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FCC PART 15 SUBPART E FCC PART §15.407 TEST REPORT

FCC ID:RIJAF13**Report No:** CTSL2511230005ER04**Product Name:** Tablet PC**Main Test Model:** AF13/ES510**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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be reproduced without permission from CTSL. All Test Data Presented in this report is only
applicable to presented Test sample.

CTSL Testing (Dongguan) Co., Ltd.

Main company address: Hexing Building, Houjie Avenue, Houjie Road Houjie Town,
Guangdong Province Dongguan City, People's Republic of China

Test Report**FCC ID:RIJAF13**

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	AF13/ES510				
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	2025.12.12	Test period	2025.12.12-2025.12.27	Issue Date	2025.12.29
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	:	AF13/ES510
Series Models	:	--
Power supply	:	Charging Input: DC 5-9V, 2A, 18W Max by Type-C
Battery	:	DC 3.8V by Internal battery Model:29120200, Capacity: 10000mAh
Software Version	:	AF13_T1_251223
Hardware Version	:	BND-N868-V5.0
Equipment Under Test		
Testing sample ID	:	CTSL2511230005-S1 (Engineer sample) CTSL2511230005-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	:	6.31dBm (6.0±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&GPS&BT &5Gwifi	FPC	IPEX connector	-0.18
	5.8 G band				2.48

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-Registration No.: 0037614732;
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

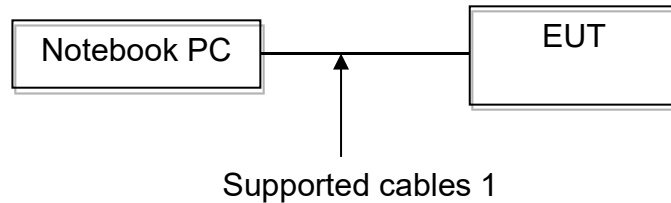
Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (Below 30MHz)	$\pm 1.62\text{ dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 25GHz)	$\pm 4.96\text{dB}$
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.

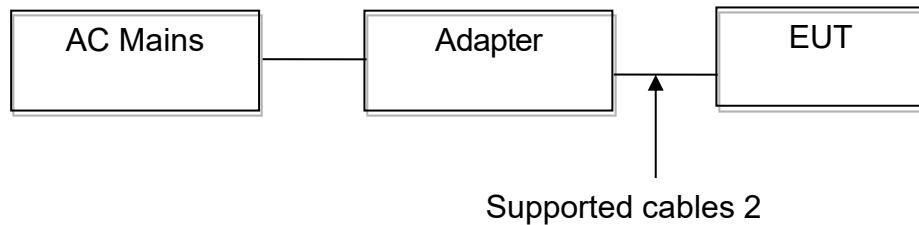
2.5. Block Diagram

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	/
	802.11n HT20	MCS0		36	/
	802.11n HT40	MCS0		38	/
	802.11ac VHT20	MCS0		36	/
	802.11ac VHT40	MCS0		38	/
	802.11ac VHT80	MCS0		42	/

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	5	5	5
IEEE 802.11n HT20 Setting	5	5	5
IEEE 802.11ac VHT20 Setting	5	5	5
Test Frequency (MHz)	5190	/	5230
IEEE 802.11n HT40 Setting	5	/	5
IEEE 802.11ac VHT40 Setting	5	/	5
Test Frequency (MHz)	5210		
IEEE 802.11ac VHT80 Setting	4		
Test Frequency (MHz)	5745	5785	5825
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)	5755	/	5795
IEEE 802.11n HT40 Setting	4	/	4
IEEE 802.11ac VHT40 Setting	4	/	4
Test Frequency (MHz)	5775		
IEEE 802.11ac VHT80 Setting	3		

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	May 16,25	May 15,26
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	N/A	N/A	N/A

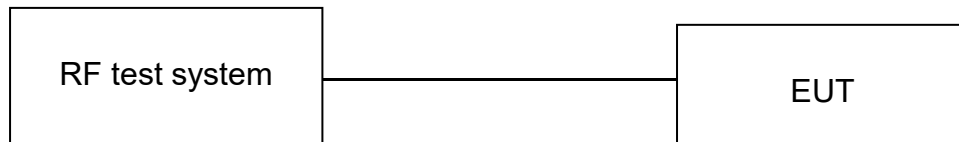
For Connect EUT Antenna Terminal Test (RF Test system)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum analyzer	Keysight	N9020A	AT050	GUANGZHOU NEM	Jun 12,25	Jun 11,26
Analog signal source	Keysight	N5173B	AT051	GUANGZHOU NEM	Jun 12,25	Jun 11,26
WIDEBAND 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 (MHz)	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Duty Cycle Factor (dB)	1/T (Hz)
802.11a	CH36	5180	0.00138	0.00018	0.00156	0.8846	0.53	725
802.11n HT20	CH36	5180	0.00129	0.00018	0.00147	0.8776	0.57	775
802.11n HT40	CH38	5190	0.000636	0.000184	0.00082	0.7759	1.10	1572
IEEE 802.11ac VHT20	CH36	5180	0.001293	0.000194	0.001487	0.8696	0.61	773
IEEE 802.11ac VHT40	CH38	5190	0.000643	0.00017	0.000813	0.7913	1.02	1555
IEEE 802.11ac VHT80	CH42	5210	0.00032	0.000213	0.000533	0.6000	2.22	3125

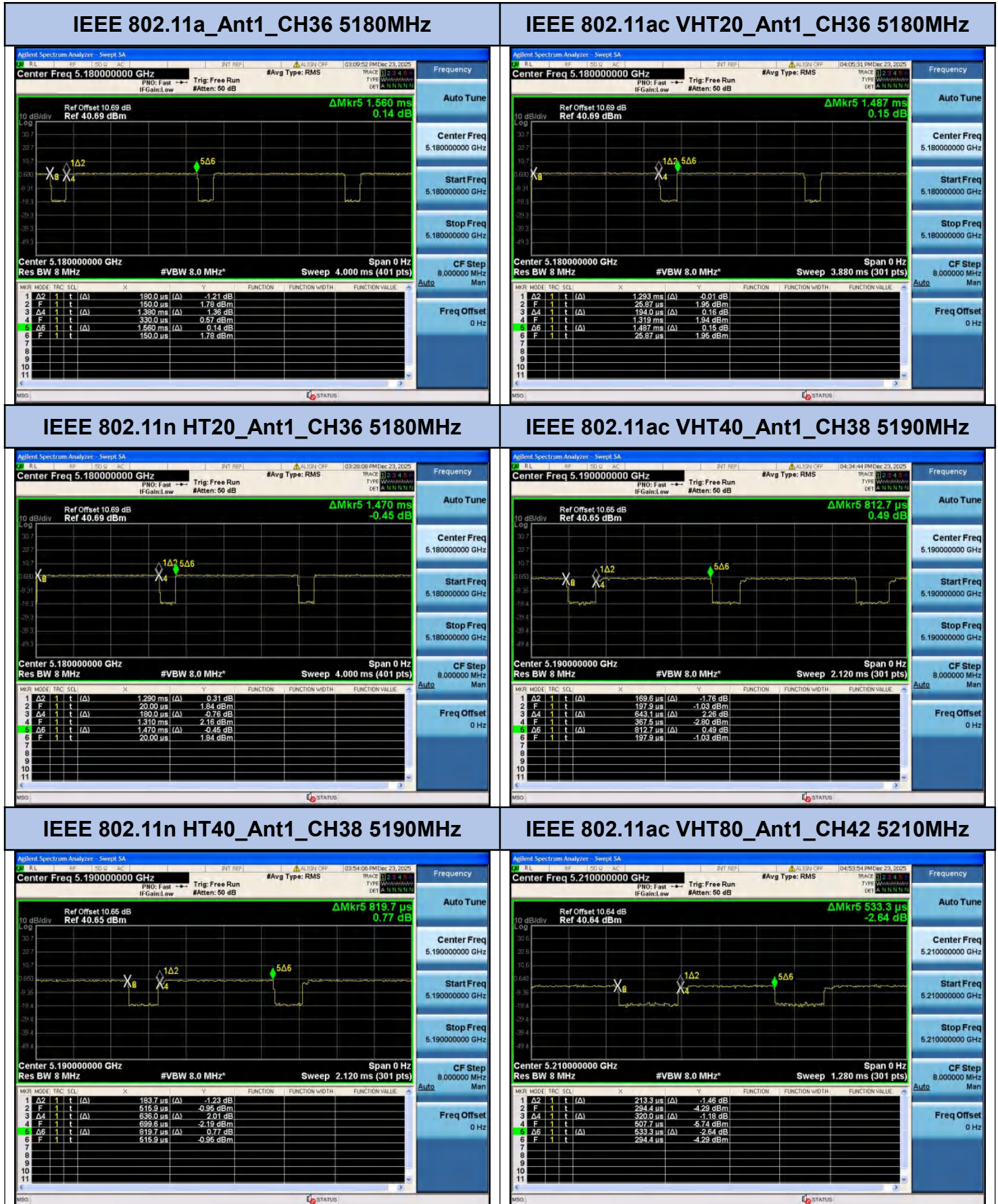
U-NII-3								
Mode	Channel	Center Frequency (MHz)	Tx On (s)	Tx Off (s)	Period (s)	Duty Cycle	Duty Cycle Factor (dB)	1/T (Hz)
802.11a	CH149	5745	0.00138	0.000186	0.001565	0.8814	0.55	725
802.11n HT20	CH149	5745	0.001286	0.000242	0.001528	0.8417	0.75	778
802.11n HT40	CH151	5755	0.001286	0.000178	0.001464	0.8783	0.56	778
IEEE 802.11ac VHT20	CH149	5745	0.001309	0.000175	0.001484	0.8824	0.54	764
IEEE 802.11ac VHT40	CH151	5755	0.001309	0.000175	0.001484	0.8824	0.54	764
IEEE 802.11ac VHT80	CH155	5775	0.00032	0.000175	0.000495	0.6466	1.89	3125

Note:

1. Duty Cycle=On Time(Tx On)/Total Time(Period).
2. Duty Factor= $10 \times \log(1/\text{Duty Cycle})$.
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 considered to be transmitting continuously, the conducted average output power and average power spectral density do not need to add duty factor.
5. The on-time time is transmission duration (T).
6. The VBW Setting is used 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

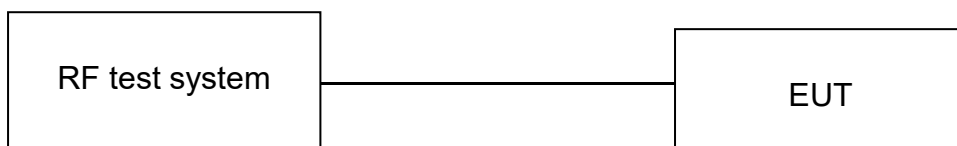


4. 26dB & 6dB EMISSION BANDWIDTH & 99% OCCUPIED BANDWIDTH

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:

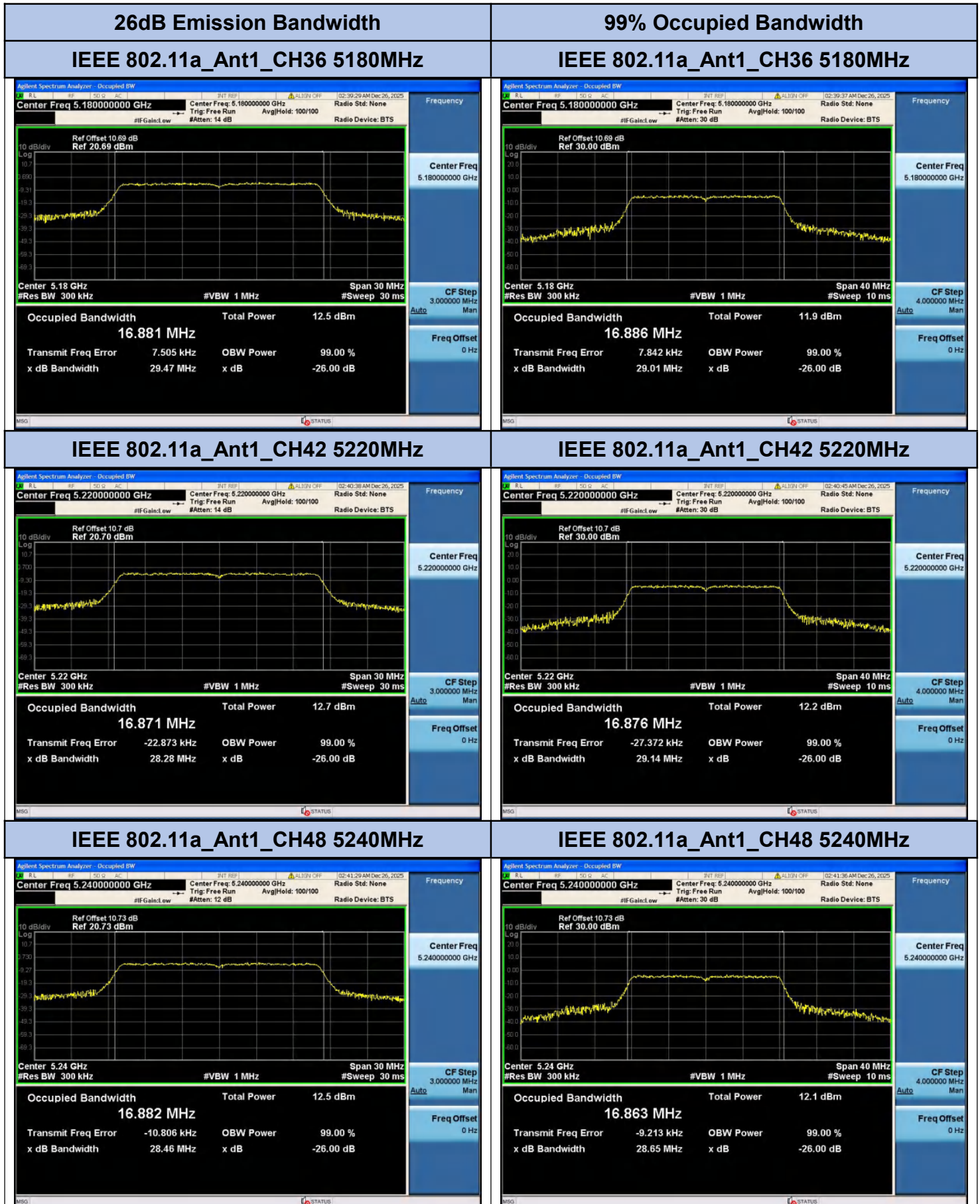
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat 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	29.469	16.886	/	PASS
		CH42 5220	28.279	16.876		
		CH48 5240	28.463	16.863		
	IEEE 802.11n HT20	CH36 5180	29.205	17.920	/	PASS
		CH42 5220	29.485	17.850		
		CH48 5240	29.062	17.891		
	IEEE 802.11n HT40	CH38 5190	50.633	36.752	/	PASS
		CH46 5230	51.608	36.805		
	IEEE 802.11ac VHT20	CH36 5180	29.712	17.751	/	PASS
		CH42 5220	29.418	17.753		
		CH48 5240	28.302	17.786		
	IEEE 802.11ac VHT40	CH38 5190	49.157	36.495	/	PASS
		CH46 5230	49.978	36.560		
	IEEE 802.11ac VHT80	CH42 5210	93.753	75.530	/	PASS

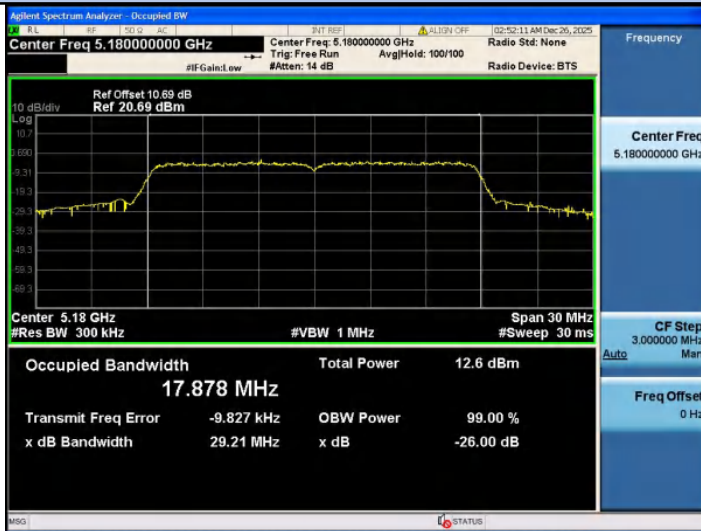
Band	Test Mode	Channel& Frequency	6dB Emission Bandwidth	99% Occupied Bandwidth	Limit	Result
		MHz	MHz	MHz	KHz	
U-NII-3	IEEE 802.11a	CH149 5745	16.487	16.887	500	PASS
		CH157 5785	16.485	16.871		
		CH165 5825	16.503	16.880		
	IEEE 802.11n HT20	CH149 5745	17.572	17.878	500	PASS
		CH157 5785	17.592	17.903		
		CH165 5825	17.592	17.879		
	IEEE 802.11n HT40	CH151 5755	36.331	36.919	500	PASS
		CH159 5795	36.434	37.063		
	IEEE 802.11ac VHT20	CH149 5745	17.463	17.780	500	PASS
		CH157 5785	17.456	17.749		
		CH165 5825	17.600	17.765		
	IEEE 802.11ac VHT40	CH151 5755	36.455	36.683	500	PASS
		CH159 5795	36.362	36.684		
	IEEE 802.11ac VHT80	CH155 5775	76.436	75.758	500	PASS

4.6.Original Test record



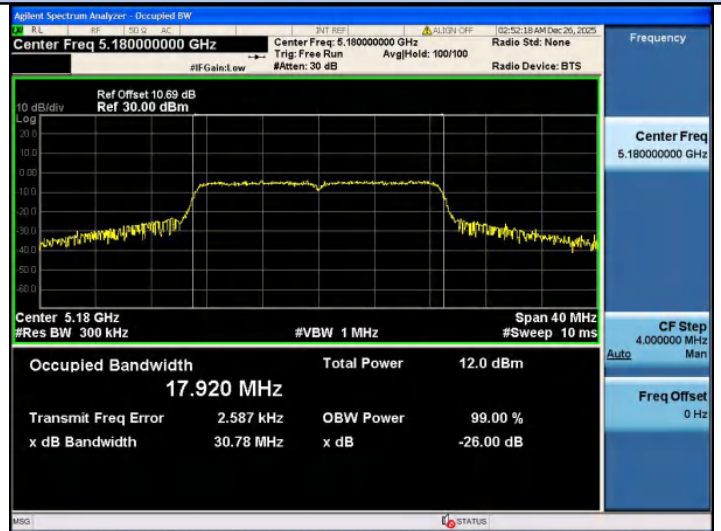
26dB Emission Bandwidth

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 802.11n HT40_Ant1_CH38 5190MHz

