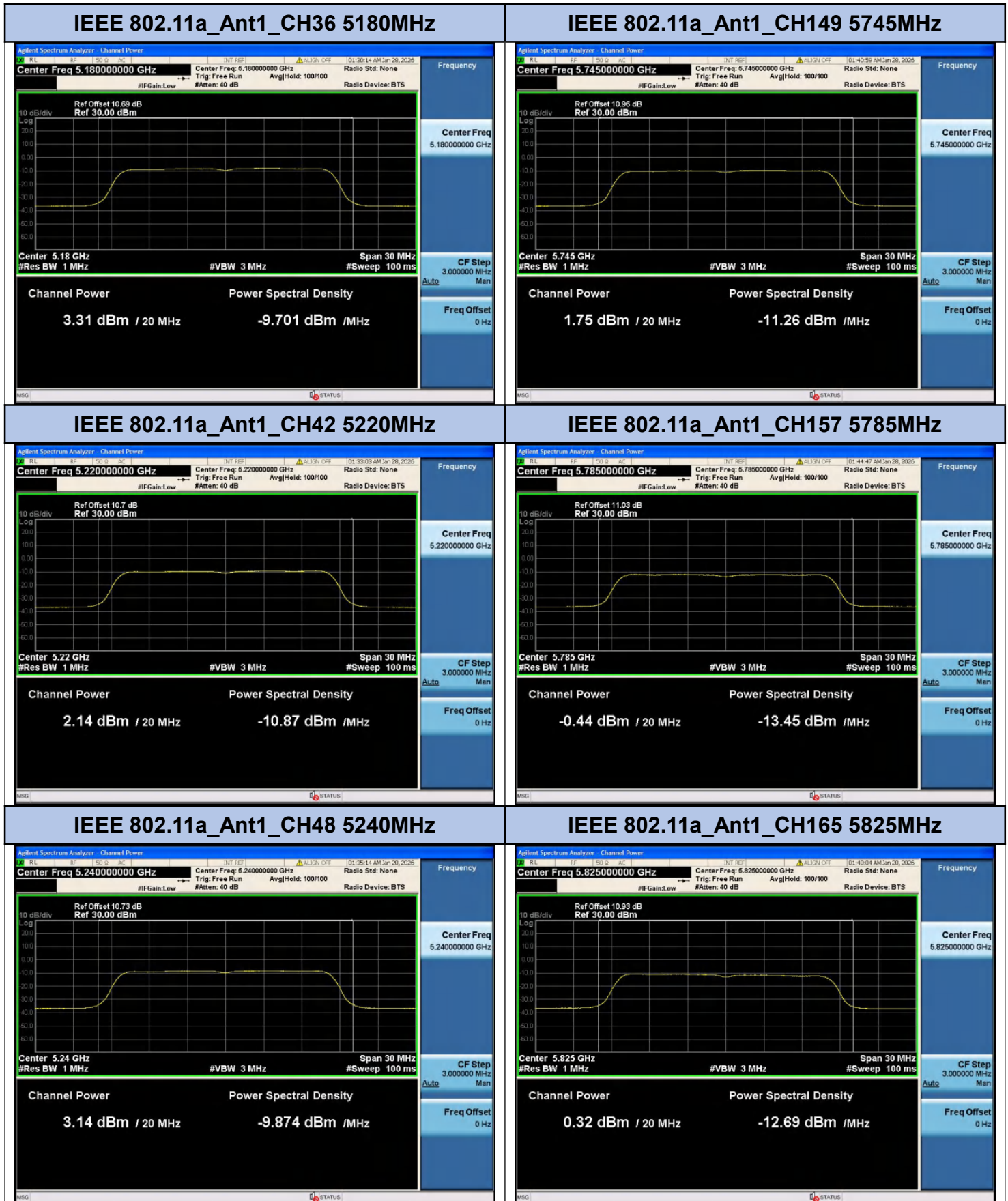
5.5. Test Result

Band	Test Mode	Channel& Frequency	AV Output Power	Duty Cycle Factor	Output Power Calculation	Limit	Result
		MHz	dBm	dB	dBm	dBm	
U-NII-1	IEEE 802.11a	CH36 5180	3.31	0	3.31	≤23.98	PASS
		CH42 5220	2.14		2.14		
		CH48 5240	3.14		3.14		
	IEEE 802.11n HT20	CH36 5180	3.37	0	3.37		
		CH42 5220	2.17		2.17		
		CH48 5240	3.44		3.44		
	IEEE 802.11n HT40	CH38 5190	2.74	0	2.74		
		CH46 5230	2.53		2.53		
	IEEE 802.11ac VHT20	CH36 5180	3.33	0	3.33		
		CH42 5220	2.25		2.25		
		CH48 5240	3.45		3.45		
	IEEE 802.11ac VHT40	CH38 5190	2.52	0	2.52		
		CH46 5230	2.49		2.49		
	IEEE 802.11ac VHT80	CH42 5210	1.94	0	1.94		
U-NII-3	IEEE 802.11a	CH149 5745	1.75	0	1.75	≤30.00	PASS
		CH157 5785	-0.44		-0.44		
		CH165 5825	0.32		0.32		
	IEEE 802.11n HT20	CH149 5745	2.09	0	2.09		
		CH157 5785	-0.12		-0.12		
		CH165 5825	0.79		0.79		
	IEEE 802.11n HT40	CH151 5755	1.61	0	1.61		
		CH159 5795	0.71		0.71		
	IEEE 802.11ac VHT20	CH149 5745	5.81	0	5.81		
		CH157 5785	-0.10		-0.10		
		CH165 5825	0.64		0.64		
	IEEE 802.11ac VHT40	CH151 5755	3.08	0	3.08		
		CH159 5795	5.27		5.27		
	IEEE 802.11ac VHT80	CH155 5775	1.91	0	1.91		

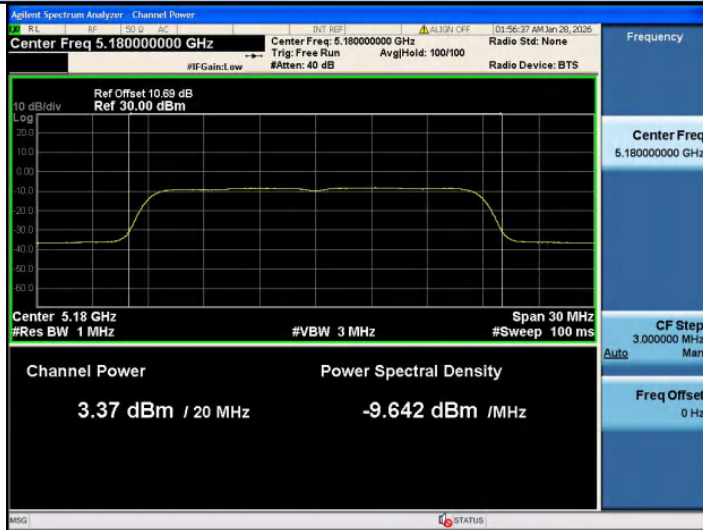
Note 1: If the test results under the Peak detector meet the limit requirements, then there is no need to consider the coefficient obtained by multiplying by the Duty cycle.

Note 2: Duty Cycle Factor is derived from the report "Section 3 - DUTY CYCLE"