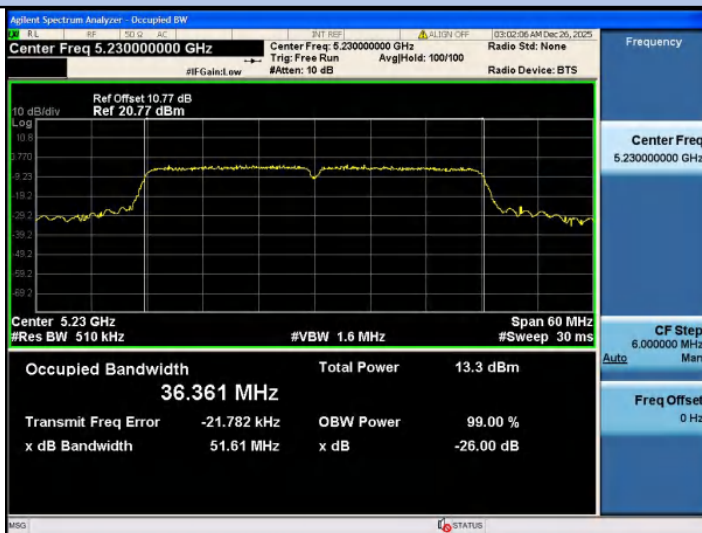


99% Occupied Bandwidth

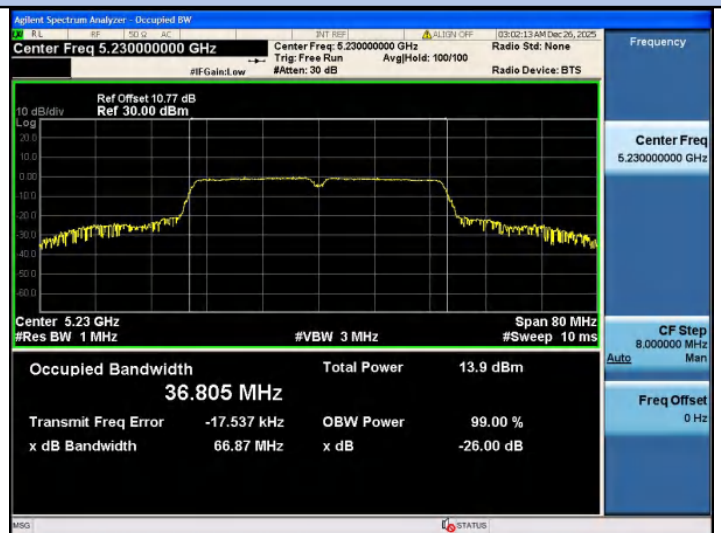
IEEE 802.11n HT40_Ant1_CH38 5190MHz



IEEE 802.11n HT40_Ant1_CH46 5230MHz

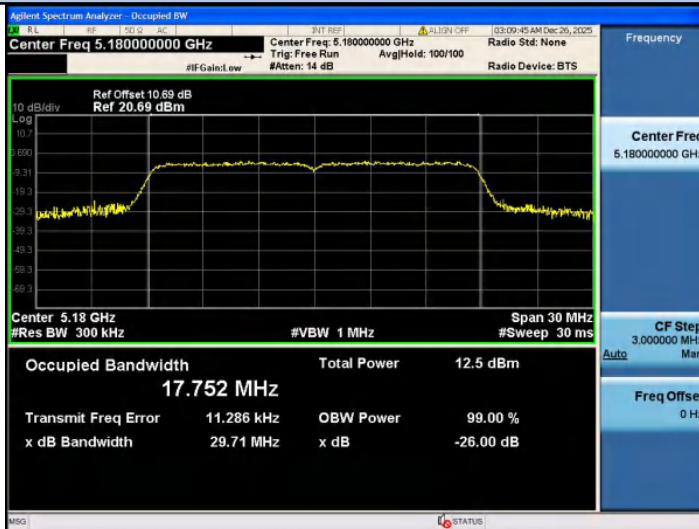


IEEE 802.11n HT40_Ant1_CH46 5230MHz



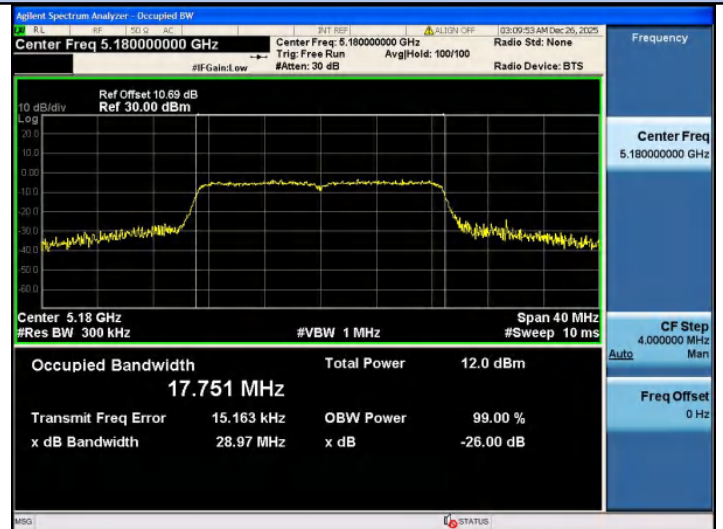
26dB Emission Bandwidth

IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



99% Occupied Bandwidth

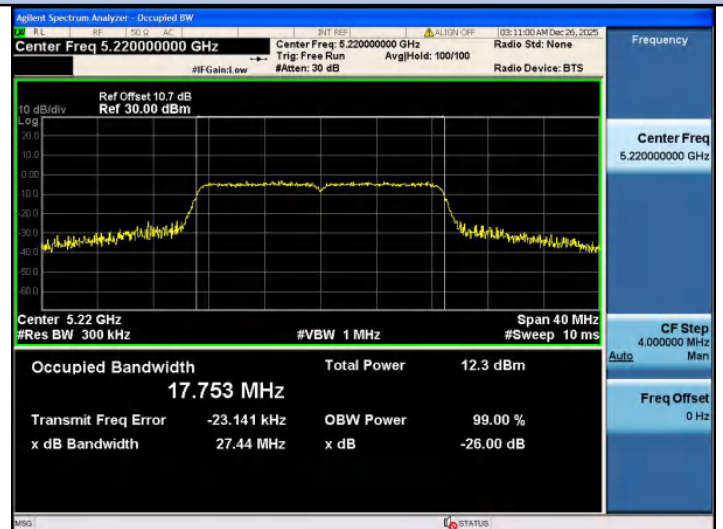
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