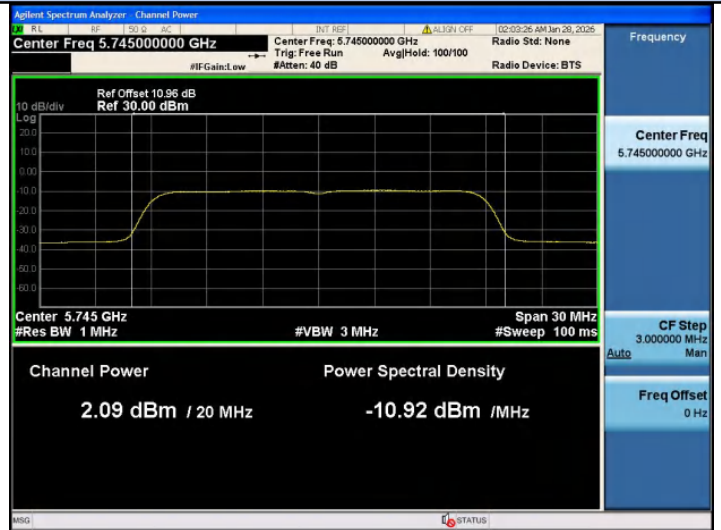
5.6.Original Test record



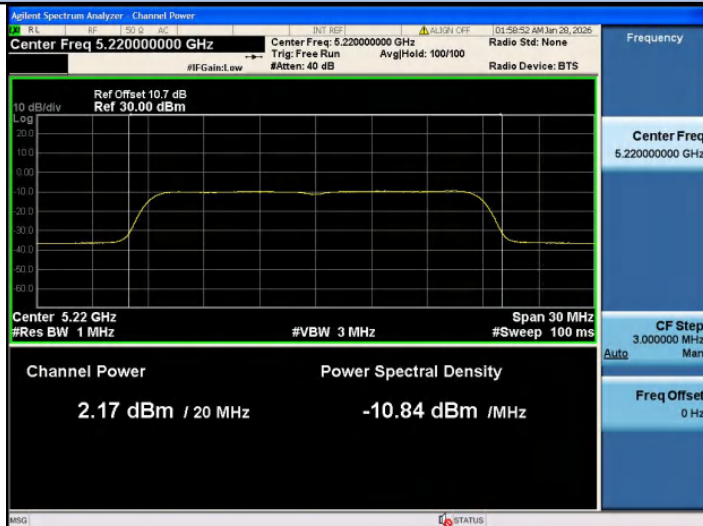
IEEE 802.11n HT20_Ant1_CH36 5180MHz



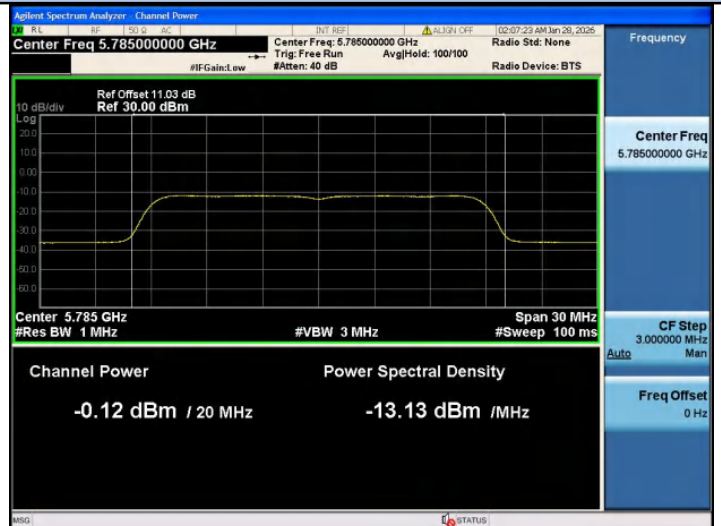
IEEE 802.11n HT20_Ant1_CH149 5745MHz



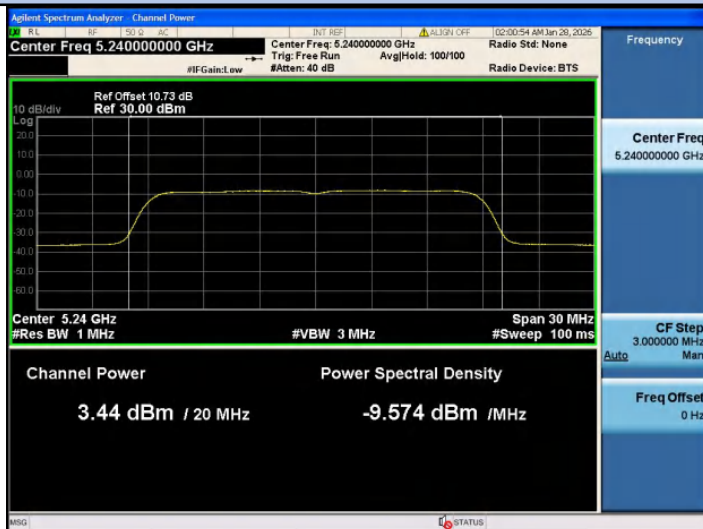
IEEE 802.11n HT20_Ant1_CH42 5220MHz



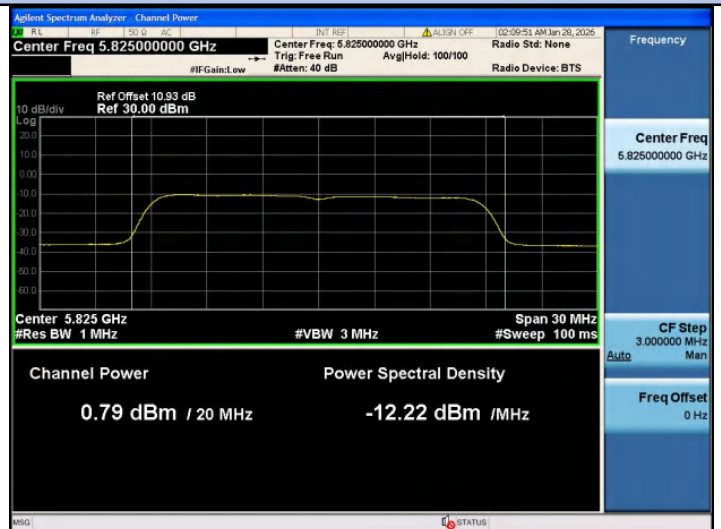
IEEE 802.11n HT20_Ant1_CH157 5785MHz



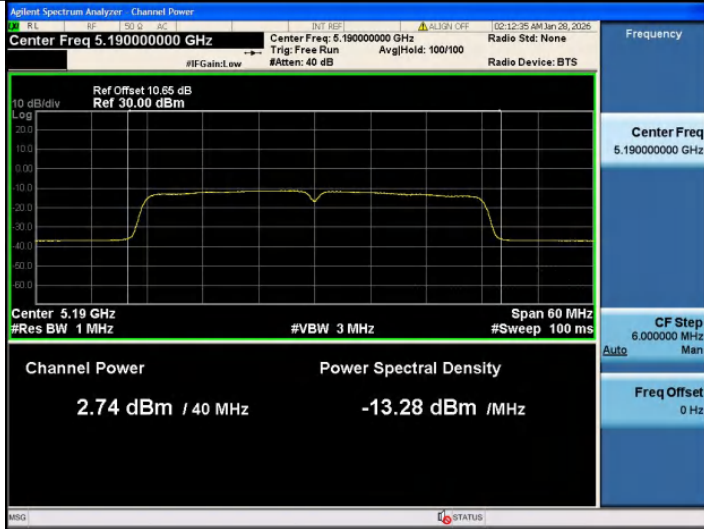
IEEE 802.11n HT20_Ant1_CH48 5240MHz



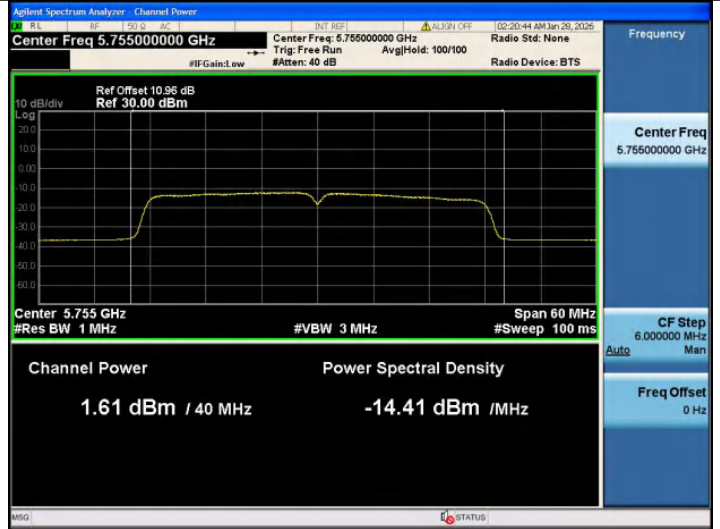
IEEE 802.11n HT20_Ant1_CH165 5825MHz



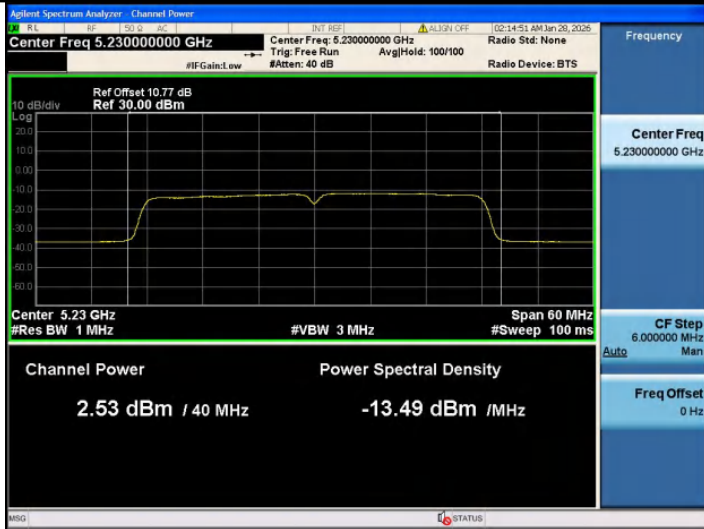
IEEE 802.11n HT40_Ant1_CH38 5190MHz



IEEE 802.11n HT40_Ant1_CH151 5755MHz



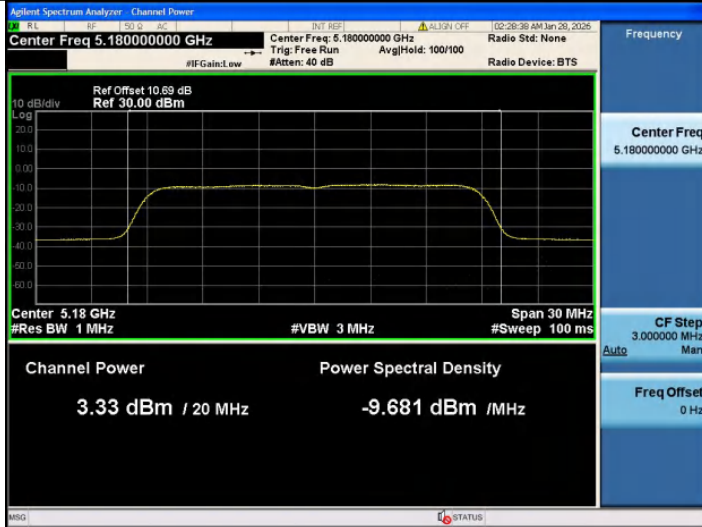
IEEE 802.11n HT40_Ant1_CH46 5230MHz



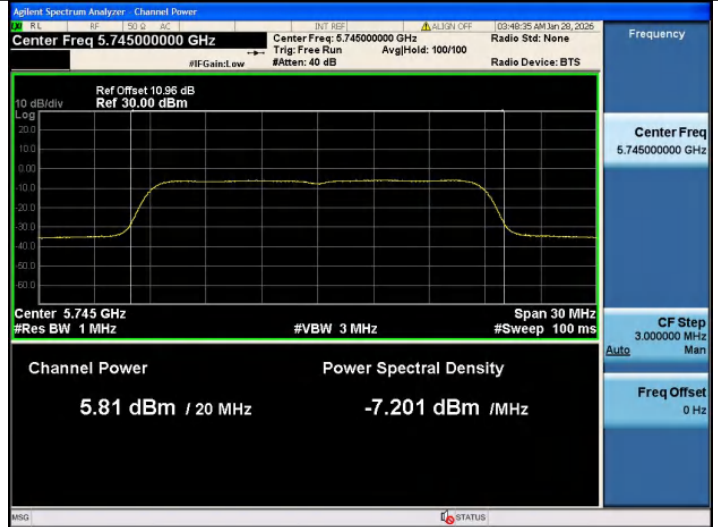
IEEE 802.11n HT40_Ant1_CH159 5795MHz



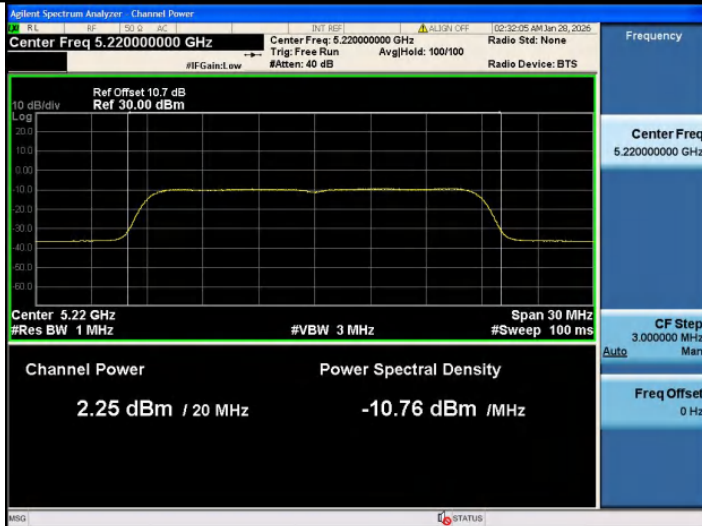
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



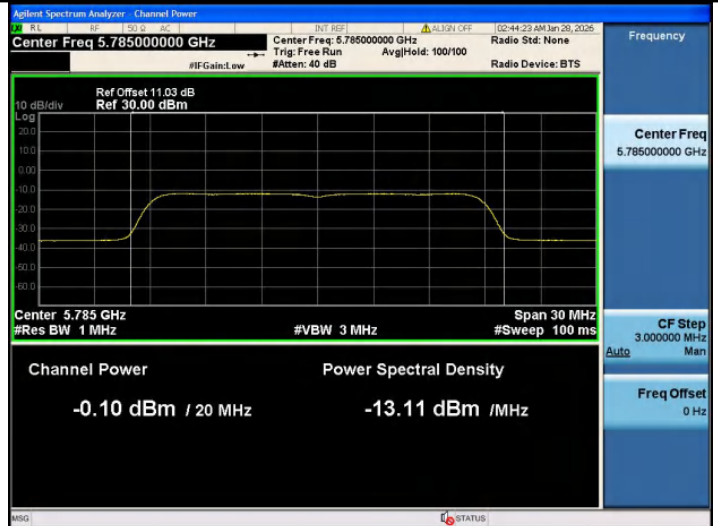
IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



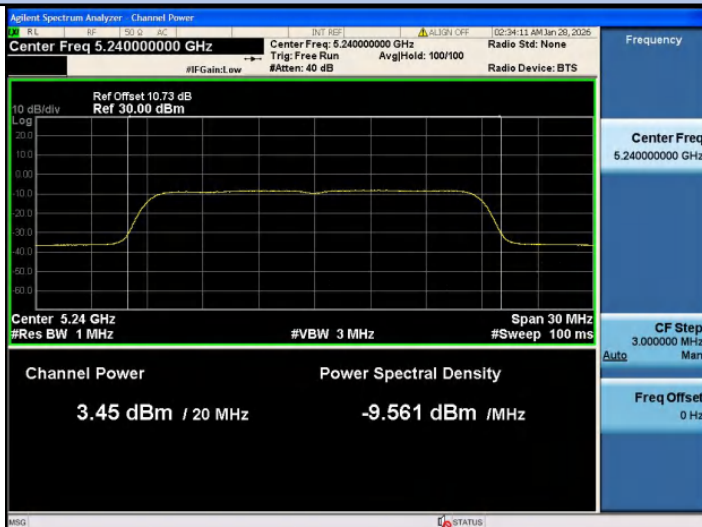
IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