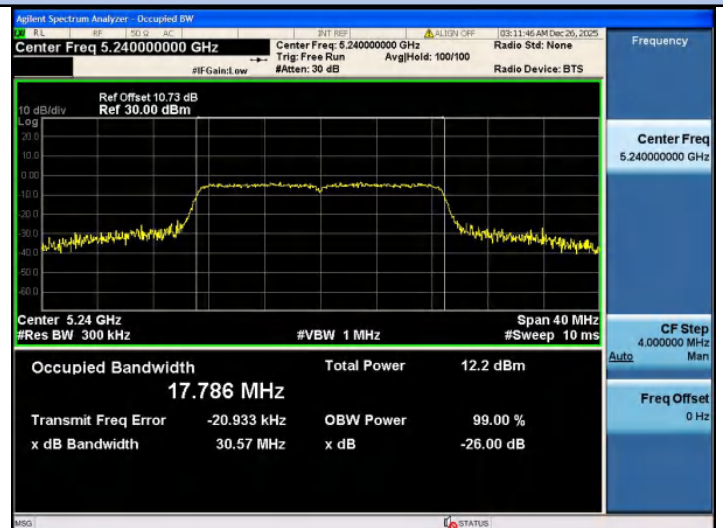
IEEE 802.11ac VHT20_Ant1_CH42 5220MHz

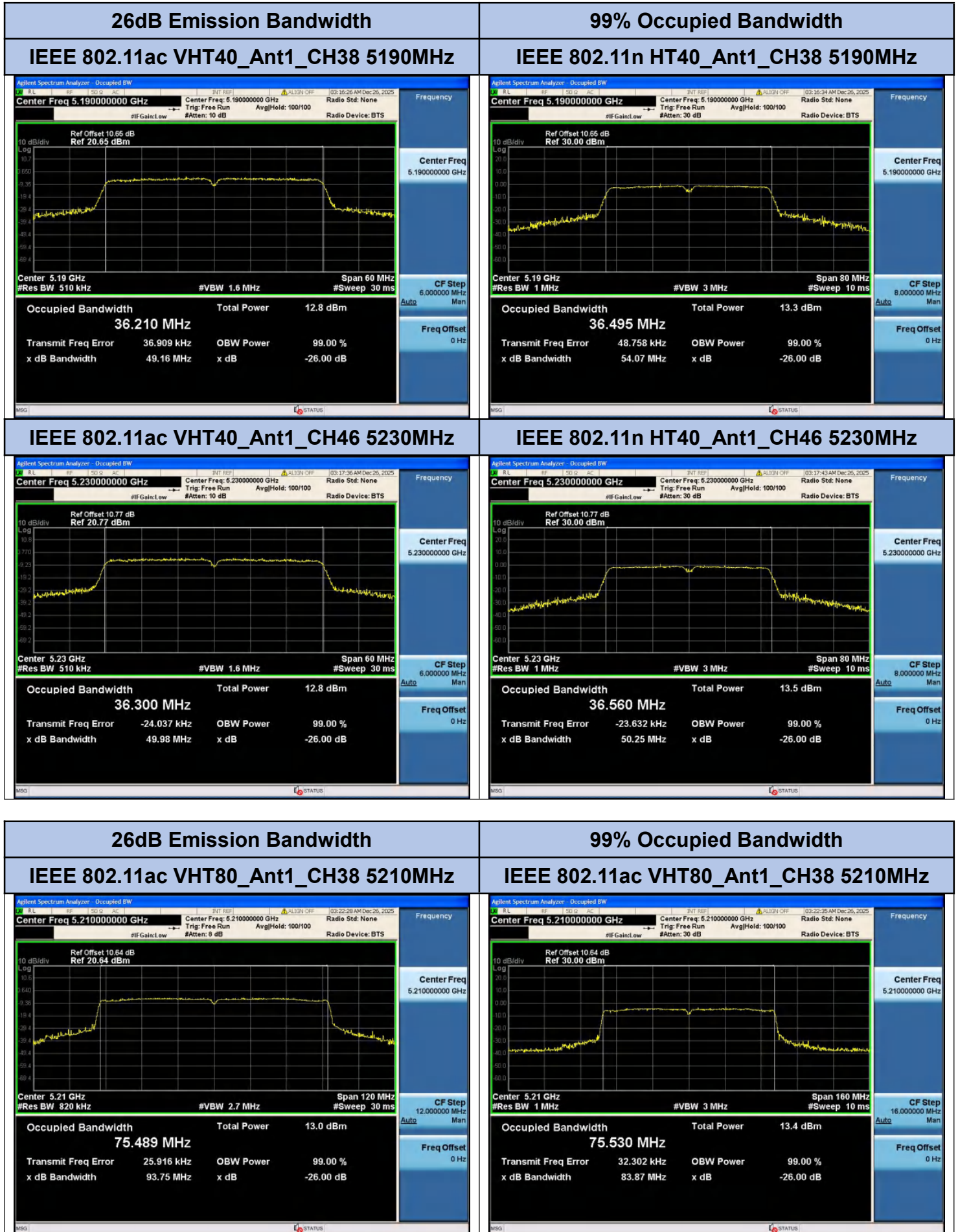


IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



IEEE 802.11ac VHT20_Ant1_CH48 5240MHz





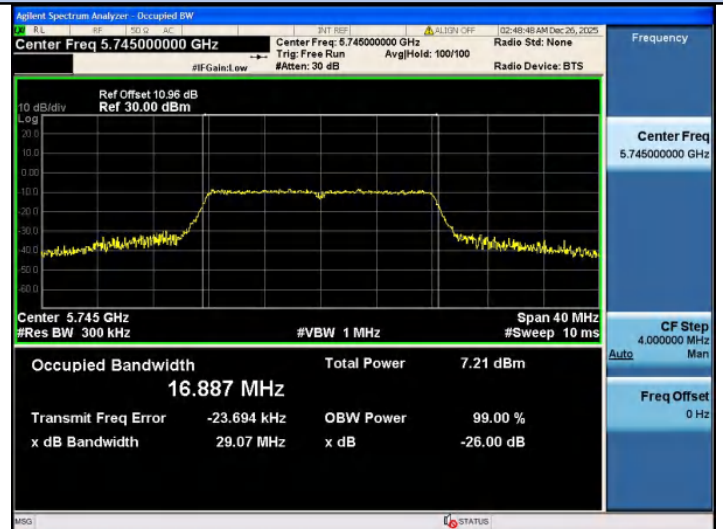
6dB Emission Bandwidth

IEEE 802.11a_Ant1_CH149 5745MHz



99% Occupied Bandwidth

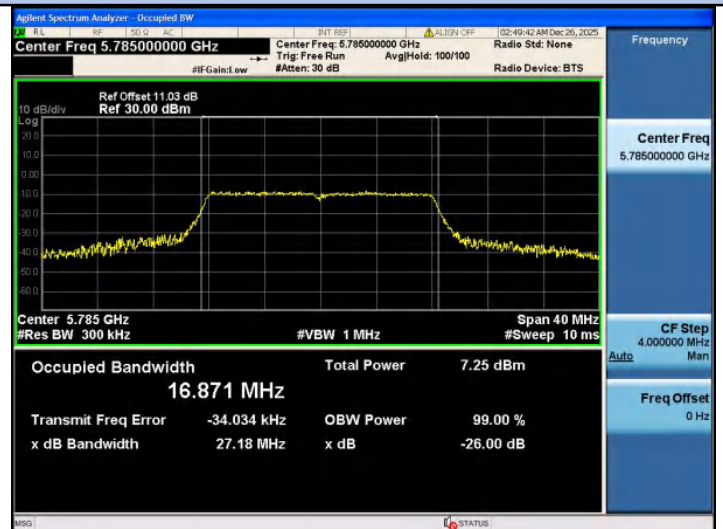
IEEE 802.11a_Ant1_CH149 5745MHz



IEEE 802.11a_Ant1_CH157 5785MHz



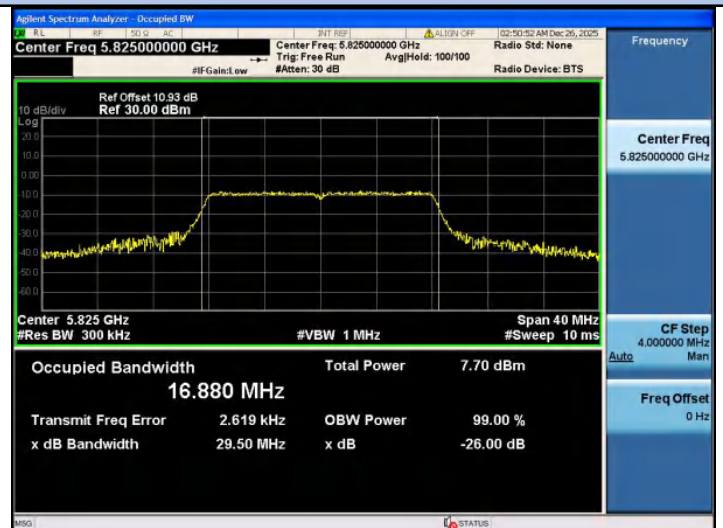
IEEE 802.11a_Ant1_CH157 5785MHz



IEEE 802.11a_Ant1_CH165 5825MHz



IEEE 802.11a_Ant1_CH165 5825MHz



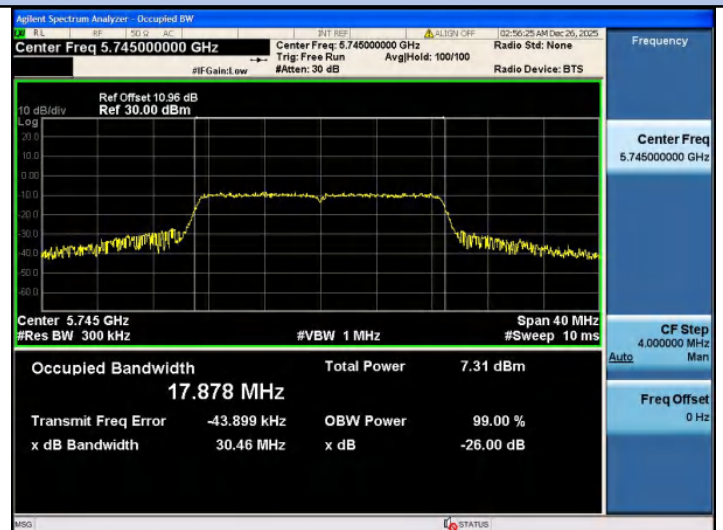
6dB Emission Bandwidth

IEEE 802.11n HT20_Ant1_CH149 5745MHz



99% Occupied Bandwidth

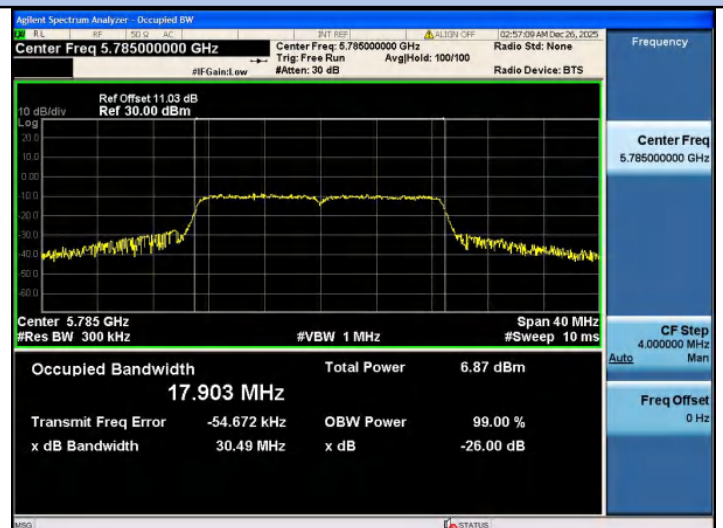
IEEE 802.11n HT20_Ant1_CH149 5745MHz



IEEE 802.11n HT20_Ant1_CH157 5785MHz



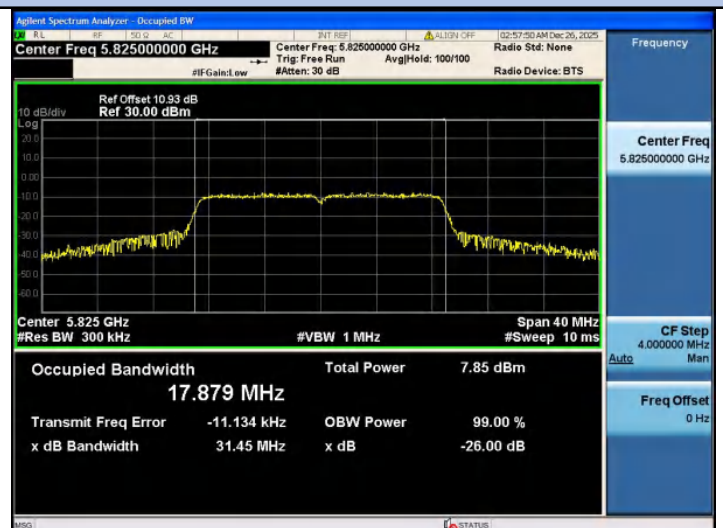
IEEE 802.11n HT20_Ant1_CH157 5785MHz

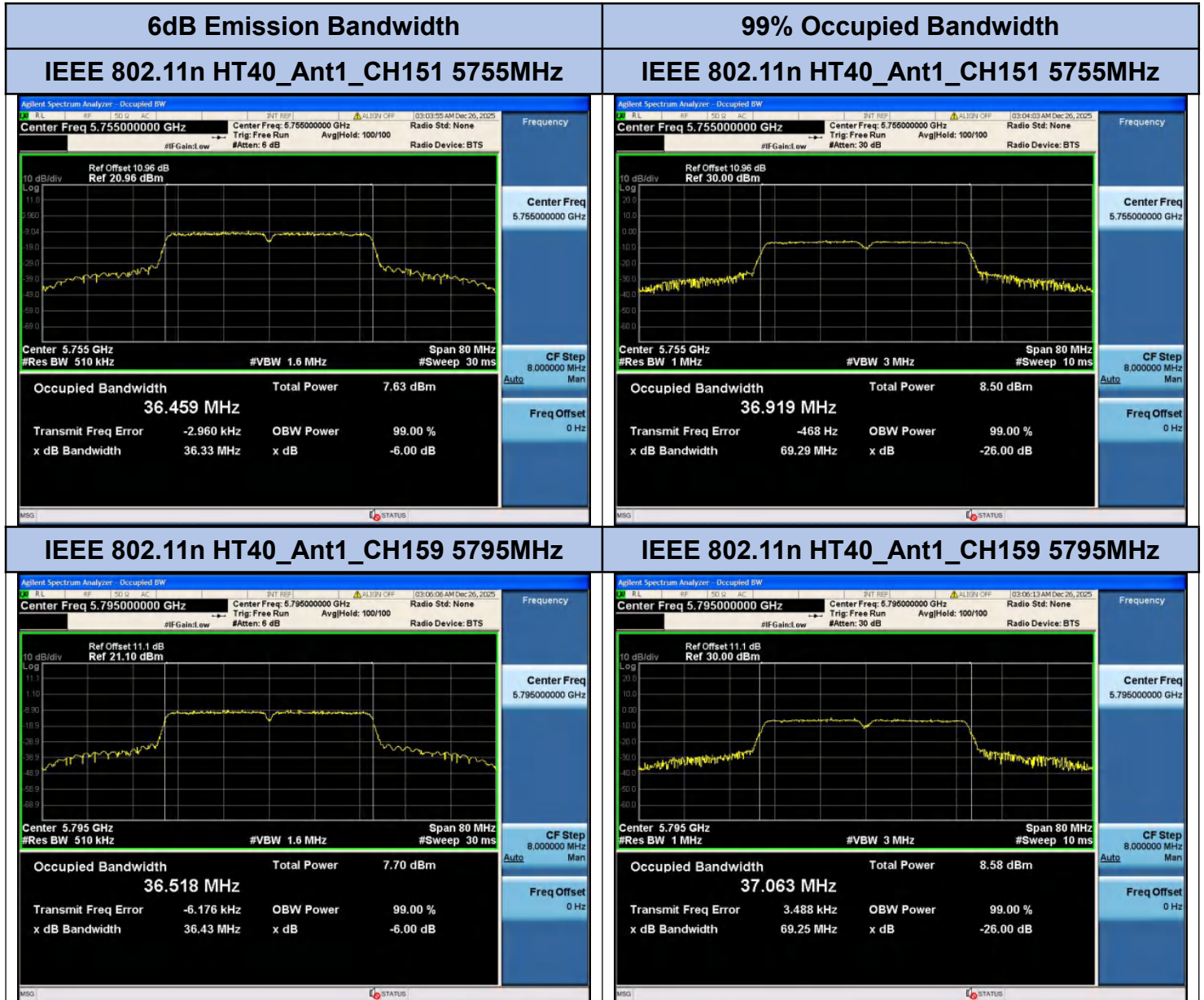


IEEE 802.11n HT20_Ant1_CH165 5825MHz



IEEE 802.11n HT20_Ant1_CH165 5825MHz





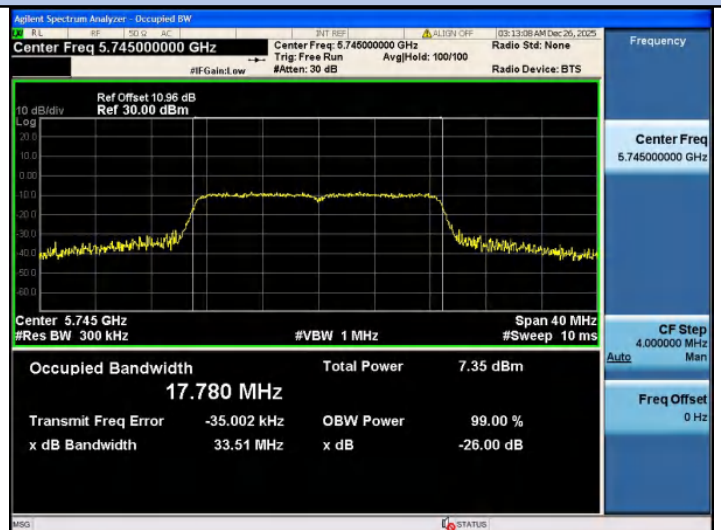
6dB Emission Bandwidth

IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



99% Occupied Bandwidth

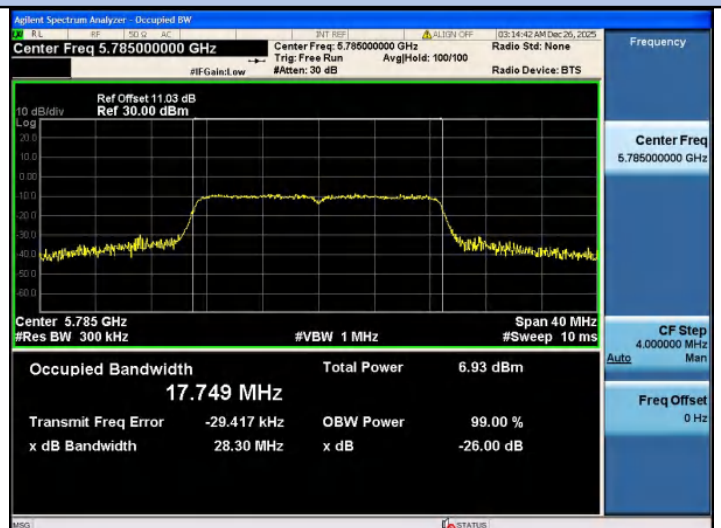
IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



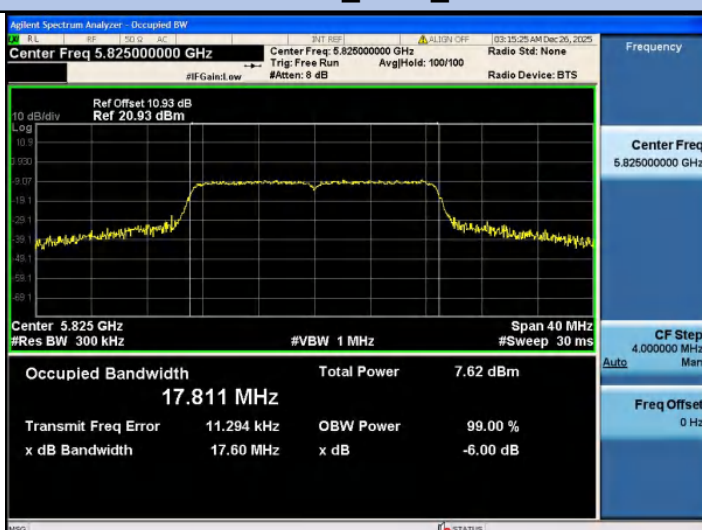
IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



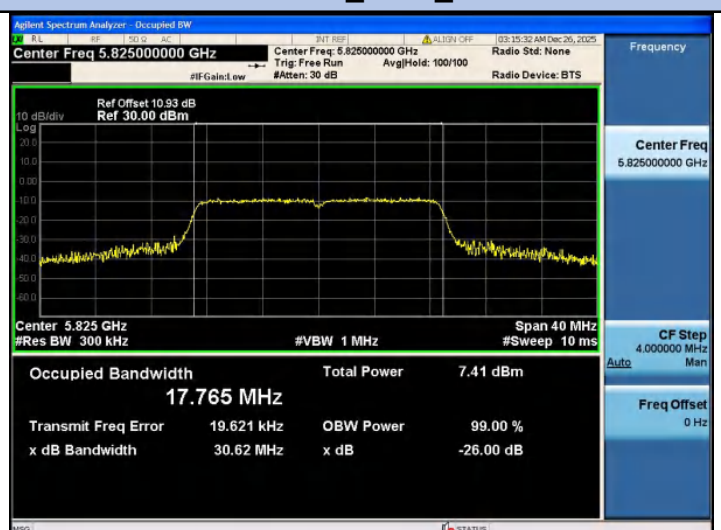
IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



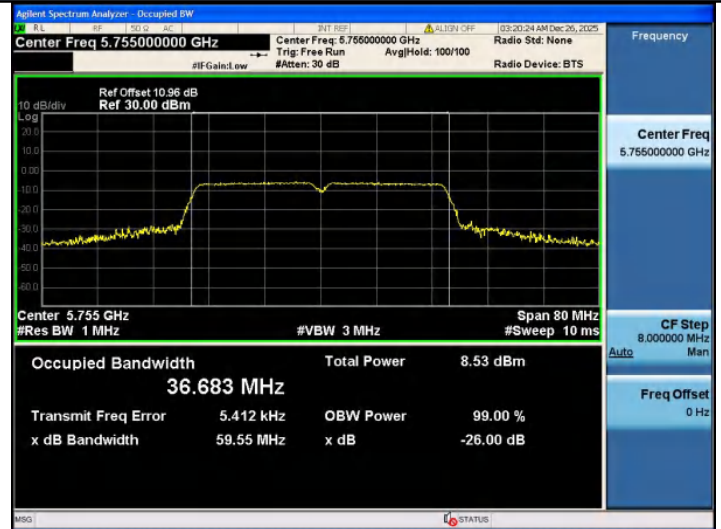
6dB Emission Bandwidth

IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



99% Occupied Bandwidth

IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



IEEE 802.11ac VHT40_Ant1_CH159 5795MHz



IEEE 802.11ac VHT40_Ant1_CH159 5795MHz



6dB Emission Bandwidth

IEEE 802.11ac VHT80_Ant1_CH155 5775MHz



99% Occupied Bandwidth

IEEE 802.11ac VHT80_Ant1_CH155 5775MHz

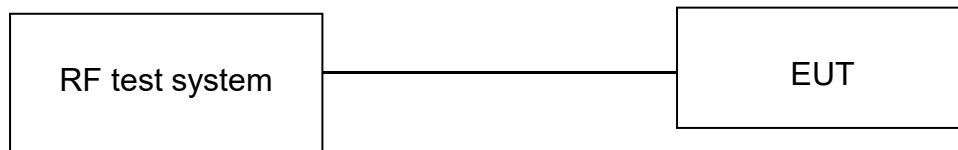


5. MAXIMUM CONDUCTED OUTPUT POWER

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.

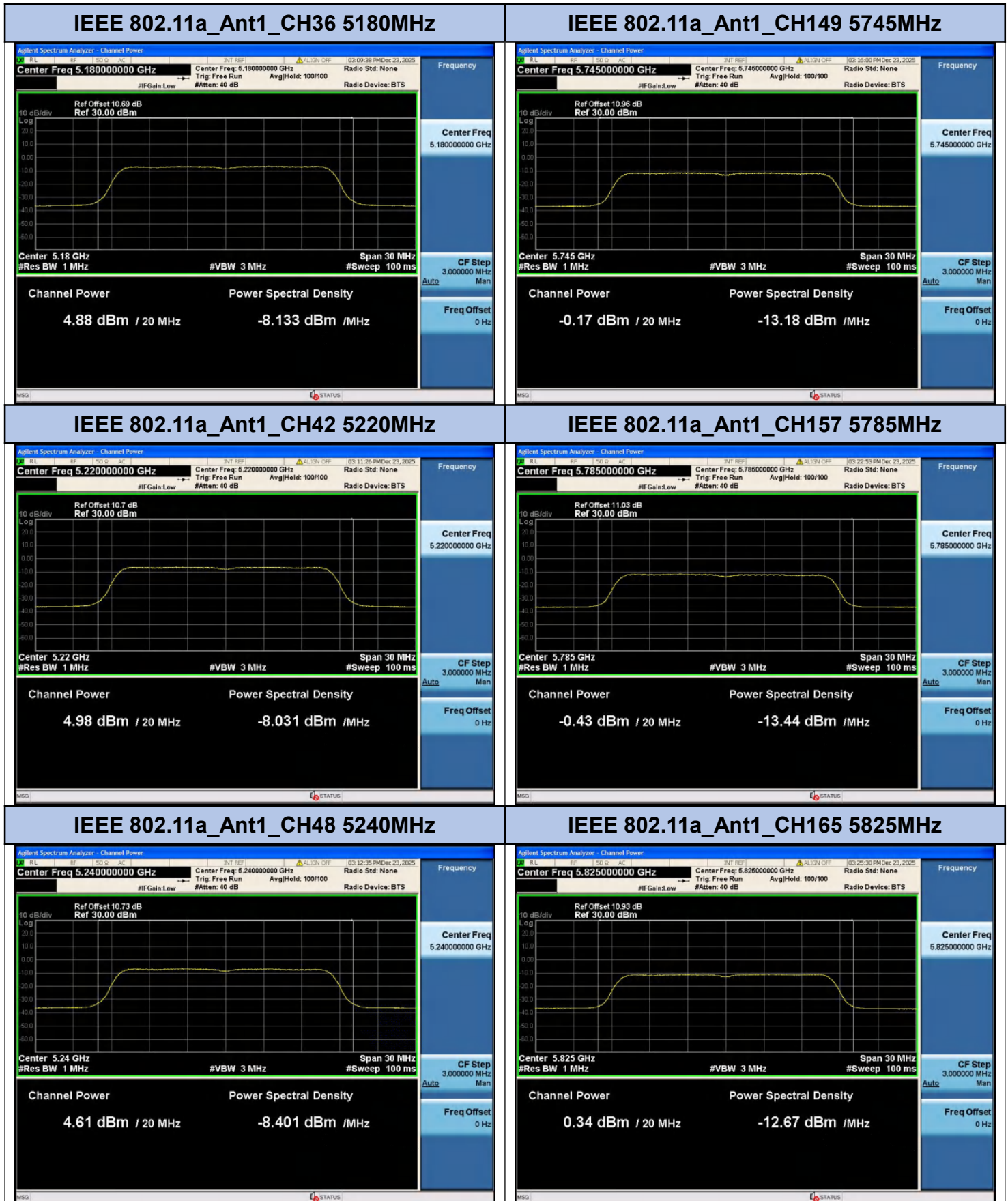
5.5. Test Result

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	4.88	0.53	5.41	≤23.98	PASS
		CH42 5220	4.98		5.51		
		CH48 5240	4.61		5.14		
	IEEE 802.11n HT20	CH36 5180	5.17	0.57	5.74		
		CH42 5220	5.37		5.94		
		CH48 5240	5.11		5.68		
	IEEE 802.11n HT40	CH38 5190	5.19	1.10	6.29		
		CH46 5230	5.21		6.31		
	IEEE 802.11ac VHT20	CH36 5180	5.22	0.61	5.83		
		CH42 5220	5.43		6.04		
		CH48 5240	5.16		5.77		
	IEEE 802.11ac VHT40	CH38 5190	5.01	1.02	6.03		
		CH46 5230	5.26		6.28		
	IEEE 802.11ac VHT80	CH42 5210	3.96	2.22	6.18		
U-NII-3	IEEE 802.11a	CH149 5745	-0.17	0.55	0.38	≤30.00	PASS
		CH157 5785	-0.43		0.12		
		CH165 5825	0.34		0.89		
	IEEE 802.11n HT20	CH149 5745	0.25	0.75	1.00		
		CH157 5785	-0.03		0.72		
		CH165 5825	0.32		1.07		
	IEEE 802.11n HT40	CH151 5755	-0.42	0.56	0.14		
		CH159 5795	-0.61		-0.05		
	IEEE 802.11ac VHT20	CH149 5745	0.26	0.54	0.80		
		CH157 5785	-0.31		0.23		
		CH165 5825	0.38		0.92		
	IEEE 802.11ac VHT40	CH151 5755	-0.37	0.54	0.17		
		CH159 5795	-0.59		-0.05		
	IEEE 802.11ac VHT80	CH155 5775	-1.3	1.89	0.59		

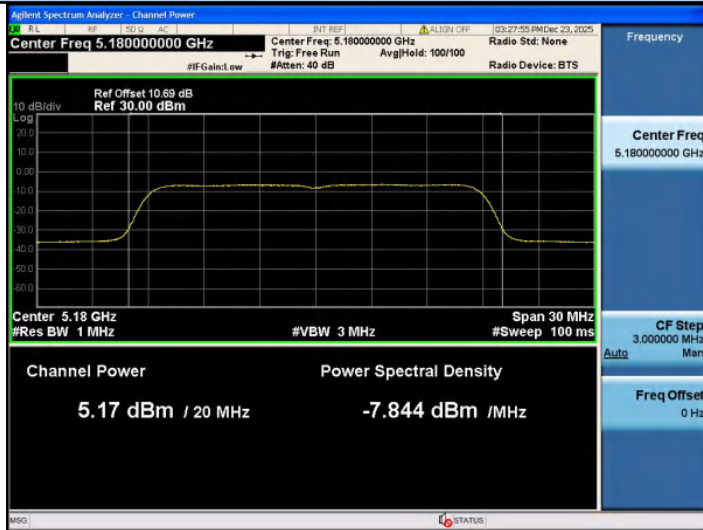
Note 1: If the test results under the Peak detector meet the limit requirements, then there is no need to consider the coefficient obtained by multiplying by the Duty cycle.