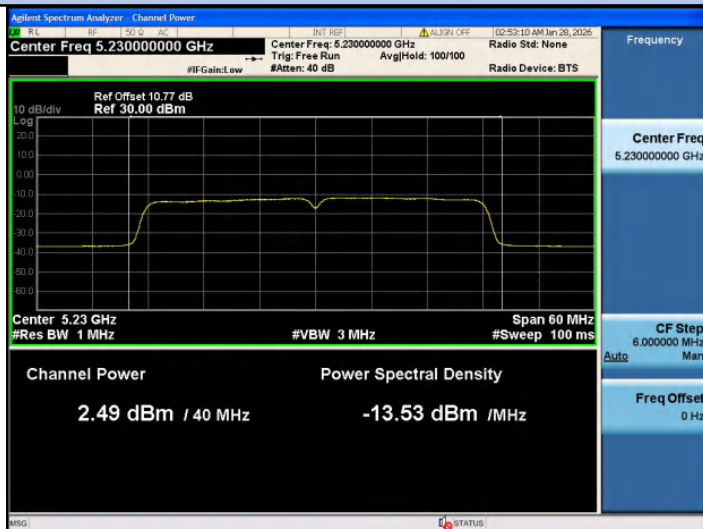
IEEE 802.11a HT40_Ant1_CH38 5190MHz



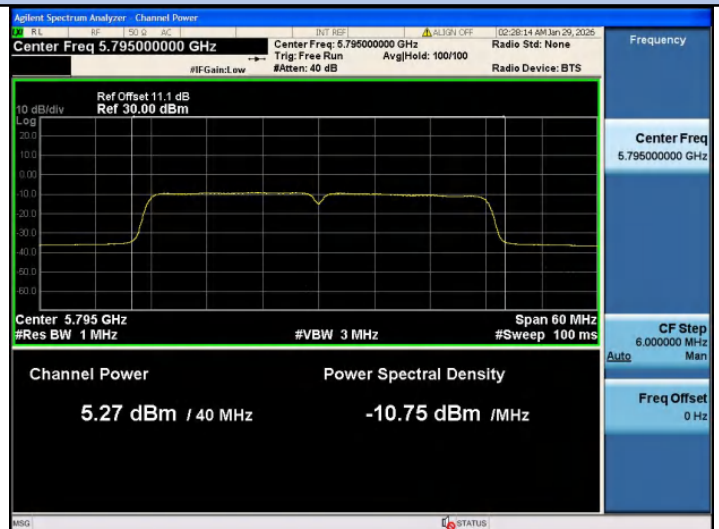
IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



IEEE 802.11c HT40_Ant1_CH46 5230MHz



IEEE 802.11ac VHT40_Ant1_CH159 5795MHz



IEEE 802.11ac VHT80_Ant1_CH38 5210MHz



IEEE 802.11ac VHT80_Ant1_CH155 5775MHz

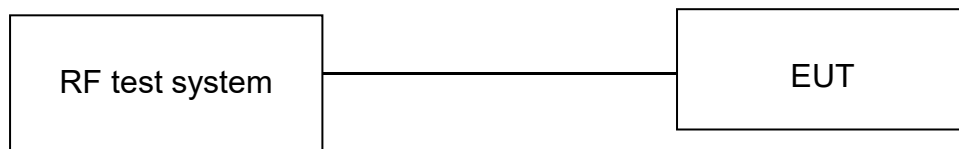


6. POWER SPECTRAL DENSITY

6.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Indoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	17 dBm/MHz
	Mobile and Portable Client Device	11 dBm/MHz
U-NII-3	All Device	30 dBm/500kHz

6.2.Test Setup



6.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz (For U-NII-1), 510KHz (For U-NII-3)
VBW	3MHz (For U-NII-), 2MHz (For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS (power averaging)
Trace Mode	Max Hold

6.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- If the duty cycle of test signal < 98%, the result = max measured value + $10 \times \log(1/\text{duty cycle})$:
If the duty cycle of test signal > 98%, the result = max measured value.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.
- Note: If the test results under the Peak detector meet the limit requirements, then there is no need to consider the coefficient obtained by multiplying by the Duty cycle.