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

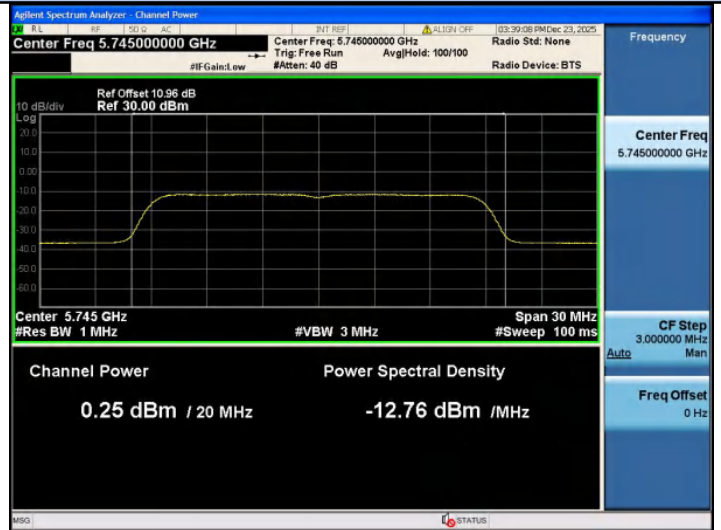
5.6.Original Test record



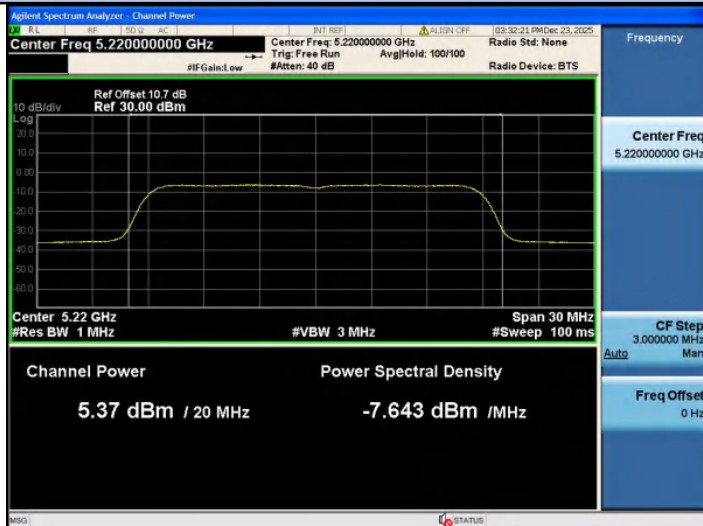
IEEE 802.11n HT20_Ant1_CH36 5180MHz



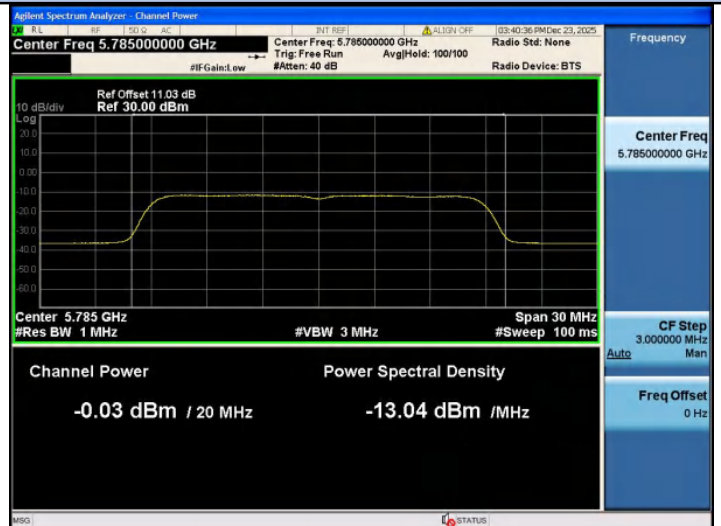
IEEE 802.11n HT20_Ant1_CH149 5745MHz



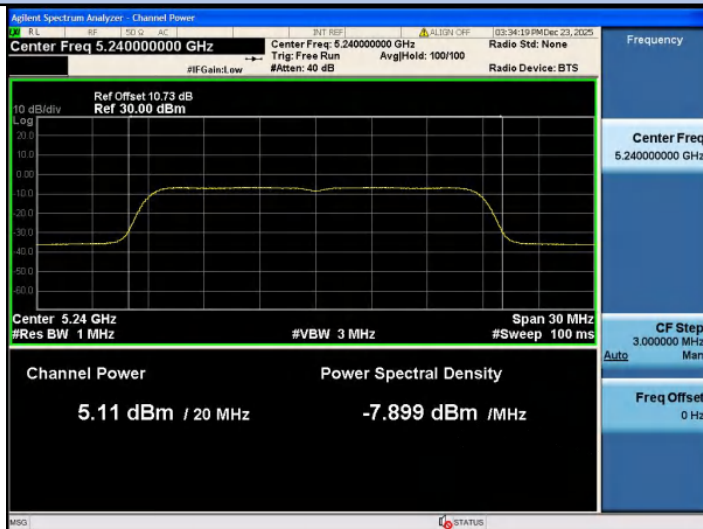
IEEE 802.11n HT20_Ant1_CH42 5220MHz



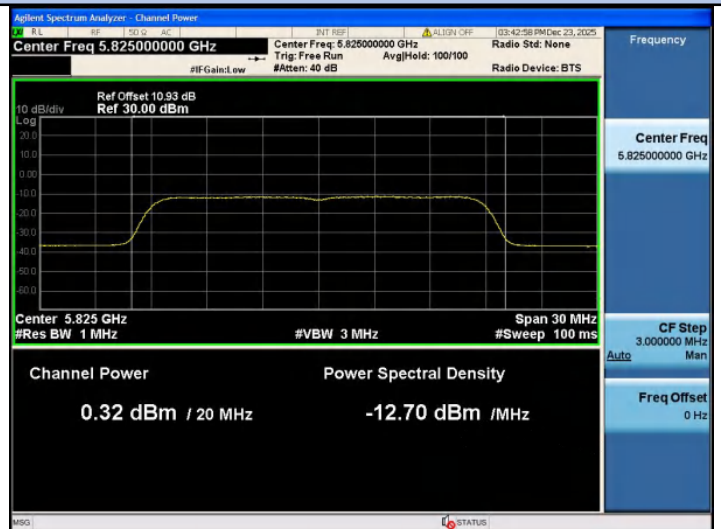
IEEE 802.11n HT20_Ant1_CH157 5785MHz

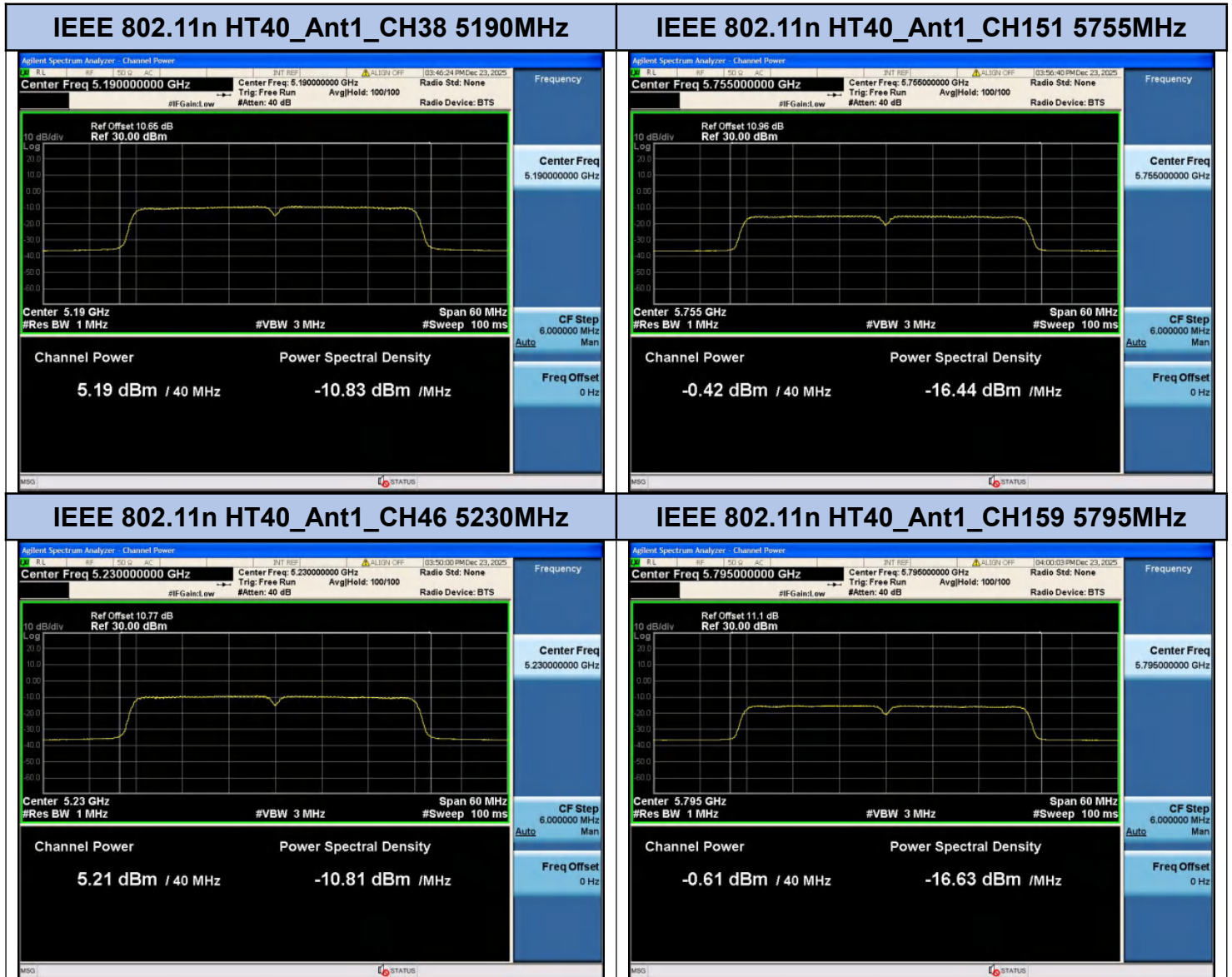


IEEE 802.11n HT20_Ant1_CH48 5240MHz

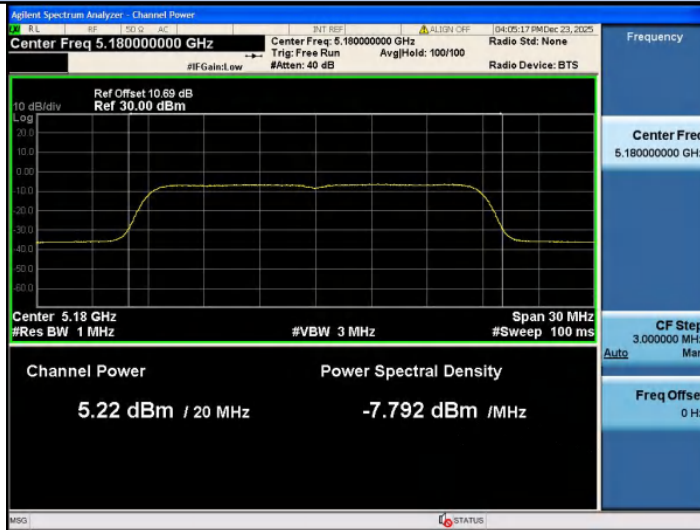


IEEE 802.11n HT20_Ant1_CH165 5825MHz





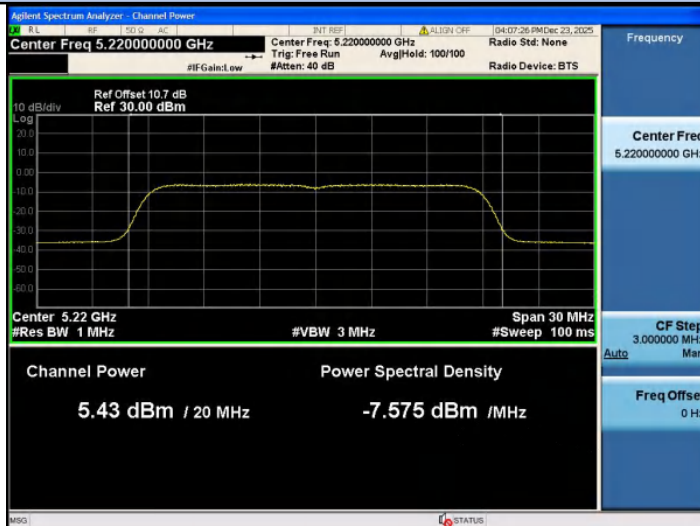
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



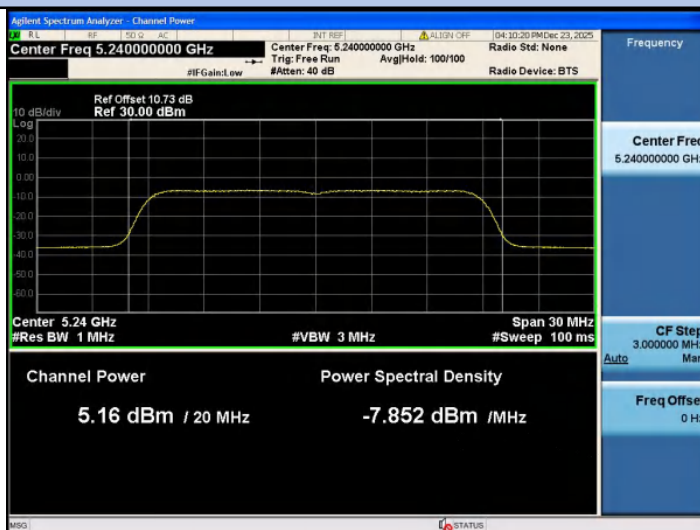
IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



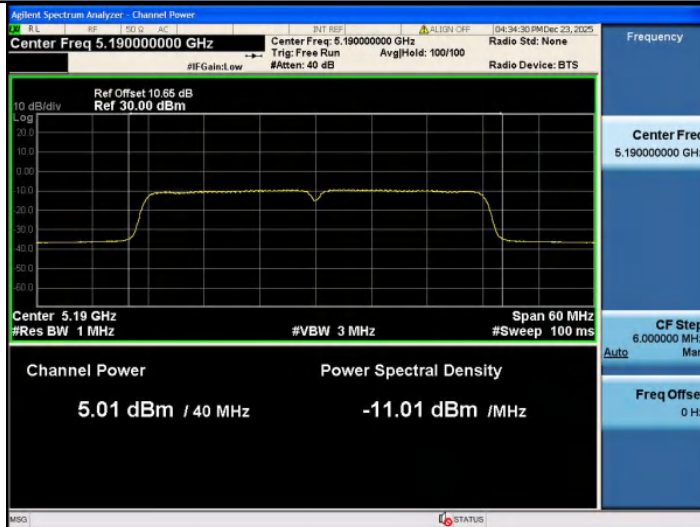
IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



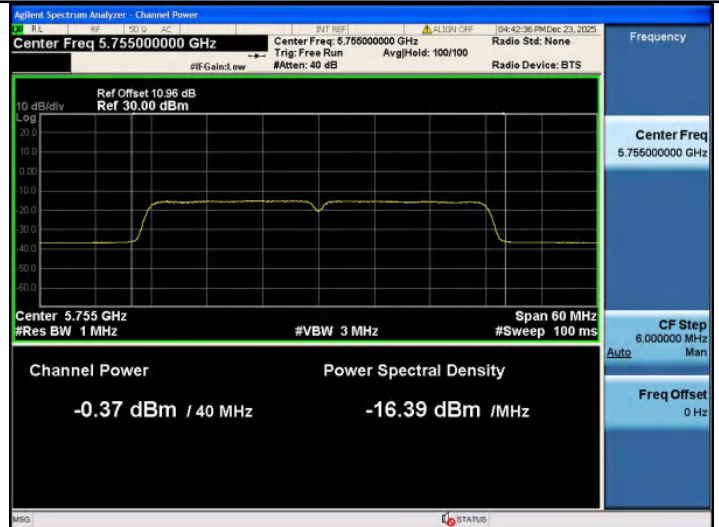
IEEE 802.11ac VHT20_Ant1_CH165 5825MHz



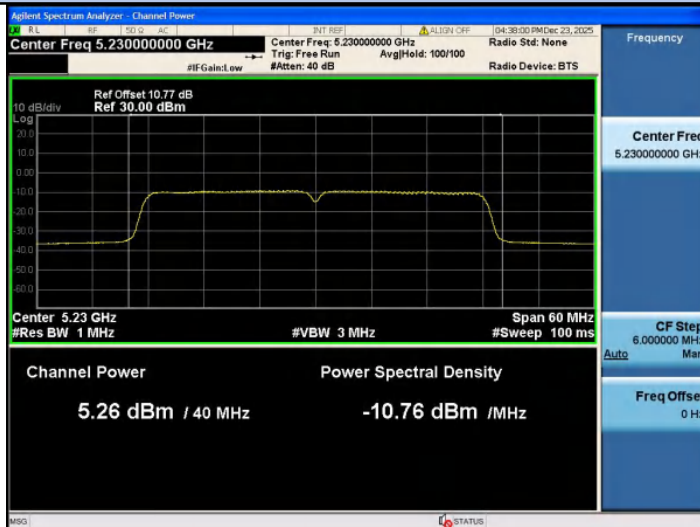
IEEE 802.11a HT40_Ant1_CH38 5190MHz



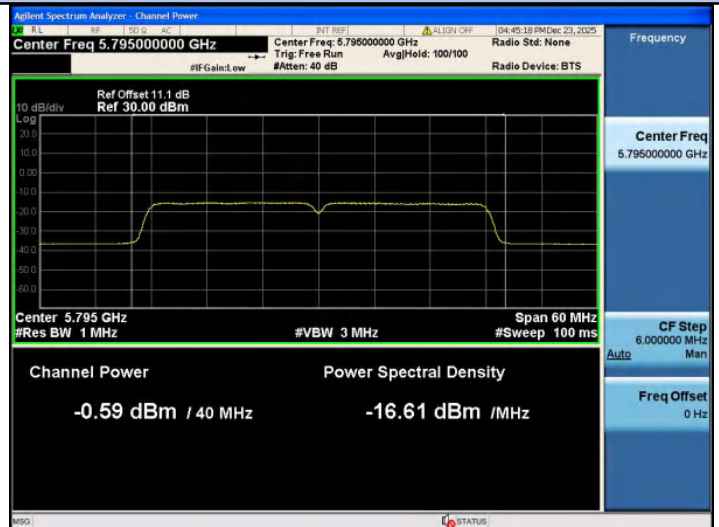
IEEE 802.11ac VHT40_Ant1_CH151 5755MHz



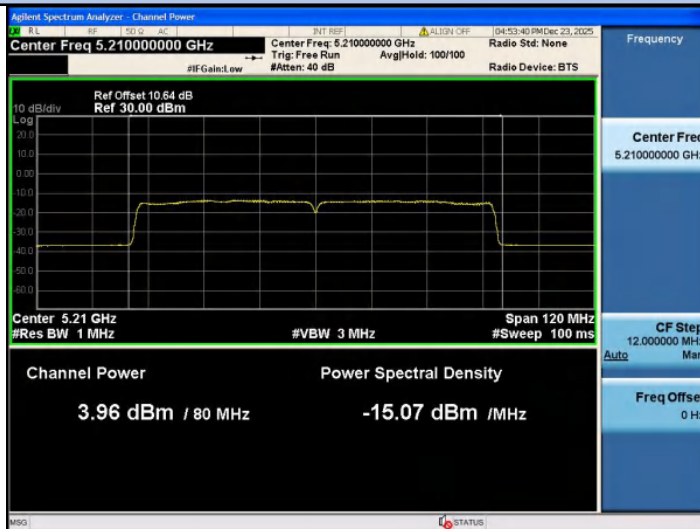
IEEE 802.11c HT40_Ant1_CH46 5230MHz



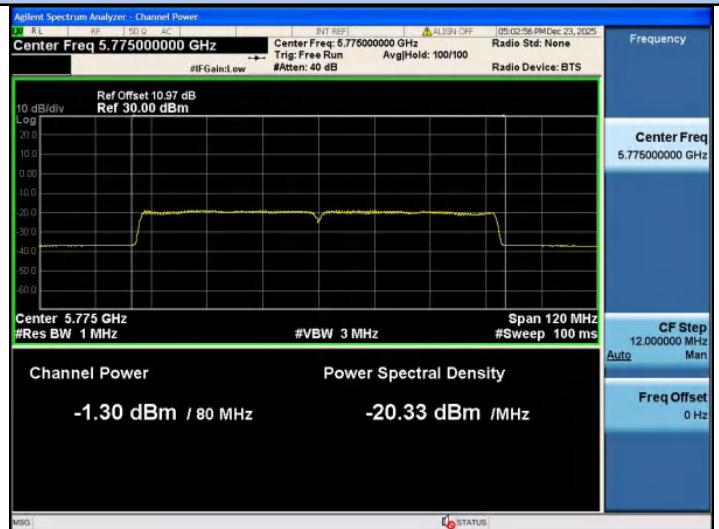
IEEE 802.11ac VHT40_Ant1_CH159 5795MHz



IEEE 802.11ac VHT80_Ant1_CH38 5210MHz



IEEE 802.11ac VHT80_Ant1_CH155 5775MHz

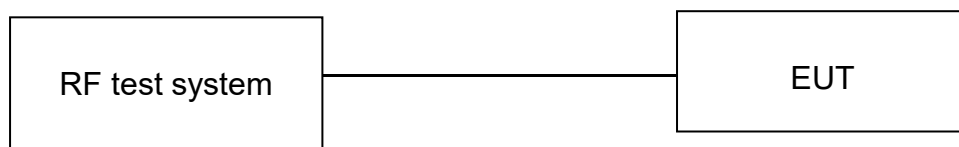


6. POWER SPECTRAL DENSITY

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	AllDevice	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

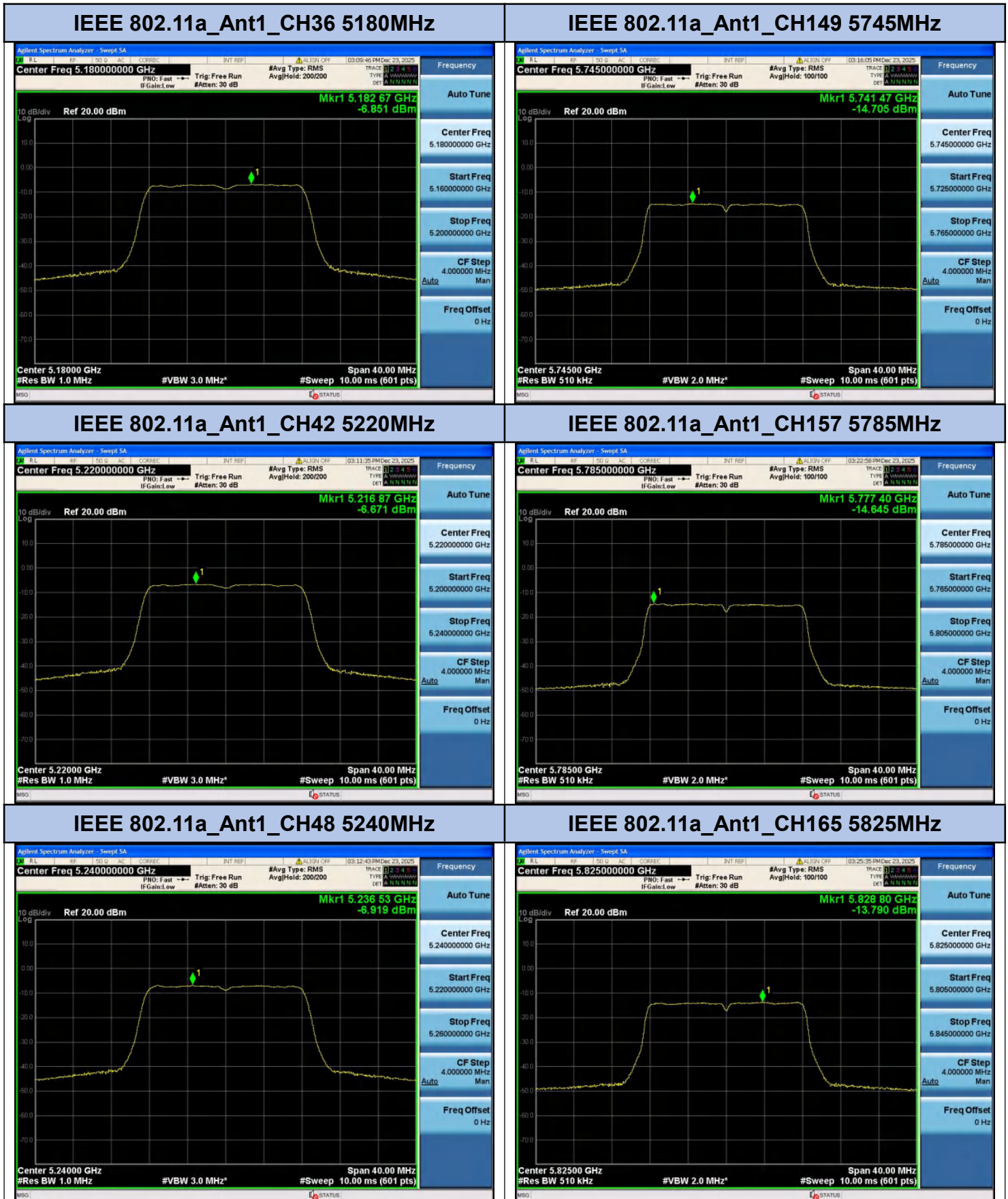
U-NII-1						
Test Mode	Channel& Frequency	PSD (RMS)	Duty Cycle Factor	PSD Calculation	Limit	Result
	MHz	dBm/MHz	dB	dBm/MHz	dBm/MHz	
IEEE 802.11a	CH36 5180	-6.851	0.53	-6.318	≤11	PASS
	CH42 5220	-6.671		-6.138		
	CH48 5240	-6.919		-6.386		
IEEE 802.11n HT20	CH36 5180	-6.708	0.57	-6.141		
	CH42 5220	-6.426		-5.859		
	CH48 5240	-6.769		-6.202		
IEEE 802.11n HT40	CH38 5190	-9.537	1.10	-8.435		
	CH46 5230	-9.588		-8.486		
IEEE 802.11ac VHT20	CH36 5180	-6.746	0.61	-6.139		
	CH42 5220	-6.483		-5.876		
	CH48 5240	-6.652		-6.045		
IEEE 802.11ac VHT40	CH38 5190	-9.452	1.02	-8.435		
	CH46 5230	-9.579		-8.562		
IEEE 802.11ac VHT80	CH42 5210	-14.017	2.22	-11.799		
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	-14.705	0.55	-14.157	≤30	PASS
	CH157 5785	-14.645		-14.097		
	CH165 5825	-13.790		-13.242		
IEEE 802.11n HT20	CH149 5745	-14.290	0.75	-13.542		
	CH157 5785	-14.361		-13.613		
	CH165 5825	-13.841		-13.093		
IEEE 802.11n HT40	CH151 5755	-17.850	0.56	-17.286		
	CH159 5795	-17.930		-17.366		
IEEE 802.11ac VHT20	CH149 5745	-14.347	0.54	-13.804		
	CH157 5785	-14.306		-13.763		
	CH165 5825	-13.888		-13.345		
IEEE 802.11ac VHT40	CH151 5755	-17.958	0.54	-17.415		
	CH159 5795	-17.869		-17.326		
IEEE 802.11ac VHT80	CH155 5775	-21.622	1.89	-19.728		