6.5. Test Result

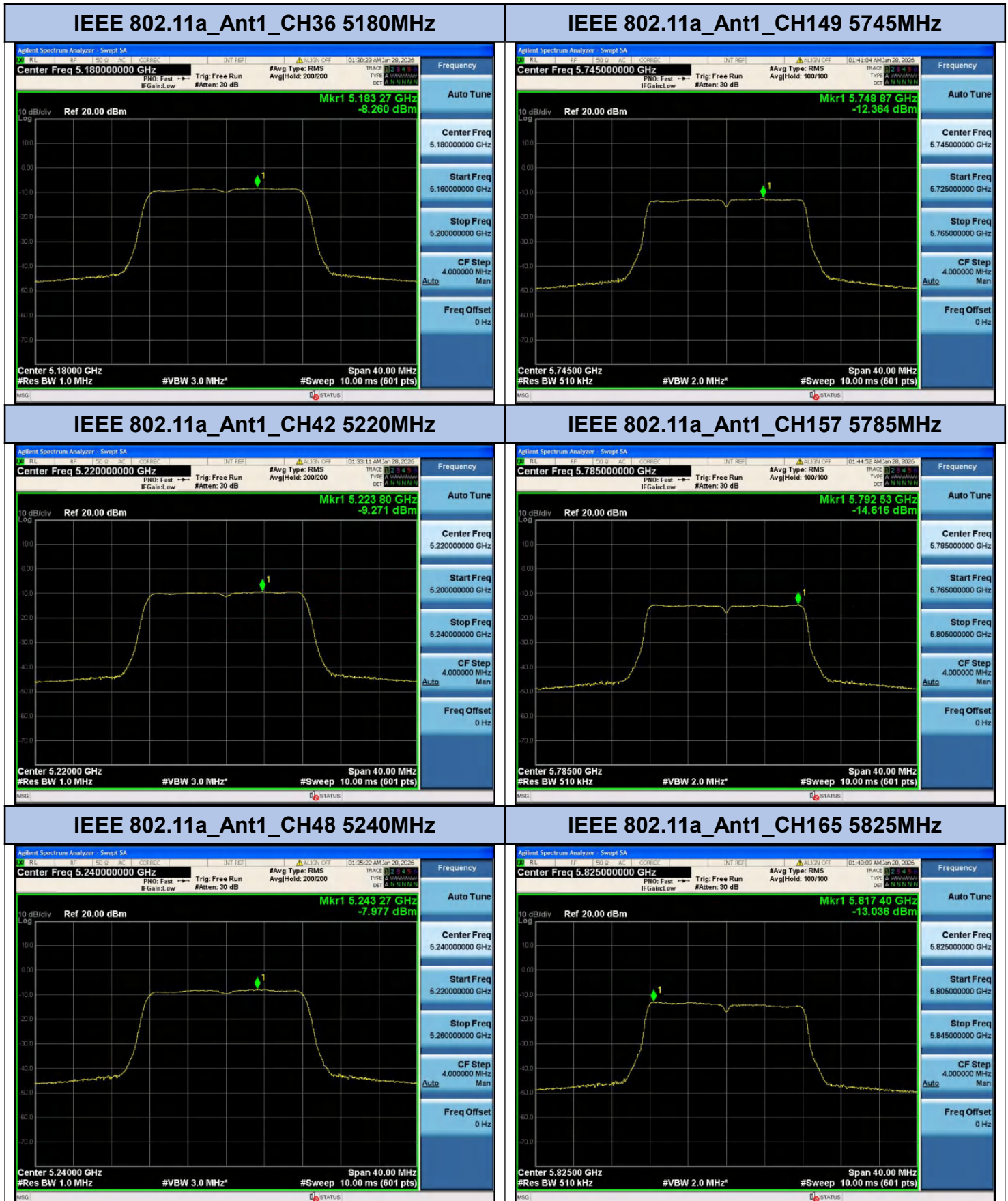
U-NII-1						
Test Mode	Channel& Frequency	PSD (RMS)	Duty Cycle Factor	PSD Calculation	Limit	Result
	MHz	dBm/MHz	dB	dBm/MHz	dBm/MHz	
IEEE 802.11a	CH36 5180	-8.260	0	-8.260	≤11	PASS
	CH42 5220	-9.271		-9.271		
	CH48 5240	-7.977		-7.977		
IEEE 802.11n HT20	CH36 5180	-8.101	0	-8.101		
	CH42 5220	-9.179		-9.179		
	CH48 5240	-8.088		-8.088		
IEEE 802.11n HT40	CH38 5190	-11.445	0	-11.445		
	CH46 5230	-11.534		-11.534		
IEEE 802.11ac VHT20	CH36 5180	-8.191	0	-8.191		
	CH42 5220	-9.163		-9.163		
	CH48 5240	-7.960		-7.960		
IEEE 802.11ac VHT40	CH38 5190	-11.279	0	-11.279		
	CH46 5230	-11.558		-11.558		
IEEE 802.11ac VHT80	CH42 5210	-15.568	0	-15.568		
U-NII-3						
Test Mode	Channel& Frequency	PSD (RMS)	Duty Cycle Factor	PSD Calculation	Limit	Result
	MHz	dBm/510KHz	dB	dBm/510KHz	dBm/500KHz	
IEEE 802.11a	CH149 5745	-12.364	0	-12.364	≤30	PASS
	CH157 5785	-14.616		-14.616		
	CH165 5825	-13.036		-13.036		
IEEE 802.11n HT20	CH149 5745	-12.336	0	-12.336		
	CH157 5785	-14.582		-14.582		
	CH165 5825	-12.955		-12.955		
IEEE 802.11n HT40	CH151 5755	-15.089	0	-15.089		
	CH159 5795	-16.022		-16.022		
IEEE 802.11ac VHT20	CH149 5745	-8.777	0	-8.777		
	CH157 5785	-14.554		-14.554		
	CH165 5825	-12.912		-12.912		
IEEE 802.11ac VHT40	CH151 5755	-13.753	0	-13.753		
	CH159 5795	-10.901		-10.901		
IEEE 802.11ac VHT80	CH155 5775	-17.285	0	-17.285		

Note 1: PSD Calculation= PSD(RMS)+ Duty Cycle Factor.

Note 2: PSD (RMS) RBW 510KHz indicates that the measurement result is more stringent than that obtained when using RBW 500KHz. Moreover, the RBW Factor is negative, so there is no need to compensate for the RBW factor.

Note 3: Duty Cycle Factor is derived from the report "Section 3 - DUTY CYCLE"

6.6.Original Test record







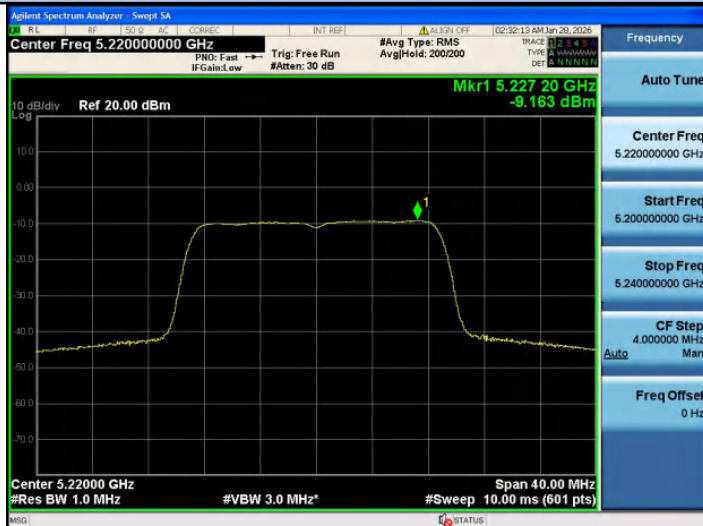
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



IEEE 802.11a HT40_Ant1_CH38 5190MHz



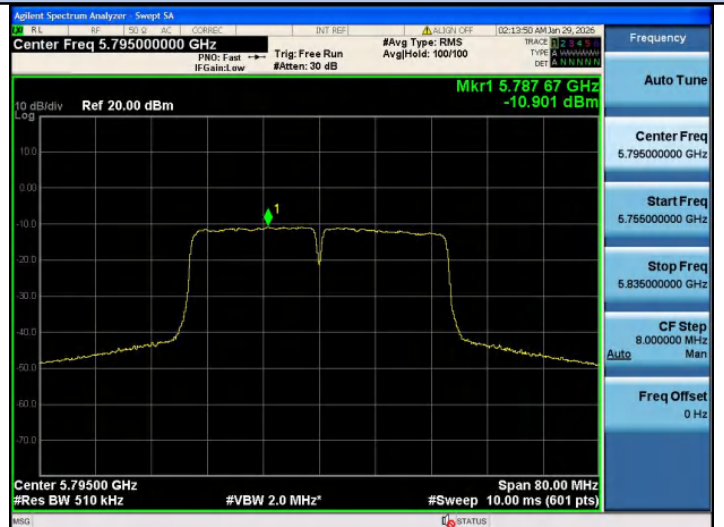
IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



IEEE 802.11c HT40_Ant1_CH46 5230MHz



IEEE 802.11ac VHT40_Ant1_CH159 5795MHz



IEEE 802.11ac VHT80_Ant1_CH38 5210MHz



IEEE 802.11ac VHT80_Ant1_CH155 5775MHz



7. CONDUCTED SPURIOUS EMISSIONS AND BAND EDGE (RESTRICTED-BAND)

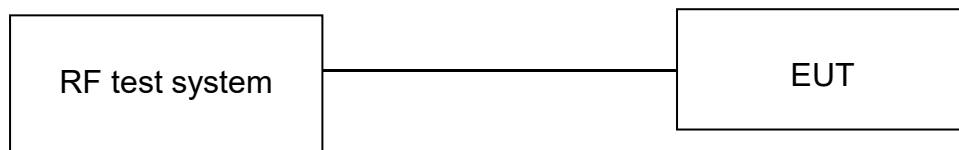
7.1.Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions but side of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.
- (2) For transmitters operating in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.2. Test Setup



7.3. Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Position the EUT without connection to measurement instrument. Turn on the EUT and connect frequency within its operating range, and make sure the instrument is operated in its linear range its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured
- c. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- d. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency
- e. The RF test system conducts the test using the Segmented auto-scan method. It has automatically tested the band edge (Restricted-band) and merged the test results.
- f. Repeat above procedures until all measured frequencies were complete.

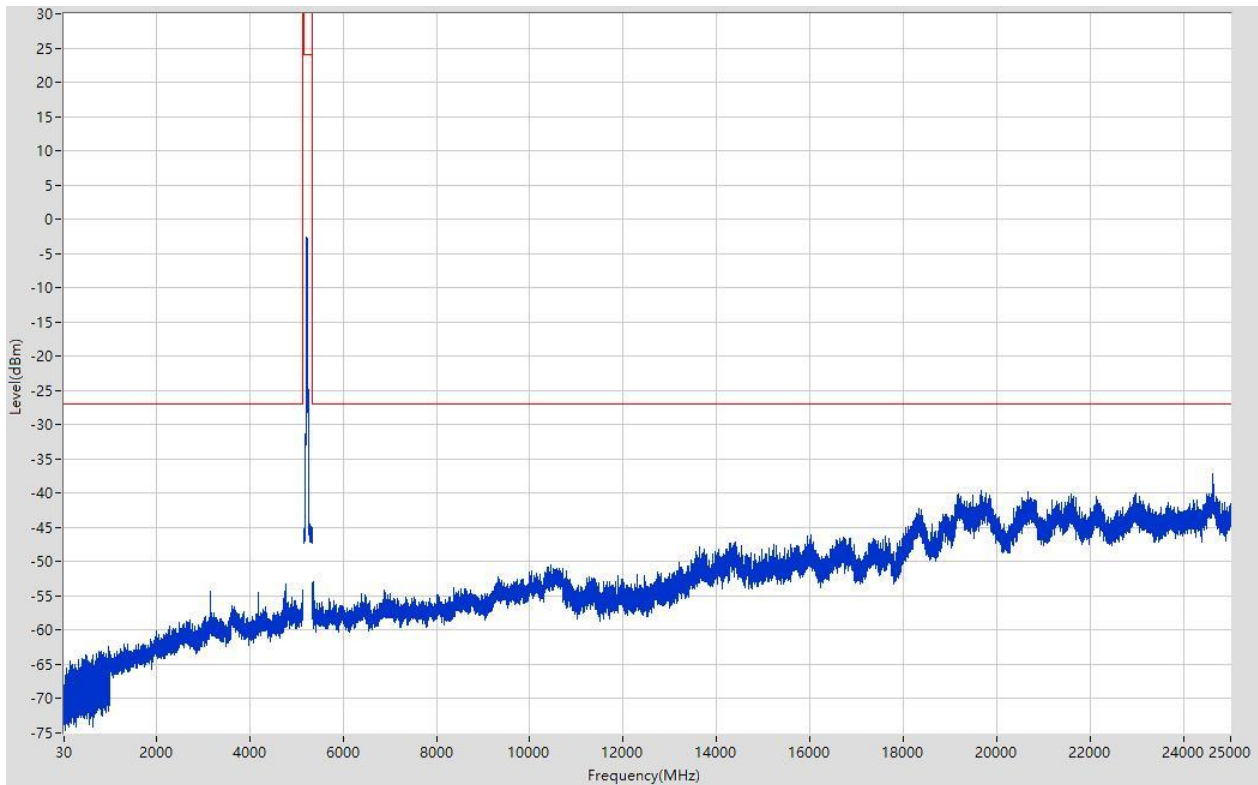
Note:

1. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.
2. The amplitude of 18GHz to 25GHz spurious emission-that-is attenuated by more than 20dB below the-permissible-limit has no need-to-be-reported.
3. For 30-18000MHz spurious, During the test, pre-scan 802.11a/n HT20/n HT40/ac VHT20/ac VHT40/ac VHT80 modulation mode, found IEEE 802.11ac VHT40_Ant1_CH46 5230MHz & IEEE 802.11ac VHT80_Ant1_CH155 5755MHz modulation was worse case mode. The report only reflects the test data of worst mode.