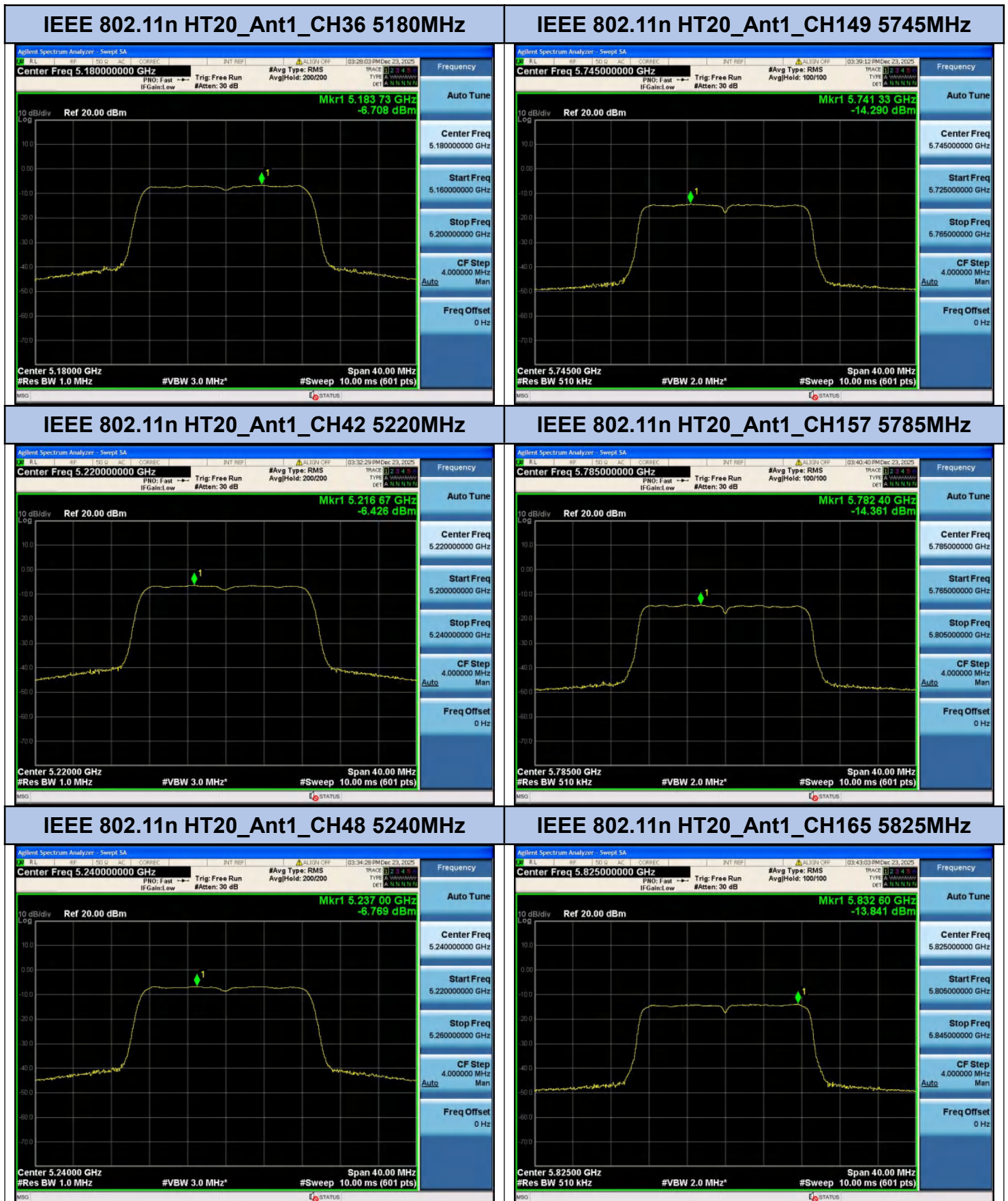
Note 1: PSD Calculation= PSD(RMS)+ Duty Cycle Factor.

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"

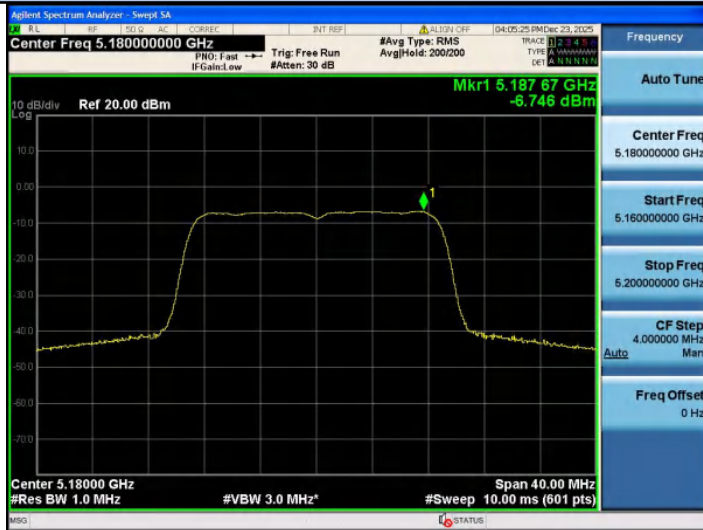
6.6.Original Test record







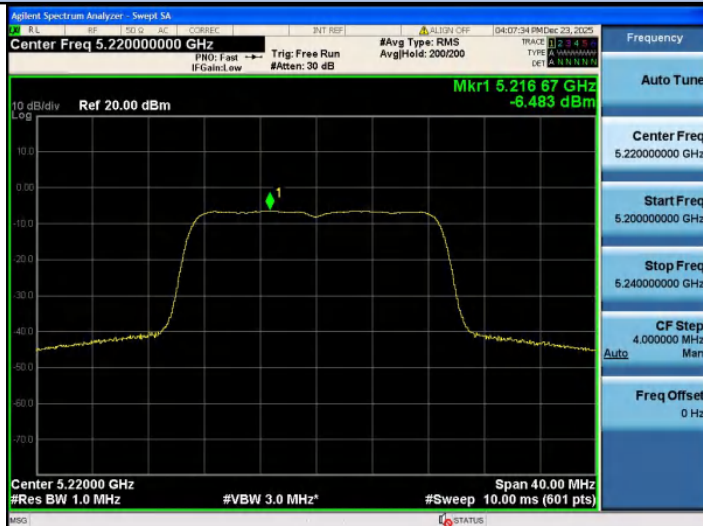
IEEE 802.11ac VHT20_Ant1_CH36 5180MHz



IEEE 802.11ac VHT20_Ant1_CH149 5745MHz



IEEE 802.11ac VHT20_Ant1_CH42 5220MHz



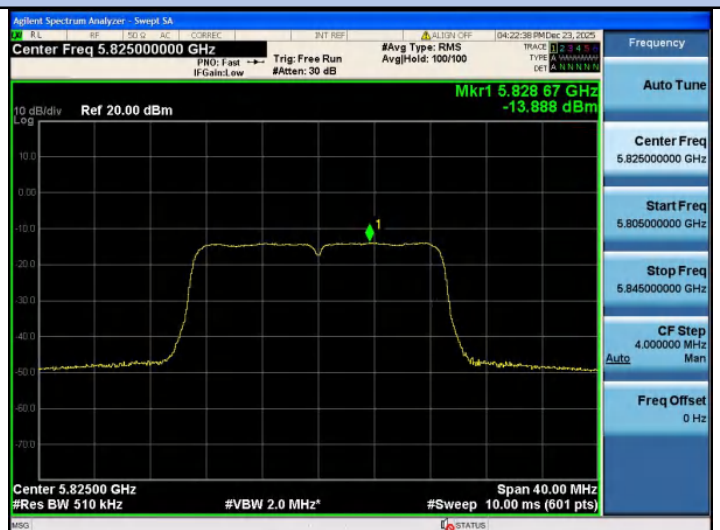
IEEE 802.11ac VHT20_Ant1_CH157 5785MHz



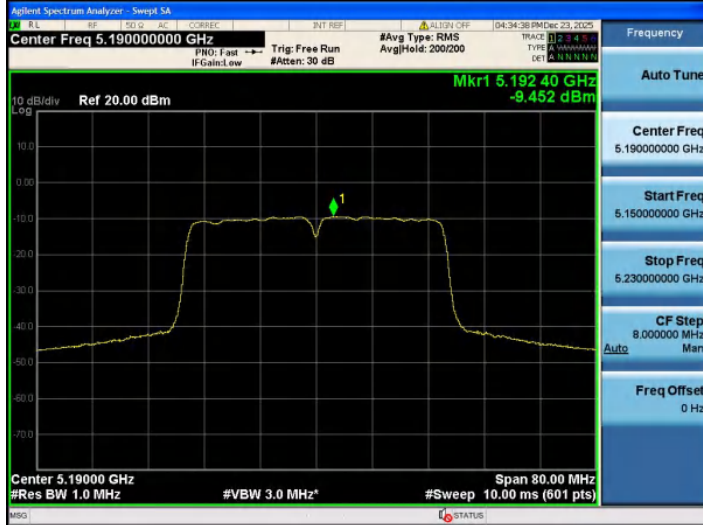
IEEE 802.11ac VHT20_Ant1_CH48 5240MHz



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)

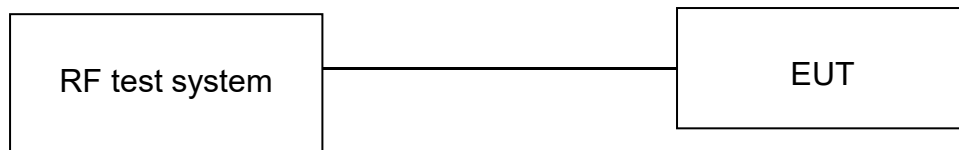
7.1.Limit

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.

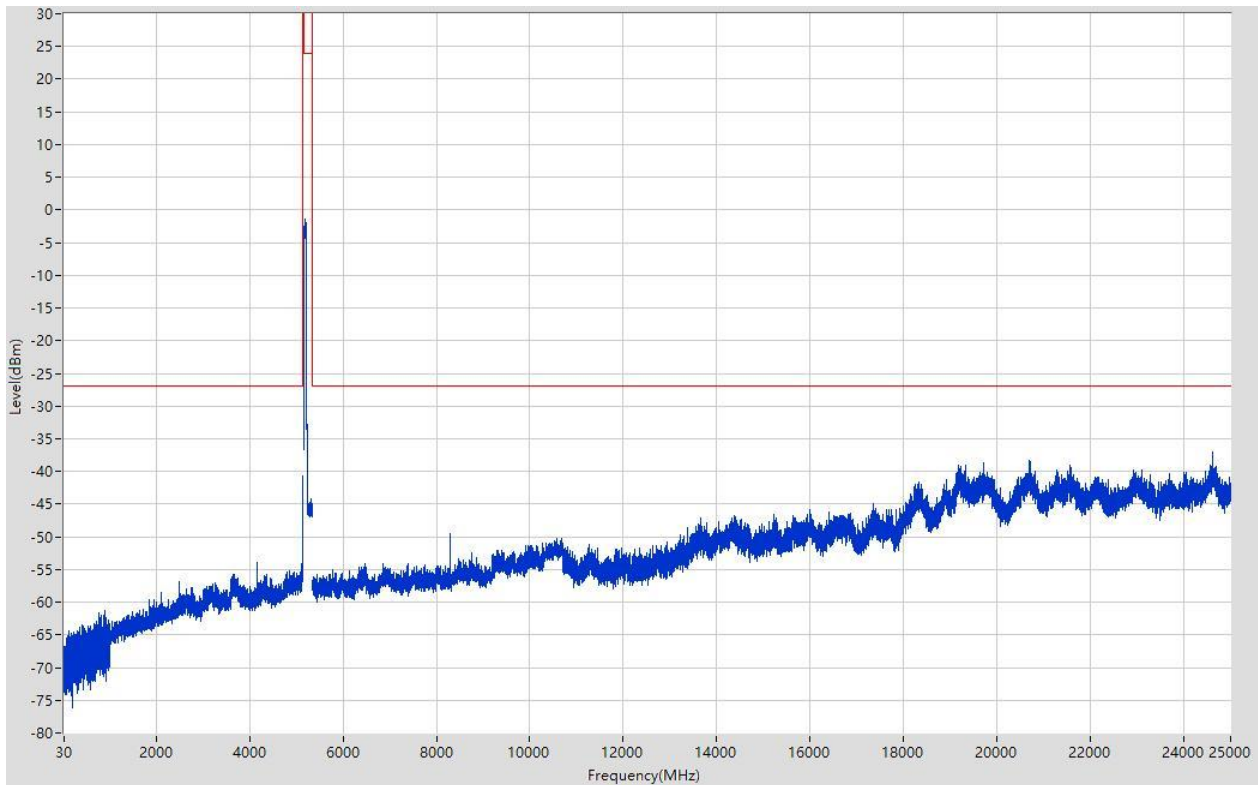
Note:

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_CH38 5190MHz & CH151 5755MHz modulation was worse case mode. The report only reflects the test data of worst mode.

7.4. Test Result

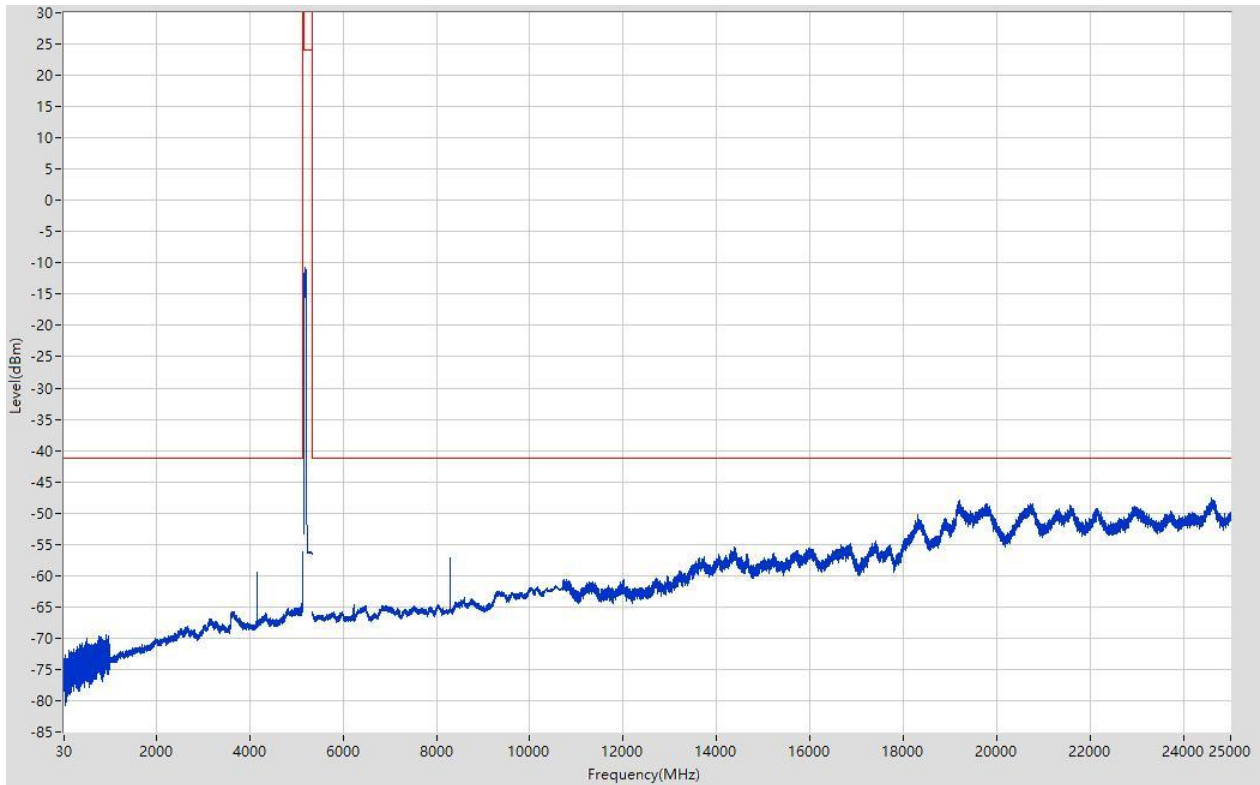
IEEE 802.11ac VHT40_Ant1_CH38 5190MHz- Peak

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	911.8	-61.27	0.746	-27	1995.262	34.27	Pass
1000	5149.9	1	Peak	5149.5	-40.74	84.24	-27	1995.262	13.74	Pass
5150	5349.9	1	Peak	5198.26	-1.32	738243.367	24	251188643.151	25.32	Pass
5350	10300	1	Peak	8304.798	-49.58	11.018	-27	1995.262	22.58	Pass
10300	10700	1	Peak	10569	-50.31	9.313	-27	1995.262	23.31	Pass
10700	25000	1	Peak	24626	-37.01	199.114	-27	1995.262	10.01	Pass



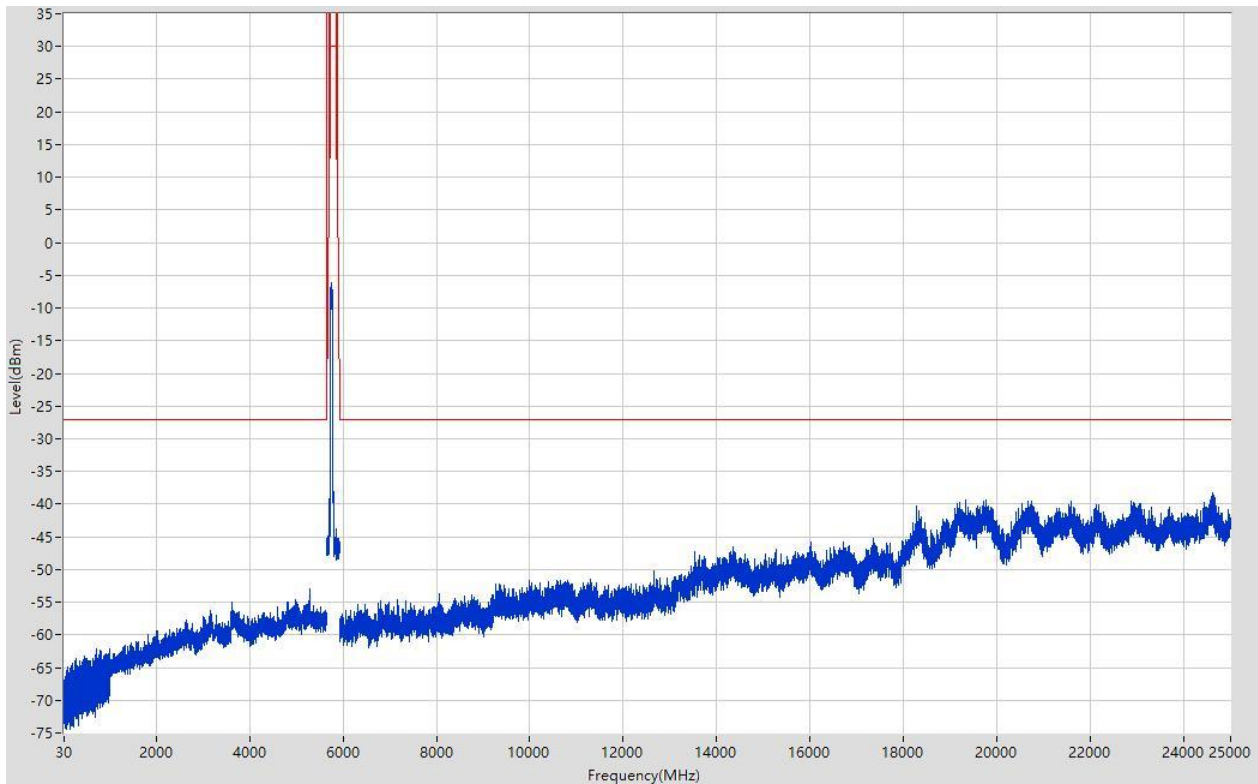
IEEE 802.11ac VHT40_Ant1_CH38 5190MHz- AV

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	940.5	-69.47	0.113	-41.2	75.858	28.27	Pass
1000	5149.9	1	RMS	5149.5	-56.28	2.354	-41.2	75.858	15.08	Pass
5150	5349.9	1	RMS	5192.788	-10.7	85025.629	24	251188643.151	34.7	Pass
5350	10300	1	RMS	8303.798	-57.22	1.895	-41.2	75.858	16.02	Pass
10300	10700	1	RMS	10548	-61.64	0.685	-41.2	75.858	20.44	Pass
10700	25000	1	RMS	24588	-47.59	17.433	-41.2	75.858	6.39	Pass



IEEE 802.11ac VHT40_Ant1_CH151 5755MHz- 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	710.1	-62.14	0.611	-27	1995.262	35.14	Pass
1000	5649.5	1	Peak	5292.462	-52.94	5.085	-27	1995.262	25.94	Pass
5650.5	5699.5	1	Peak	5651.235	-45.83	26.151	-26.45	2267.253	19.38	Pass
5700.5	5719.5	1	Peak	5719.168	-36.06	247.78	15.5	35497682.447	51.56	Pass
5720.5	5724.5	1	Peak	5720.64	-34.25	375.62	16	39801551.354	50.25	Pass
5725.5	5849.5	1	Peak	5742.24	-6.22	238566.189	30	1000000000	36.22	Pass
5850.5	5854.5	1	Peak	5854.43	-45.84	26.058	15.8	38014562.792	61.64	Pass
5855.5	5874.5	1	Peak	5873.17	-45.52	28.081	10.39	10944602.678	55.91	Pass
5875.5	5925	1	Peak	5924.753	-46.63	21.747	-26.81	2082.092	19.81	Pass
5925	25000	1	Peak	24626	-38.23	150.148	-27	1995.262	11.23	Pass



8. RADIATED SPURIOUS EMISSIONS AND BAND EDGE (RESTRICTED-BAND)

8.1. Limit

The maximum emissions outside 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 -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 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.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3
Above 1000	500	

Note 1: The Limit for radiated test was performed according to FCC Part 15C

Note 2: The tighter limit applies at the band edge.