7.4. Test Result

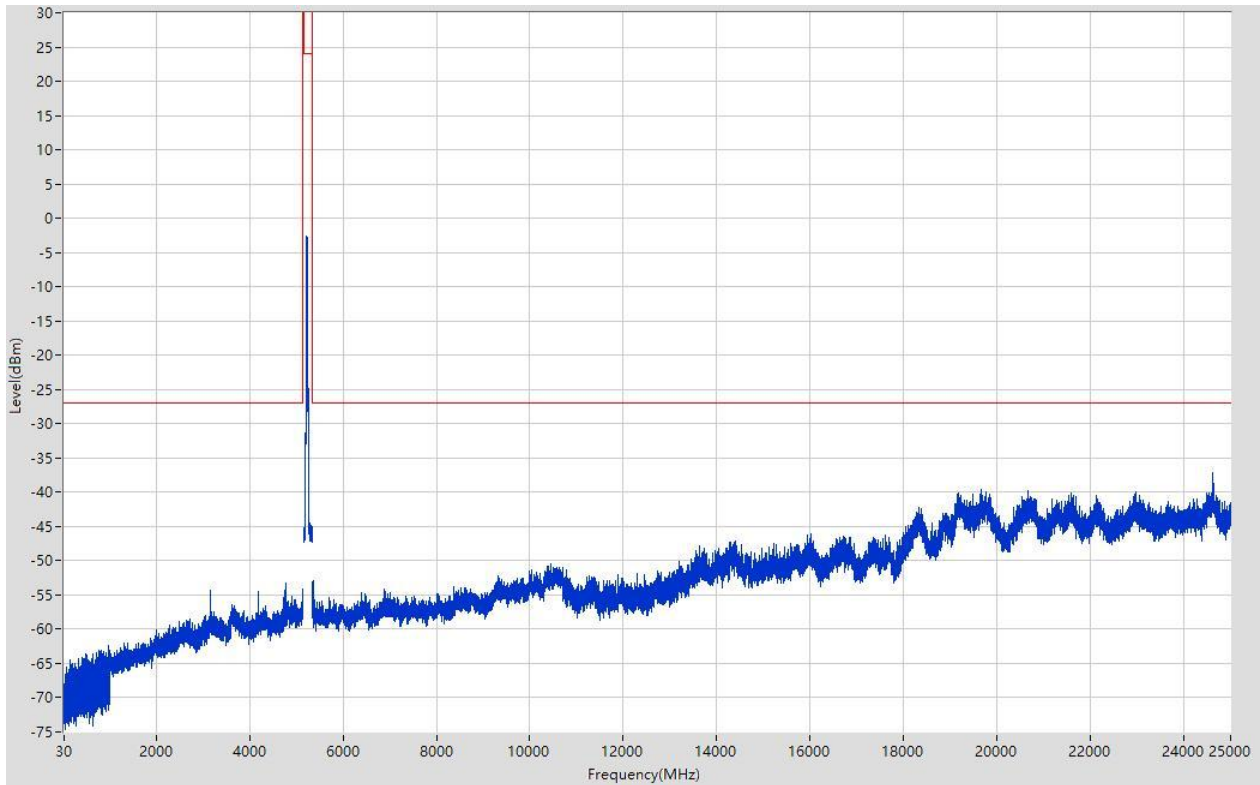
IEEE 802.11ac VHT40_Ant1_CH46 5230MHz - Peak

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Power (nW)	Limit (dBm)	Limit (nW)	Margin (dB)	Verdict
30	1000	0.1	Peak	980.1	-62.32	0.586	-27	1995.262	35.32	Pass
1000	5149.5	1	Peak	4767.454	-53.28	4.698	-27	1995.262	26.28	Pass
5150.5	5349.5	1	Peak	5224.13	-2.63	545230.655	24	251188643.151	26.63	Pass
5350.5	10300	1	Peak	10037.974	-51.35	7.327	-27	1995.262	24.35	Pass
10300	10700	1	Peak	10460	-50.53	8.847	-27	1995.262	23.53	Pass
10700	25000	1	Peak	24621	-37.11	194.336	-27	1995.262	10.11	Pass



IEEE 802.11ac VHT40_Ant1_ CH46 5230MHz - AV

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Power (nW)	Limit (dBm)	Limit (nW)	Margin (dB)	Verdict
30	1000	0.1	RMS	963.3	-69.92	0.102	-41.2	75.858	28.72	Pass
1000	5149.5	1	RMS	4184.384	-59.76	1.057	-41.2	75.858	18.56	Pass
5150.5	5349.5	1	RMS	5236.568	-11.83	65675.576	24	251188643.151	35.83	Pass
5350.5	10300	1	RMS	8367.805	-61.03	0.788	-41.2	75.858	19.83	Pass
10300	10700	1	RMS	10460	-58.82	1.313	-41.2	75.858	17.62	Pass
10700	25000	1	RMS	24631	-48.53	14.038	-41.2	75.858	7.33	Pass



IEEE 802.11ac VHT80_Ant1_CH155 5775MHz- Peak

Start Frequency (MHz)	Stop Frequency (MHz)	RBW (MHz)	Detector	Frequency (MHz)	Power (dBm)	Power (nW)	Limit (dBm)	Limit (nW)	Margin (dB)	Verdict
30	1000	0.1	Peak	785.3	-61.9	0.645	-27	1995.262	34.9	Pass
1000	5649.5	1	Peak	4619.389	-52.42	5.725	-27	1995.262	25.42	Pass
5650.5	5699.5	1	Peak	5651.97	-44.78	33.284	-25.89	2576.321	18.89	Pass
5700.5	5719.5	1	Peak	5715.605	-35.47	283.771	14.45	27874045.203	49.92	Pass
5720.5	5724.5	1	Peak	5720.5	-34.66	341.789	15.6	36307805.477	50.26	Pass
5725.5	5849.5	1	Peak	5758.36	-5.52	280329.813	30	1000000000	35.52	Pass
5850.5	5854.5	1	Peak	5854.38	-43.79	41.781	15.94	39282579.672	59.73	Pass
5855.5	5874.5	1	Peak	5872.03	-45.01	31.577	10.73	11824968.704	55.73	Pass
5875.5	5925	1	Peak	5924.505	-46.31	23.369	-26.63	2172.701	19.68	Pass
5925	25000	1	Peak	24627	-38.51	140.898	-27	1995.262	11.51	Pass