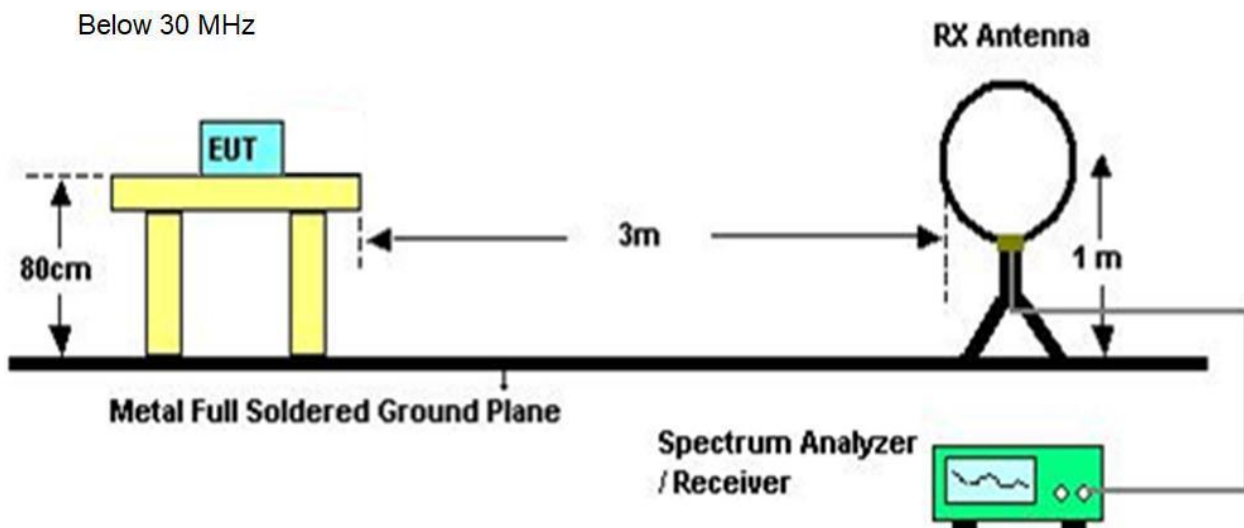
15.205 Restricted frequency band			
MHZ	MHz	MHZ	GHZ
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)

Note:

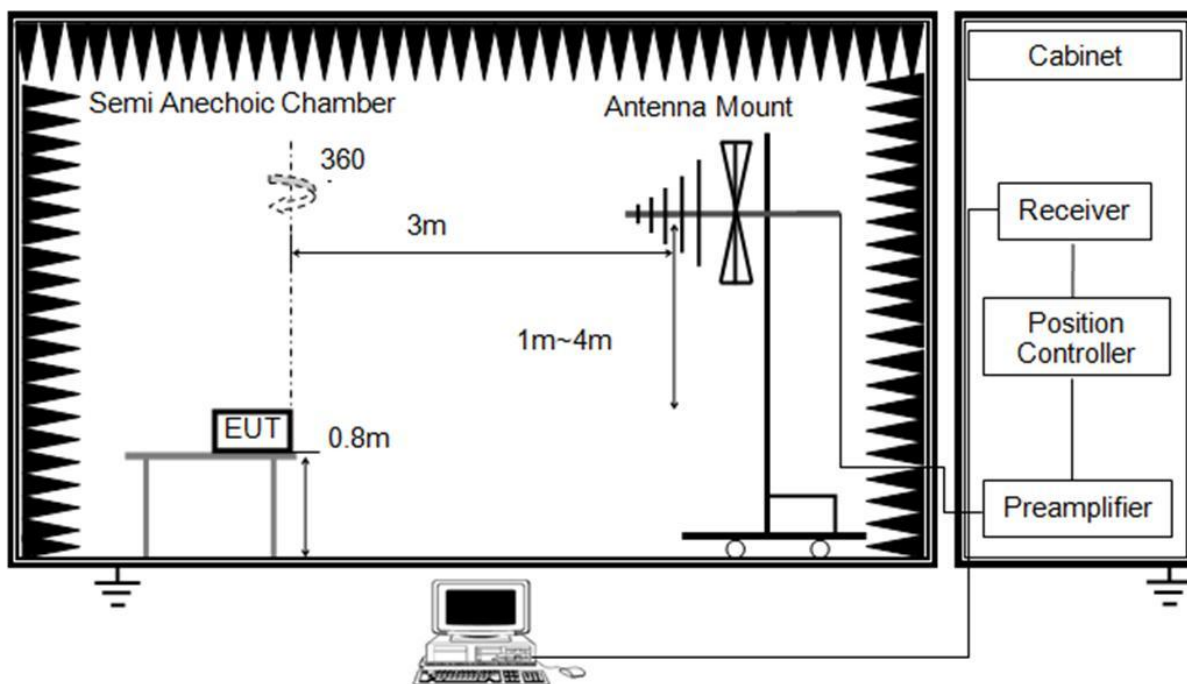
1. $\text{dB}\mu\text{V}/\text{m}=20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength
 $E[\text{dB}\mu\text{V}/\text{m}]=\text{EIRP}[\text{dBm}]-20 \log (d[\text{m}])+104.77$,
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)- $\text{EIRP}-20\log(3)+104.77-\text{EIRP}+95.2$

8.2. Test Setup

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

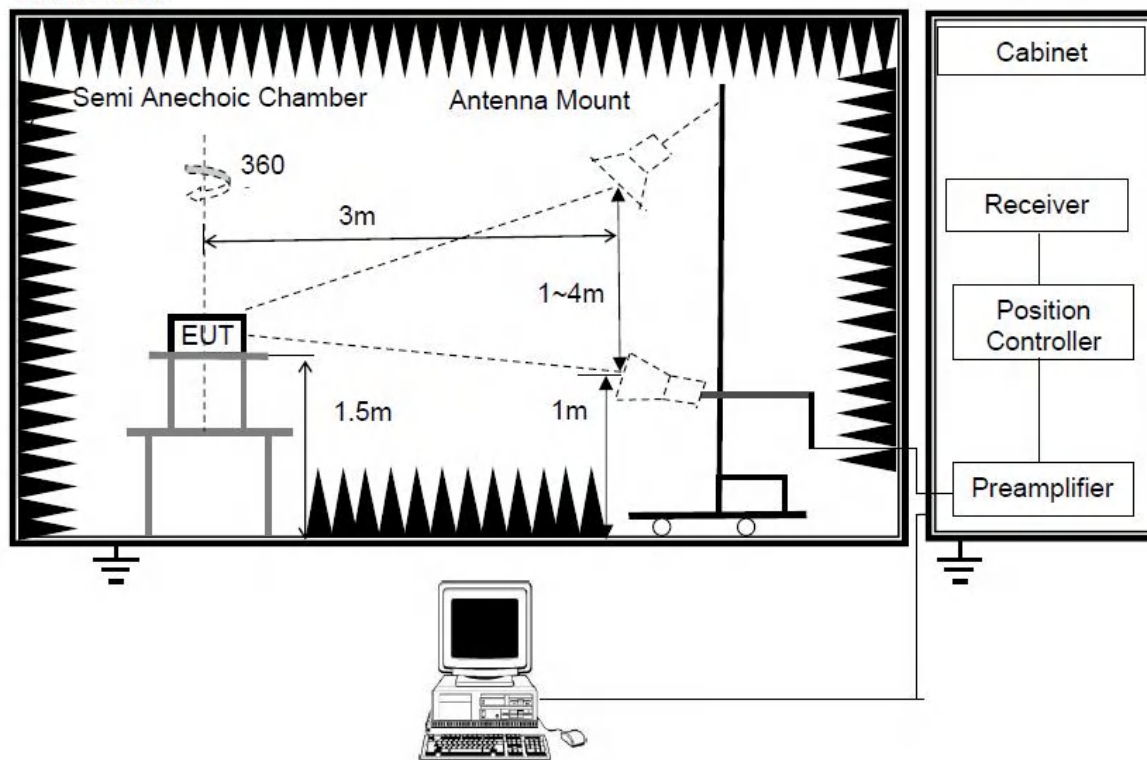


(B) Radiated Emission Test Set-Up, Frequency below 1000MHz
Below 1 GHz and above 30 MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz

Above 1GHz



8.3. Spectrum Analyzer Setting

For 9KHz-150KHz	
Spectrum Parameters	Setting
RBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
VBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note: For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz	
Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz	
Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz		
Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq$ 98%, VBW=10Hz Duty cycle $<$ 98%, VBW $\geq$ 1/T Video bandwidth mode-RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note: T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 3 for the on-time time.

8.4. Test Procedure

- EUT was placed on a turn table, which is 0.8-meter high above ground for below 1GHz test, and which is 1.5-meter high above ground for above 1GHz test.
- The diameter of the turntable is 2 meters. The EUT is located at the center of the edge of the test support table. Since the turntable is large enough, the EUT is placed at the center of the edge of the test support table as well as at the center of the turntable.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level complies with average limit, then the average level is deemed to comply with average limit.
2. For 30-1000MHz Radiation emissions, IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40 and IEEE 802.11ac VHT20 mode with High, medium and low frequency channels all have been tested, only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported.
3. 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.
4. The amplitude of 18GHz to 25GHz and 25GHz to 40GHz spurious emission-that-is attenuated by more than 20dB below the-permissible-limit has no need-to-be-reported.

8.5. Test Result

Radiated Emissions 30-1000MHz

EUT: Tablet PC
M/N: AF13/ES510
Test Voltage: Charging Input: DC 9V by Type-C
Ant. Pol.: Vertical
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below

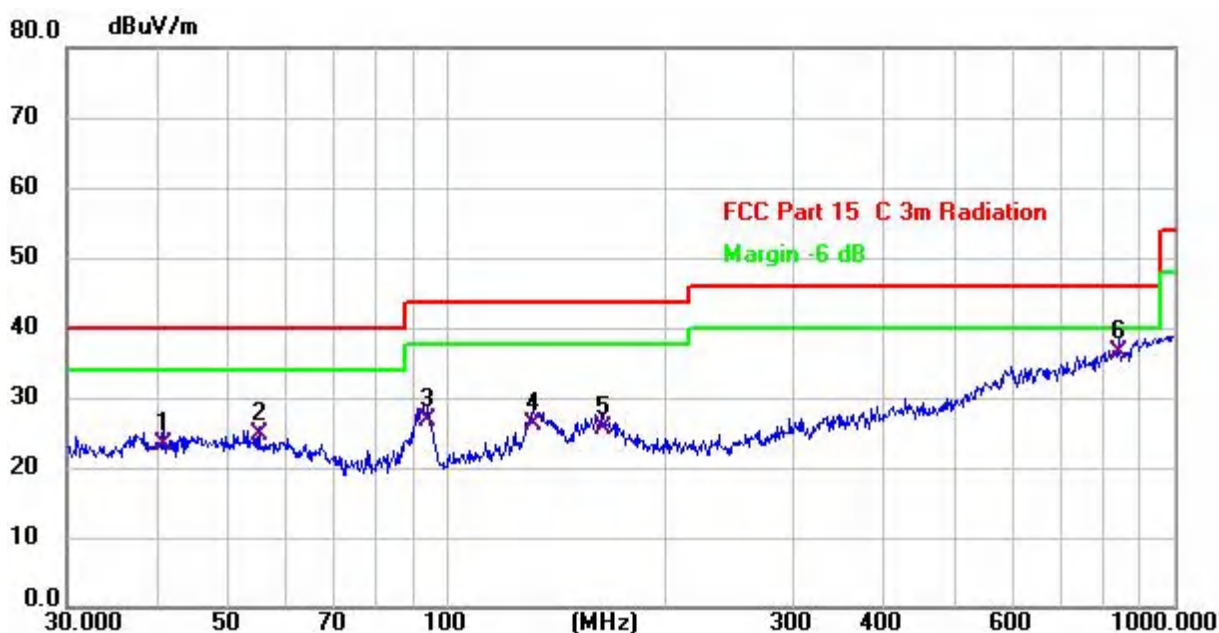


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.966	3.78	19.73	23.51	40.00	-16.49	QP			P	
2	55.415	6.10	18.84	24.94	40.00	-15.06	QP			P	
3 *	92.787	14.63	15.83	30.46	43.50	-13.04	QP			P	
4	134.088	6.29	19.01	25.30	43.50	-18.20	QP			P	
5	158.112	5.11	20.29	25.40	43.50	-18.10	QP			P	
6	588.905	5.73	26.72	32.45	46.00	-13.55	QP			P	

Remarks: 1). Level (dBμV/m) = Reading (dBμV/m) + Factor (dB/m)
2). Factor(dB/m) =Antenna Factor (dB/m) + Cable loss (dB)
3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

EUT: Tablet PC
M/N: AF13/ES510
Test Voltage: Charging Input: DC 9V by Type-C
Ant. Pol.: Horizontal
Test Mode: TX Mode

Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.702	3.57	19.64	23.21	40.00	-16.79	QP			P	
2	55.221	6.02	18.79	24.81	40.00	-15.19	QP			P	
3	93.768	10.84	15.92	26.76	43.50	-16.74	QP			P	
4	131.297	7.02	18.99	26.01	43.50	-17.49	QP			P	
5	164.330	5.27	20.37	25.64	43.50	-17.86	QP			P	
6 *	839.182	6.24	30.07	36.31	46.00	-9.69	QP			P	

Remarks: 1). Level (dBuV/m) = Reading (dBuV/m) + Factor (dB/m)
2). Factor(dB/m) = Antenna Factor (dB/m) + Cable loss (dB)
3). Margin(dB) = Limit (dBuV/m) - Level (dBuV/m)

Radiated Emissions Above 1GHz - IEEE 802.11a (U-NII-1)

IEEE 802.11a-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.300	43.24	-23.82	74.0	30.76	Peak	72.00	150	Vertical	Pass
1**	1332.300	32.80	-23.82	54.0	21.20	AV	72.00	150	Vertical	Pass
2	5134.750	47.95	-10.48	74.0	26.05	Peak	360.00	150	Vertical	Pass
2**	5134.750	40.04	-10.48	54.0	13.96	AV	360.00	150	Vertical	Pass
3	7755.750	51.75	-7.50	68.2	16.45	Peak	288.00	150	Vertical	Pass
3**	7755.750	41.94	-7.50	--	-41.94	AV	288.00	150	Vertical	N/A
4	10367.162	45.98	-4.84	68.2	22.22	Peak	180.00	150	Vertical	Pass
4**	10367.162	37.56	-4.84	--	-37.56	AV	180.00	150	Vertical	N/A
5	15532.763	46.95	-3.04	74.0	27.05	Peak	72.00	150	Vertical	Pass
5**	15532.763	39.47	-3.04	54.0	14.53	AV	72.00	150	Vertical	Pass
6	17490.225	51.95	1.05	68.2	16.25	Peak	108.00	150	Vertical	Pass
6**	17490.225	44.57	1.05	--	-44.57	AV	108.00	150	Vertical	N/A

IEEE 802.11a-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1922.400	50.37	-22.63	68.2	17.83	Peak	108.00	100	Horizontal	Pass
1**	1922.400	47.03	-22.63	--	-47.03	AV	108.00	100	Horizontal	N/A
2	5131.750	50.66	-8.71	74.0	23.34	Peak	216.00	100	Horizontal	Pass
2**	5131.750	41.79	-8.71	54.0	12.21	AV	216.00	100	Horizontal	Pass
3	7311.750	51.97	-6.64	74.0	22.03	Peak	36.00	100	Horizontal	Pass
3**	7311.750	43.85	-6.64	54.0	10.15	AV	36.00	100	Horizontal	Pass
4	10360.750	45.45	-5.10	68.2	22.75	Peak	144.00	100	Horizontal	Pass
4**	10360.750	37.31	-5.10	--	-37.31	AV	144.00	100	Horizontal	N/A
5	15533.025	46.88	-3.04	74.0	27.12	Peak	180.00	100	Horizontal	Pass
5**	15533.025	37.95	-3.04	54.0	16.05	AV	180.00	100	Horizontal	Pass
6	17826.750	52.03	1.02	74.0	21.97	Peak	288.00	100	Horizontal	Pass
6**	17826.750	43.23	1.02	54.0	10.77	AV	288.00	100	Horizontal	Pass

IEEE 802.11a-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2284.800	40.57	-19.46	74.0	33.43	Peak	144.00	150	Vertical	Pass
1**	2284.800	31.25	-19.46	54.0	22.75	AV	144.00	150	Vertical	Pass
2	5147.500	50.69	-8.50	74.0	23.31	Peak	360.00	150	Vertical	Pass
2**	5147.500	40.75	-8.50	54.0	13.25	AV	360.00	150	Vertical	Pass
3	7087.500	53.50	-6.24	68.2	14.70	Peak	252.00	150	Vertical	Pass
3**	7087.500	42.51	-6.24	--	-42.51	AV	252.00	150	Vertical	N/A
4	10442.925	46.33	-5.23	68.2	21.87	Peak	360.00	150	Vertical	Pass
4**	10442.925	37.43	-5.23	--	-37.43	AV	360.00	150	Vertical	N/A
5	15655.349	47.88	-2.49	74.0	26.12	Peak	360.00	150	Vertical	Pass
5**	15655.349	38.64	-2.49	54.0	15.36	AV	360.00	150	Vertical	Pass
6	17933.588	52.49	1.61	74.0	21.51	Peak	360.00	150	Vertical	Pass
6**	17933.588	44.22	1.61	54.0	9.78	AV	360.00	150	Vertical	Pass

IEEE 802.11a-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1759.100	43.18	-23.61	68.2	25.02	Peak	180.00	150	Horizontal	Pass
1**	1759.100	28.31	-23.61	--	-28.31	AV	180.00	150	Horizontal	N/A
2	5107.500	49.71	-9.01	74.0	24.29	Peak	72.00	150	Horizontal	Pass
2**	5107.500	40.62	-9.01	54.0	13.38	AV	72.00	150	Horizontal	Pass
3	7065.750	52.68	-6.24	68.2	15.52	Peak	108.00	150	Horizontal	Pass
3**	7065.750	42.26	-6.24	--	-42.26	AV	108.00	150	Horizontal	N/A
4	10441.026	46.65	-5.22	68.2	21.55	Peak	288.00	150	Horizontal	Pass
4**	10441.026	37.51	-5.22	--	-37.51	AV	288.00	150	Horizontal	N/A
5	15650.099	47.34	-2.47	74.0	26.66	Peak	180.00	150	Horizontal	Pass
5**	15650.099	38.77	-2.47	54.0	15.23	AV	180.00	150	Horizontal	Pass
6	17487.073	52.94	1.19	68.2	15.26	Peak	216.00	150	Horizontal	Pass
6**	17487.073	42.97	1.19	--	-42.97	AV	216.00	150	Horizontal	N/A

IEEE 802.11a-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.100	41.35	-23.90	74.0	32.65	Peak	180.00	100	Vertical	Pass
1**	1330.100	31.62	-23.90	54.0	22.38	AV	180.00	100	Vertical	Pass
2	5148.000	49.72	-8.49	74.0	24.28	Peak	144.00	100	Vertical	Pass
2**	5148.000	41.33	-8.49	54.0	12.67	AV	144.00	100	Vertical	Pass
3	7288.250	52.57	-6.52	74.0	21.43	Peak	216.00	100	Vertical	Pass
3**	7288.250	42.88	-6.52	54.0	11.12	AV	216.00	100	Vertical	Pass
4	10470.000	44.16	-4.65	68.2	24.04	Peak	180.00	100	Vertical	Pass
4**	10470.000	37.70	-4.65	--	-37.70	AV	180.00	100	Vertical	N/A
5	15709.950	46.40	-2.44	74.0	27.60	Peak	108.00	100	Vertical	Pass
5**	15709.950	40.14	-2.44	54.0	13.86	AV	108.00	100	Vertical	Pass
6	17481.300	52.70	1.43	68.2	15.50	Peak	144.00	100	Vertical	Pass
6**	17481.300	42.53	1.43	--	-42.53	AV	144.00	100	Vertical	N/A

IEEE 802.11a-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	42.52	-23.89	74.0	31.48	Peak	324.00	150	Horizontal	Pass
1**	1329.300	33.06	-23.89	54.0	20.94	AV	324.00	150	Horizontal	Pass
2	5141.750	49.49	-8.56	74.0	24.51	Peak	252.00	150	Horizontal	Pass
2**	5141.750	41.16	-8.56	54.0	12.84	AV	252.00	150	Horizontal	Pass
3	7040.250	52.11	-5.45	68.2	16.09	Peak	36.00	150	Horizontal	Pass
3**	7040.250	43.74	-5.45	--	-43.74	AV	36.00	150	Horizontal	N/A
4	10470.000	43.69	-4.65	68.2	24.51	Peak	144.00	150	Horizontal	Pass
4**	10470.000	37.50	-4.65	--	-37.50	AV	144.00	150	Horizontal	N/A
5	15709.950	46.58	-2.44	74.0	27.42	Peak	180.00	150	Horizontal	Pass
5**	15709.950	39.80	-2.44	54.0	14.20	AV	180.00	150	Horizontal	Pass
6	17482.351	52.40	1.38	68.2	15.80	Peak	288.00	150	Horizontal	Pass
6**	17482.351	43.22	1.38	--	-43.22	AV	288.00	150	Horizontal	N/A

Radiated Emissions Above 1GHz - IEEE 802.11a (U-NII-3)

IEEE 802.11a-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1327.900	41.60	-23.85	74.0	32.40	Peak	288.00	150	Horizontal	Pass
1**	1327.900	34.95	-23.85	54.0	19.05	AV	288.00	150	Horizontal	Pass
2	4848.750	48.39	-11.58	74.0	25.61	Peak	36.00	150	Horizontal	Pass
2**	4848.750	38.16	-11.58	54.0	15.84	AV	36.00	150	Horizontal	Pass
3	7880.250	51.31	-7.10	68.2	16.89	Peak	360.00	150	Horizontal	Pass
3**	7880.250	41.48	-7.10	--	-41.48	AV	360.00	150	Horizontal	N/A
4	11489.825	43.51	-5.05	74.0	30.49	Peak	144.00	150	Horizontal	Pass
4**	11489.825	36.80	-5.05	54.0	17.20	AV	144.00	150	Horizontal	Pass
5	17234.813	50.44	0.73	68.2	17.76	Peak	72.00	150	Horizontal	Pass
5**	17234.813	41.53	0.73	--	-41.53	AV	72.00	150	Horizontal	N/A
6	17931.225	52.44	1.64	74.0	21.56	Peak	288.00	150	Horizontal	Pass
6**	17931.225	42.85	1.64	54.0	11.15	AV	288.00	150	Horizontal	Pass

IEEE 802.11a-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.500	41.65	-23.85	74.0	32.35	Peak	144.00	100	Vertical	Pass
1**	1329.500	33.97	-23.85	54.0	20.03	AV	144.00	100	Vertical	Pass
2	4878.750	48.58	-11.25	74.0	25.42	Peak	36.00	100	Vertical	Pass
2**	4878.750	39.66	-11.25	54.0	14.34	AV	36.00	100	Vertical	Pass
3	7890.000	52.09	-7.19	68.2	16.11	Peak	216.00	100	Vertical	Pass
3**	7890.000	42.22	-7.19	--	-42.22	AV	216.00	100	Vertical	N/A
4	11489.825	43.82	-5.05	74.0	30.18	Peak	288.00	100	Vertical	Pass
4**	11489.825	37.32	-5.05	54.0	16.68	AV	288.00	100	Vertical	Pass
5	17234.813	48.00	0.73	68.2	20.20	Peak	288.00	100	Vertical	Pass
5**	17234.813	42.09	0.73	--	-42.09	AV	288.00	100	Vertical	N/A
6	17825.962	51.98	1.03	74.0	22.02	Peak	324.00	100	Vertical	Pass
6**	17825.962	42.15	1.03	54.0	11.85	AV	324.00	100	Vertical	Pass

IEEE 802.11a-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1757.200	41.39	-23.40	68.2	26.81	Peak	216.00	100	Horizontal	Pass
1**	1757.200	28.07	-23.40	--	-28.07	AV	216.00	100	Horizontal	N/A
2	4855.000	48.37	-11.52	74.0	25.63	Peak	360.00	100	Horizontal	Pass
2**	4855.000	39.67	-11.52	54.0	14.33	AV	360.00	100	Horizontal	Pass
3	7991.250	51.33	-6.62	68.2	16.87	Peak	288.00	100	Horizontal	Pass
3**	7991.250	42.00	-6.62	--	-42.00	AV	288.00	100	Horizontal	N/A
4	10438.175	45.97	-5.11	68.2	22.23	Peak	324.00	100	Horizontal	Pass
4**	10438.175	38.64	-5.11	--	-38.64	AV	324.00	100	Horizontal	N/A
5	15664.538	46.77	-2.52	74.0	27.23	Peak	252.00	100	Horizontal	Pass
5**	15664.538	39.59	-2.52	54.0	14.41	AV	252.00	100	Horizontal	Pass
6	17929.912	51.90	1.64	74.0	22.10	Peak	216.00	100	Horizontal	Pass
6**	17929.912	42.88	1.64	54.0	11.12	AV	216.00	100	Horizontal	Pass

IEEE 802.11a-CH157 5785MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2292.000	40.70	-19.41	74.0	33.30	Peak	360.00	150	Vertical	Pass
1**	2292.000	31.54	-19.41	54.0	22.46	AV	360.00	150	Vertical	Pass
2	5004.000	48.07	-11.20	74.0	25.93	Peak	216.00	150	Vertical	Pass
2**	5004.000	38.98	-11.20	54.0	15.02	AV	216.00	150	Vertical	Pass
3	7745.750	51.11	-7.37	74.0	22.89	Peak	360.00	150	Vertical	Pass
3**	7745.750	41.78	-7.37	54.0	12.22	AV	360.00	150	Vertical	Pass
4	11569.863	44.85	-4.51	74.0	29.15	Peak	252.00	150	Vertical	Pass
4**	11569.863	38.62	-4.51	54.0	15.38	AV	252.00	150	Vertical	Pass
5	17354.775	48.28	0.74	68.2	19.92	Peak	252.00	150	Vertical	Pass
5**	17354.775	42.16	0.74	--	-42.16	AV	252.00	150	Vertical	N/A
6	17942.249	52.09	1.43	74.0	21.91	Peak	72.00	150	Vertical	Pass
6**	17942.249	42.96	1.43	54.0	11.04	AV	72.00	150	Vertical	Pass

IEEE 802.11a-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1683.600	41.73	-23.71	74.0	32.27	Peak	252.00	150	Vertical	Pass
1**	1683.600	29.45	-23.71	54.0	24.55	AV	252.00	150	Vertical	Pass
2	5082.500	47.85	-10.90	74.0	26.15	Peak	180.00	150	Vertical	Pass
2**	5082.500	38.39	-10.90	54.0	15.61	AV	180.00	150	Vertical	Pass
3	7092.000	51.15	-7.09	68.2	17.05	Peak	252.00	150	Vertical	Pass
3**	7092.000	41.29	-7.09	--	-41.29	AV	252.00	150	Vertical	N/A
4	11649.901	45.10	-3.75	74.0	28.90	Peak	360.00	150	Vertical	Pass
4**	11649.901	38.91	-3.75	54.0	15.09	AV	360.00	150	Vertical	Pass
5	17474.738	49.47	1.53	68.2	18.73	Peak	36.00	150	Vertical	Pass
5**	17474.738	43.40	1.53	--	-43.40	AV	36.00	150	Vertical	N/A
6	17530.386	52.56	1.01	68.2	15.64	Peak	324.00	150	Vertical	Pass
6**	17530.386	42.76	1.01	--	-42.76	AV	324.00	150	Vertical	N/A

IEEE 802.11a-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.600	40.84	-23.85	74.0	33.16	Peak	360.00	150	Horizontal	Pass
1**	1328.600	33.83	-23.85	54.0	20.17	AV	360.00	150	Horizontal	Pass
2	5119.000	48.44	-10.60	74.0	25.56	Peak	216.00	150	Horizontal	Pass
2**	5119.000	39.40	-10.60	54.0	14.60	AV	216.00	150	Horizontal	Pass
3	7689.500	51.42	-6.98	74.0	22.58	Peak	324.00	150	Horizontal	Pass
3**	7689.500	41.45	-6.98	54.0	12.55	AV	324.00	150	Horizontal	Pass
4	11649.901	45.20	-3.75	74.0	28.80	Peak	360.00	150	Horizontal	Pass
4**	11649.901	38.58	-3.75	54.0	15.42	AV	360.00	150	Horizontal	Pass
5	17474.738	49.16	1.53	68.2	19.04	Peak	144.00	150	Horizontal	Pass
5**	17474.738	42.99	1.53	--	-42.99	AV	144.00	150	Horizontal	N/A
6	17819.927	52.18	1.12	74.0	21.82	Peak	360.00	150	Horizontal	Pass
6**	17819.927	42.31	1.12	54.0	11.69	AV	360.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz-IEEE 802.11n HT20 (U-NII-1)

IEEE 802.11n HT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2189.700	42.70	-20.00	68.2	25.50	Peak	180.00	150	Vertical	Pass
1**	2189.700	31.29	-20.00	--	-31.29	AV	180.00	150	Vertical	N/A
2	5121.500	49.78	-8.86	74.0	24.22	Peak	324.00	150	Vertical	Pass
2**	5121.500	41.47	-8.86	54.0	12.53	AV	324.00	150	Vertical	Pass
3	7020.250	52.74	-5.56	68.2	15.46	Peak	36.00	150	Vertical	Pass
3**	7020.250	42.80	-5.56	--	-42.80	AV	36.00	150	Vertical	N/A
4	10355.526	46.98	-5.24	68.2	21.22	Peak	216.00	150	Vertical	Pass
4**	10355.526	36.81	-5.24	--	-36.81	AV	216.00	150	Vertical	N/A
5	15535.126	47.16	-3.04	74.0	26.84	Peak	324.00	150	Vertical	Pass
5**	15535.126	37.84	-3.04	54.0	16.16	AV	324.00	150	Vertical	Pass
6	17928.600	52.19	1.54	74.0	21.81	Peak	144.00	150	Vertical	Pass
6**	17928.600	43.52	1.54	54.0	10.48	AV	144.00	150	Vertical	Pass

IEEE 802.11n HT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.400	41.33	-23.91	74.0	32.67	Peak	180.00	150	Horizontal	Pass
1**	1331.400	33.57	-23.91	54.0	20.43	AV	180.00	150	Horizontal	Pass
2	5131.750	50.17	-8.71	74.0	23.83	Peak	36.00	150	Horizontal	Pass
2**	5131.750	40.35	-8.71	54.0	13.65	AV	36.00	150	Horizontal	Pass
3	7033.500	53.51	-5.52	68.2	14.69	Peak	252.00	150	Horizontal	Pass
3**	7033.500	43.60	-5.52	--	-43.60	AV	252.00	150	Horizontal	N/A
4	10369.063	45.46	-4.77	68.2	22.74	Peak	72.00	150	Horizontal	Pass
4**	10369.063	37.73	-4.77	--	-37.73	AV	72.00	150	Horizontal	N/A
5	15542.475	46.62	-3.00	74.0	27.38	Peak	72.00	150	Horizontal	Pass
5**	15542.475	38.53	-3.00	54.0	15.47	AV	72.00	150	Horizontal	Pass
6	17935.161	51.62	1.60	74.0	22.38	Peak	252.00	150	Horizontal	Pass
6**	17935.161	42.56	1.60	54.0	11.44	AV	252.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1723.700	41.27	-23.68	68.2	26.93	Peak	72.00	150	Vertical	Pass
1**	1723.700	27.65	-23.68	--	-27.65	AV	72.00	150	Vertical	N/A
2	5143.750	49.37	-8.54	74.0	24.63	Peak	324.00	150	Vertical	Pass
2**	5143.750	41.06	-8.54	54.0	12.94	AV	324.00	150	Vertical	Pass
3	6951.750	53.35	-6.82	68.2	14.85	Peak	216.00	150	Vertical	Pass
3**	6951.750	42.70	-6.82	--	-42.70	AV	216.00	150	Vertical	N/A
4	10432.950	47.06	-4.81	68.2	21.14	Peak	360.00	150	Vertical	Pass
4**	10432.950	37.85	-4.81	--	-37.85	AV	360.00	150	Vertical	N/A
5	15669.787	47.34	-2.54	74.0	26.66	Peak	360.00	150	Vertical	Pass
5**	15669.787	38.99	-2.54	54.0	15.01	AV	360.00	150	Vertical	Pass
6	17475.262	52.34	1.52	68.2	15.86	Peak	108.00	150	Vertical	Pass
6**	17475.262	43.80	1.52	--	-43.80	AV	108.00	150	Vertical	N/A

IEEE 802.11n HT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.600	41.49	-23.92	74.0	32.51	Peak	180.00	150	Horizontal	Pass
1**	1332.600	34.91	-23.92	54.0	19.09	AV	180.00	150	Horizontal	Pass
2	5141.000	49.17	-8.57	74.0	24.83	Peak	360.00	150	Horizontal	Pass
2**	5141.000	40.75	-8.57	54.0	13.25	AV	360.00	150	Horizontal	Pass
3	7017.750	52.15	-5.55	68.2	16.05	Peak	72.00	150	Horizontal	Pass
3**	7017.750	43.70	-5.55	--	-43.70	AV	72.00	150	Horizontal	N/A
4	10440.549	47.19	-5.22	68.2	21.01	Peak	108.00	150	Horizontal	Pass
4**	10440.549	37.23	-5.22	--	-37.23	AV	108.00	150	Horizontal	N/A
5	15658.762	47.09	-2.50	74.0	26.91	Peak	360.00	150	Horizontal	Pass
5**	15658.762	39.03	-2.50	54.0	14.97	AV	360.00	150	Horizontal	Pass
6	17937.263	52.64	1.56	74.0	21.36	Peak	252.00	150	Horizontal	Pass
6**	17937.263	43.73	1.56	54.0	10.27	AV	252.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1786.100	41.58	-23.49	68.2	26.62	Peak	72.00	150	Horizontal	Pass
1**	1786.100	32.97	-23.49	--	-32.97	AV	72.00	150	Horizontal	N/A
2	4771.750	49.59	-10.49	74.0	24.41	Peak	252.00	150	Horizontal	Pass
2**	4771.750	39.73	-10.49	54.0	14.27	AV	252.00	150	Horizontal	Pass
3	6999.500	52.97	-5.66	68.2	15.23	Peak	36.00	150	Horizontal	Pass
3**	6999.500	42.81	-5.66	--	-42.81	AV	36.00	150	Horizontal	N/A
4	10470.000	43.96	-4.65	68.2	24.24	Peak	144.00	150	Horizontal	Pass
4**	10470.000	37.92	-4.65	--	-37.92	AV	144.00	150	Horizontal	N/A
5	15709.950	46.89	-2.44	74.0	27.11	Peak	216.00	150	Horizontal	Pass
5**	15709.950	39.42	-2.44	54.0	14.58	AV	216.00	150	Horizontal	Pass
6	17478.412	51.88	1.49	68.2	16.32	Peak	252.00	150	Horizontal	Pass
6**	17478.412	43.73	1.49	--	-43.73	AV	252.00	150	Horizontal	N/A

IEEE 802.11n HT20-CH48 5240MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2285.600	40.66	-19.46	74.0	33.34	Peak	288.00	150	Vertical	Pass
1**	2285.600	30.30	-19.46	54.0	23.70	AV	288.00	150	Vertical	Pass
2	5122.000	49.53	-8.85	74.0	24.47	Peak	324.00	150	Vertical	Pass
2**	5122.000	40.83	-8.85	54.0	13.17	AV	324.00	150	Vertical	Pass
3	7651.500	52.82	-6.32	74.0	21.18	Peak	72.00	150	Vertical	Pass
3**	7651.500	42.80	-6.32	54.0	11.20	AV	72.00	150	Vertical	Pass
4	10470.000	43.68	-4.65	68.2	24.52	Peak	144.00	150	Vertical	Pass
4**	10470.000	37.50	-4.65	--	-37.50	AV	144.00	150	Vertical	N/A
5	15709.950	46.04	-2.44	74.0	27.96	Peak	360.00	150	Vertical	Pass
5**	15709.950	39.59	-2.44	54.0	14.41	AV	360.00	150	Vertical	Pass
6	17535.113	52.65	0.91	68.2	15.55	Peak	144.00	150	Vertical	Pass
6**	17535.113	43.39	0.91	--	-43.39	AV	144.00	150	Vertical	N/A

Radiated Emissions Above 1GHz - IEEE 802.11n HT20 (U-NII-3)

IEEE 802.11n HT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1757.400	40.83	-23.40	68.2	27.37	Peak	288.00	150	Horizontal	Pass
1**	1757.400	28.31	-23.40	--	-28.31	AV	288.00	150	Horizontal	N/A
2	5130.250	48.00	-10.54	74.0	26.00	Peak	288.00	150	Horizontal	Pass
2**	5130.250	39.06	-10.54	54.0	14.94	AV	288.00	150	Horizontal	Pass
3	7793.500	51.18	-7.42	68.2	17.02	Peak	252.00	150	Horizontal	Pass
3**	7793.500	41.01	-7.42	--	-41.01	AV	252.00	150	Horizontal	N/A
4	11489.825	44.70	-5.05	74.0	29.30	Peak	180.00	150	Horizontal	Pass
4**	11489.825	36.63	-5.05	54.0	17.37	AV	180.00	150	Horizontal	Pass
5	17234.813	48.86	0.73	68.2	19.34	Peak	360.00	150	Horizontal	Pass
5**	17234.813	42.06	0.73	--	-42.06	AV	360.00	150	Horizontal	N/A
6	17483.401	51.96	1.34	68.2	16.24	Peak	36.00	150	Horizontal	Pass
6**	17483.401	42.95	1.34	--	-42.95	AV	36.00	150	Horizontal	N/A

IEEE 802.11n HT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1998.000	41.45	-21.79	68.2	26.75	Peak	216.00	150	Vertical	Pass
1**	1998.000	30.54	-21.79	--	-30.54	AV	216.00	150	Vertical	N/A
2	5015.500	48.10	-11.11	74.0	25.90	Peak	288.00	150	Vertical	Pass
2**	5015.500	38.14	-11.11	54.0	15.86	AV	288.00	150	Vertical	Pass
3	6803.500	51.27	-8.43	68.2	16.93	Peak	144.00	150	Vertical	Pass
3**	6803.500	40.75	-8.43	--	-40.75	AV	144.00	150	Vertical	N/A
4	11489.825	44.00	-5.05	74.0	30.00	Peak	144.00	150	Vertical	Pass
4**	11489.825	35.92	-5.05	54.0	18.08	AV	144.00	150	Vertical	Pass
5	17234.813	48.01	0.73	68.2	20.19	Peak	360.00	150	Vertical	Pass
5**	17234.813	41.57	0.73	--	-41.57	AV	360.00	150	Vertical	N/A
6	17937.525	51.95	1.56	74.0	22.05	Peak	216.00	150	Vertical	Pass
6**	17937.525	43.40	1.56	54.0	10.60	AV	216.00	150	Vertical	Pass

IEEE 802.11n HT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1727.700	42.72	-23.54	68.2	25.48	Peak	288.00	150	Horizontal	Pass
1**	1727.700	27.56	-23.54	--	-27.56	AV	288.00	150	Horizontal	N/A
2	5128.750	48.26	-10.55	74.0	25.74	Peak	360.00	150	Horizontal	Pass
2**	5128.750	39.05	-10.55	54.0	14.95	AV	360.00	150	Horizontal	Pass
3	7687.000	51.63	-6.98	74.0	22.37	Peak	360.00	150	Horizontal	Pass
3**	7687.000	41.58	-6.98	54.0	12.42	AV	360.00	150	Horizontal	Pass
4	11569.863	45.09	-4.51	74.0	28.91	Peak	72.00	150	Horizontal	Pass
4**	11569.863	37.75	-4.51	54.0	16.25	AV	72.00	150	Horizontal	Pass
5	17354.775	49.01	0.74	68.2	19.19	Peak	324.00	150	Horizontal	Pass
5**	17354.775	42.01	0.74	--	-42.01	AV	324.00	150	Horizontal	N/A
6	17940.677	52.03	1.49	74.0	21.97	Peak	216.00	150	Horizontal	Pass
6**	17940.677	43.56	1.49	54.0	10.44	AV	216.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1640.900	41.72	-23.81	68.2	26.48	Peak	252.00	150	Vertical	Pass
1**	1640.900	27.81	-23.81	--	-27.81	AV	252.00	150	Vertical	N/A
2	5129.500	47.99	-10.54	74.0	26.01	Peak	72.00	150	Vertical	Pass
2**	5129.500	39.06	-10.54	54.0	14.94	AV	72.00	150	Vertical	Pass
3	7094.750	51.13	-7.16	68.2	17.07	Peak	72.00	150	Vertical	Pass
3**	7094.750	42.35	-7.16	--	-42.35	AV	72.00	150	Vertical	N/A
4	11569.863	44.12	-4.51	74.0	29.88	Peak	108.00	150	Vertical	Pass
4**	11569.863	38.09	-4.51	54.0	15.91	AV	108.00	150	Vertical	Pass
5	17354.775	47.99	0.74	68.2	20.21	Peak	108.00	150	Vertical	Pass
5**	17354.775	41.41	0.74	--	-41.41	AV	108.00	150	Vertical	N/A
6	17757.188	52.64	0.73	74.0	21.36	Peak	252.00	150	Vertical	Pass
6**	17757.188	41.76	0.73	54.0	12.24	AV	252.00	150	Vertical	Pass

IEEE 802.11n HT20-CH165 5825MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2204.500	42.07	-19.62	74.0	31.93	Peak	360.00	150	Vertical	Pass
1**	2204.500	31.30	-19.62	54.0	22.70	AV	360.00	150	Vertical	Pass
2	5133.750	48.23	-10.49	74.0	25.77	Peak	180.00	150	Vertical	Pass
2**	5133.750	38.58	-10.49	54.0	15.42	AV	180.00	150	Vertical	Pass
3	7993.000	51.54	-6.62	68.2	16.66	Peak	36.00	150	Vertical	Pass
3**	7993.000	41.14	-6.62	--	-41.14	AV	36.00	150	Vertical	N/A
4	11649.901	45.32	-3.75	74.0	28.68	Peak	360.00	150	Vertical	Pass
4**	11649.901	38.59	-3.75	54.0	15.41	AV	360.00	150	Vertical	Pass
5	17474.738	49.62	1.53	68.2	18.58	Peak	360.00	150	Vertical	Pass
5**	17474.738	42.66	1.53	--	-42.66	AV	360.00	150	Vertical	N/A
6	17929.912	52.36	1.64	74.0	21.64	Peak	72.00	150	Vertical	Pass
6**	17929.912	43.33	1.64	54.0	10.67	AV	72.00	150	Vertical	Pass

IEEE 802.11n HT20CH165 5825MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1767.300	42.12	-23.35	68.2	26.08	Peak	216.00	150	Horizontal	Pass
1**	1767.300	28.97	-23.35	--	-28.97	AV	216.00	150	Horizontal	N/A
2	5073.000	48.23	-10.78	74.0	25.77	Peak	180.00	150	Horizontal	Pass
2**	5073.000	38.17	-10.78	54.0	15.83	AV	180.00	150	Horizontal	Pass
3	5865.000	50.85	-9.21	108.0	57.15	Peak	324.00	150	Horizontal	Pass
3**	5865.000	39.84	-9.21	--	-39.84	AV	324.00	150	Horizontal	N/A
4	11649.901	44.44	-3.75	74.0	29.56	Peak	36.00	150	Horizontal	Pass
4**	11649.901	37.59	-3.75	54.0	16.41	AV	36.00	150	Horizontal	Pass
5	17474.738	50.80	1.53	68.2	17.40	Peak	360.00	150	Horizontal	Pass
5**	17474.738	42.69	1.53	--	-42.69	AV	360.00	150	Horizontal	N/A
6	17923.088	52.20	1.11	74.0	21.80	Peak	288.00	150	Horizontal	Pass
6**	17923.088	43.57	1.11	54.0	10.43	AV	288.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11n HT40 (U-NII-1)

IEEE 802.11n HT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2297.500	41.10	-19.51	74.0	32.90	Peak	72.00	150	Vertical	Pass
1**	2297.500	31.43	-19.51	54.0	22.57	AV	72.00	150	Vertical	Pass
2	5099.500	49.53	-9.18	74.0	24.47	Peak	36.00	150	Vertical	Pass
2**	5099.500	39.90	-9.18	54.0	14.10	AV	36.00	150	Vertical	Pass
3	7304.500	52.55	-6.59	74.0	21.45	Peak	36.00	150	Vertical	Pass
3**	7304.500	43.21	-6.59	54.0	10.79	AV	36.00	150	Vertical	Pass
4	10379.987	43.27	-4.95	68.2	24.93	Peak	360.00	150	Vertical	Pass
4**	10379.987	37.05	-4.95	--	-37.05	AV	360.00	150	Vertical	N/A
5	15569.776	45.53	-2.83	74.0	28.47	Peak	360.00	150	Vertical	Pass
5**	15569.776	39.15	-2.83	54.0	14.85	AV	360.00	150	Vertical	Pass
6	17477.100	52.13	1.50	68.2	16.07	Peak	72.00	150	Vertical	Pass
6**	17477.100	43.32	1.50	--	-43.32	AV	72.00	150	Vertical	N/A

IEEE 802.11n HT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1763.200	42.75	-23.58	68.2	25.45	Peak	360.00	150	Horizontal	Pass
1**	1763.200	28.37	-23.58	--	-28.37	AV	360.00	150	Horizontal	N/A
2	4866.250	49.88	-10.02	74.0	24.12	Peak	252.00	150	Horizontal	Pass
2**	4866.250	40.15	-10.02	54.0	13.85	AV	252.00	150	Horizontal	Pass
3	6386.500	52.10	-7.30	68.2	16.10	Peak	108.00	150	Horizontal	Pass
3**	6386.500	41.62	-7.30	--	-41.62	AV	108.00	150	Horizontal	N/A
4	10379.987	44.07	-4.95	68.2	24.13	Peak	360.00	150	Horizontal	Pass
4**	10379.987	36.64	-4.95	--	-36.64	AV	360.00	150	Horizontal	N/A
5	15569.776	44.95	-2.83	74.0	29.05	Peak	36.00	150	Horizontal	Pass
5**	15569.776	39.10	-2.83	54.0	14.90	AV	36.00	150	Horizontal	Pass
6	17808.900	52.40	0.67	74.0	21.60	Peak	180.00	150	Horizontal	Pass
6**	17808.900	42.31	0.67	54.0	11.69	AV	180.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2339.900	42.21	-19.71	74.0	31.79	Peak	180.00	150	Vertical	Pass
1**	2339.900	36.99	-19.71	54.0	17.01	AV	180.00	150	Vertical	Pass
2	5146.500	50.59	-8.51	74.0	23.41	Peak	72.00	150	Vertical	Pass
2**	5146.500	41.54	-8.51	54.0	12.46	AV	72.00	150	Vertical	Pass
3	7017.250	52.22	-5.55	68.2	15.98	Peak	360.00	150	Vertical	Pass
3**	7017.250	43.05	-5.55	--	-43.05	AV	360.00	150	Vertical	N/A
4	10459.787	44.19	-5.15	68.2	24.01	Peak	360.00	150	Vertical	Pass
4**	10459.787	37.55	-5.15	--	-37.55	AV	360.00	150	Vertical	N/A
5	15689.737	46.39	-2.50	74.0	27.61	Peak	180.00	150	Vertical	Pass
5**	15689.737	40.86	-2.50	54.0	13.14	AV	180.00	150	Vertical	Pass
6	17476.313	52.87	1.51	68.2	15.33	Peak	36.00	150	Vertical	Pass
6**	17476.313	43.33	1.51	--	-43.33	AV	36.00	150	Vertical	N/A

IEEE 802.11n HT40-CH46 5230MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1727.700	41.71	-23.66	68.2	26.49	Peak	216.00	150	Horizontal	Pass
1**	1727.700	28.95	-23.66	--	-28.95	AV	216.00	150	Horizontal	N/A
2	5109.500	49.16	-8.97	74.0	24.84	Peak	216.00	150	Horizontal	Pass
2**	5109.500	39.73	-8.97	54.0	14.27	AV	216.00	150	Horizontal	Pass
3	7035.250	52.29	-5.49	68.2	15.91	Peak	288.00	150	Horizontal	Pass
3**	7035.250	42.86	-5.49	--	-42.86	AV	288.00	150	Horizontal	N/A
4	10459.787	44.84	-5.15	68.2	23.36	Peak	288.00	150	Horizontal	Pass
4**	10459.787	37.48	-5.15	--	-37.48	AV	288.00	150	Horizontal	N/A
5	15689.737	46.48	-2.50	74.0	27.52	Peak	144.00	150	Horizontal	Pass
5**	15689.737	40.42	-2.50	54.0	13.58	AV	144.00	150	Horizontal	Pass
6	17881.612	51.96	1.33	74.0	22.04	Peak	72.00	150	Horizontal	Pass
6**	17881.612	41.34	1.33	54.0	12.66	AV	72.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11n HT40 (U-NII-3)

IEEE 802.11n HT40-CH151 5755MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1724.400	42.76	-23.55	68.2	25.44	Peak	216.00	150	Vertical	Pass
1**	1724.400	28.27	-23.55	--	-28.27	AV	216.00	150	Vertical	N/A
2	5118.750	47.64	-10.60	74.0	26.36	Peak	252.00	150	Vertical	Pass
2**	5118.750	38.68	-10.60	54.0	15.32	AV	252.00	150	Vertical	Pass
3	5933.500	51.03	-8.65	68.2	17.17	Peak	288.00	150	Vertical	Pass
3**	5933.500	41.41	-8.65	--	-41.41	AV	288.00	150	Vertical	N/A
4	11509.775	42.58	-5.11	74.0	31.42	Peak	360.00	150	Vertical	Pass
4**	11509.775	36.38	-5.11	54.0	17.62	AV	360.00	150	Vertical	Pass
5	17264.738	45.74	-0.05	68.2	22.46	Peak	252.00	150	Vertical	Pass
5**	17264.738	39.93	-0.05	--	-39.93	AV	252.00	150	Vertical	N/A
6	17932.012	52.78	1.63	74.0	21.22	Peak	72.00	150	Vertical	Pass
6**	17932.012	42.42	1.63	54.0	11.58	AV	72.00	150	Vertical	Pass

IEEE 802.11n HT40-CH151 5755MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1725.700	42.57	-23.55	68.2	25.63	Peak	324.00	150	Horizontal	Pass
1**	1725.700	29.77	-23.55	--	-29.77	AV	324.00	150	Horizontal	N/A
2	5124.500	48.16	-10.57	74.0	25.84	Peak	72.00	150	Horizontal	Pass
2**	5124.500	38.96	-10.57	54.0	15.04	AV	72.00	150	Horizontal	Pass
3	7970.750	51.52	-7.13	68.2	16.68	Peak	144.00	150	Horizontal	Pass
3**	7970.750	41.72	-7.13	--	-41.72	AV	144.00	150	Horizontal	N/A
4	11509.775	42.67	-5.11	74.0	31.33	Peak	36.00	150	Horizontal	Pass
4**	11509.775	36.20	-5.11	54.0	17.80	AV	36.00	150	Horizontal	Pass
5	17264.738	47.11	-0.05	68.2	21.09	Peak	36.00	150	Horizontal	Pass
5**	17264.738	40.55	-0.05	--	-40.55	AV	36.00	150	Horizontal	N/A
6	17484.974	51.73	1.28	68.2	16.47	Peak	360.00	150	Horizontal	Pass
6**	17484.974	42.36	1.28	--	-42.36	AV	360.00	150	Horizontal	N/A

IEEE 802.11n HT40-CH159 5795MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1669.000	41.09	-23.80	74.0	32.91	Peak	360.00	150	Vertical	Pass
1**	1669.000	30.82	-23.80	54.0	23.18	AV	360.00	150	Vertical	Pass
2	4798.750	48.95	-11.85	74.0	25.05	Peak	324.00	150	Vertical	Pass
2**	4798.750	37.57	-11.85	54.0	16.43	AV	324.00	150	Vertical	Pass
3	7999.000	51.18	-6.61	68.2	17.02	Peak	216.00	150	Vertical	Pass
3**	7999.000	41.31	-6.61	--	-41.31	AV	216.00	150	Vertical	N/A
4	11589.812	44.00	-4.32	74.0	30.00	Peak	72.00	150	Vertical	Pass
4**	11589.812	38.04	-4.32	54.0	15.96	AV	72.00	150	Vertical	Pass
5	17384.962	48.01	0.03	68.2	20.19	Peak	180.00	150	Vertical	Pass
5**	17384.962	40.65	0.03	--	-40.65	AV	180.00	150	Vertical	N/A
6	17492.849	52.13	0.79	68.2	16.07	Peak	144.00	150	Vertical	Pass
6**	17492.849	42.47	0.79	--	-42.47	AV	144.00	150	Vertical	N/A

IEEE 802.11n HT40-CH159 5795MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1764.300	43.07	-23.37	68.2	25.13	Peak	108.00	150	Horizontal	Pass
1**	1764.300	28.84	-23.37	--	-28.84	AV	108.00	150	Horizontal	N/A
2	5115.250	47.90	-10.60	74.0	26.10	Peak	360.00	150	Horizontal	Pass
2**	5115.250	38.79	-10.60	54.0	15.21	AV	360.00	150	Horizontal	Pass
3	7960.000	51.04	-7.34	68.2	17.16	Peak	324.00	150	Horizontal	Pass
3**	7960.000	40.64	-7.34	--	-40.64	AV	324.00	150	Horizontal	N/A
4	11589.812	44.54	-4.32	74.0	29.46	Peak	288.00	150	Horizontal	Pass
4**	11589.812	37.92	-4.32	54.0	16.08	AV	288.00	150	Horizontal	Pass
5	17384.962	47.31	0.03	68.2	20.89	Peak	72.00	150	Horizontal	Pass
5**	17384.962	40.25	0.03	--	-40.25	AV	72.00	150	Horizontal	N/A
6	17476.837	52.06	1.51	68.2	16.14	Peak	36.00	150	Horizontal	Pass
6**	17476.837	43.68	1.51	--	-43.68	AV	36.00	150	Horizontal	N/A

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT20 (U-NII-1)

IEEE 802.11ac VHT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1659.300	41.82	-23.92	68.2	26.38	Peak	180.00	150	Vertical	Pass
1**	1659.300	28.88	-23.92	--	-28.88	AV	180.00	150	Vertical	N/A
2	5146.250	49.76	-8.51	74.0	24.24	Peak	108.00	150	Vertical	Pass
2**	5146.250	40.93	-8.51	54.0	13.07	AV	108.00	150	Vertical	Pass
3	7044.500	51.92	-5.86	68.2	16.28	Peak	144.00	150	Vertical	Pass
3**	7044.500	43.04	-5.86	--	-43.04	AV	144.00	150	Vertical	N/A
4	10358.850	45.88	-5.16	68.2	22.32	Peak	36.00	150	Vertical	Pass
4**	10358.850	37.02	-5.16	--	-37.02	AV	36.00	150	Vertical	N/A
5	15547.463	47.36	-2.90	74.0	26.64	Peak	288.00	150	Vertical	Pass
5**	15547.463	37.83	-2.90	54.0	16.17	AV	288.00	150	Vertical	Pass
6	17939.886	51.82	1.52	74.0	22.18	Peak	72.00	150	Vertical	Pass
6**	17939.886	42.60	1.52	54.0	11.40	AV	72.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH36 5180MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1823.800	45.78	-23.23	68.2	22.42	Peak	108.00	150	Horizontal	Pass
1**	1823.800	27.44	-23.23	--	-27.44	AV	108.00	150	Horizontal	N/A
2	5146.500	50.17	-8.51	74.0	23.83	Peak	252.00	150	Horizontal	Pass
2**	5146.500	41.59	-8.51	54.0	12.41	AV	252.00	150	Horizontal	Pass
3	6100.750	52.69	-7.64	68.2	15.51	Peak	324.00	150	Horizontal	Pass
3**	6100.750	41.17	-7.64	--	-41.17	AV	324.00	150	Horizontal	N/A
4	10367.400	46.08	-4.83	68.2	22.12	Peak	360.00	150	Horizontal	Pass
4**	10367.400	36.61	-4.83	--	-36.61	AV	360.00	150	Horizontal	N/A
5	15531.975	47.45	-3.04	74.0	26.55	Peak	108.00	150	Horizontal	Pass
5**	15531.975	37.31	-3.04	54.0	16.69	AV	108.00	150	Horizontal	Pass
6	17943.038	51.64	1.40	74.0	22.36	Peak	36.00	150	Horizontal	Pass
6**	17943.038	42.84	1.40	54.0	11.16	AV	36.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH42 5220MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1996.600	41.96	-21.90	68.2	26.24	Peak	252.00	150	Vertical	Pass
1**	1996.600	31.85	-21.90	--	-31.85	AV	252.00	150	Vertical	N/A
2	5138.000	49.83	-8.60	74.0	24.17	Peak	288.00	150	Vertical	Pass
2**	5138.000	40.57	-8.60	54.0	13.43	AV	288.00	150	Vertical	Pass
3	7040.500	52.54	-5.48	68.2	15.66	Peak	144.00	150	Vertical	Pass
3**	7040.500	42.24	-5.48	--	-42.24	AV	144.00	150	Vertical	N/A
4	10430.812	46.05	-4.68	68.2	22.15	Peak	360.00	150	Vertical	Pass
4**	10430.812	38.07	-4.68	--	-38.07	AV	360.00	150	Vertical	N/A
5	15658.762	47.88	-2.50	74.0	26.12	Peak	180.00	150	Vertical	Pass
5**	15658.762	39.57	-2.50	54.0	14.43	AV	180.00	150	Vertical	Pass
6	16767.563	52.45	0.22	68.2	15.75	Peak	36.00	150	Vertical	Pass
6**	16767.563	42.78	0.22	--	-42.78	AV	36.00	150	Vertical	N/A

IEEE 802.11ac VHT20-CH42 5220MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1825.400	41.82	-23.22	68.2	26.38	Peak	360.00	150	Horizontal	Pass
1**	1825.400	28.83	-23.22	--	-28.83	AV	360.00	150	Horizontal	N/A
2	5142.000	49.71	-8.56	74.0	24.29	Peak	360.00	150	Horizontal	Pass
2**	5142.000	41.17	-8.56	54.0	12.83	AV	360.00	150	Horizontal	Pass
3	7012.500	52.17	-5.53	68.2	16.03	Peak	288.00	150	Horizontal	Pass
3**	7012.500	43.52	-5.53	--	-43.52	AV	288.00	150	Horizontal	N/A
4	10430.099	46.44	-4.64	68.2	21.76	Peak	288.00	150	Horizontal	Pass
4**	10430.099	37.64	-4.64	--	-37.64	AV	288.00	150	Horizontal	N/A
5	15663.225	47.77	-2.51	74.0	26.23	Peak	360.00	150	Horizontal	Pass
5**	15663.225	38.44	-2.51	54.0	15.56	AV	360.00	150	Horizontal	Pass
6	17927.287	51.93	1.44	74.0	22.07	Peak	36.00	150	Horizontal	Pass
6**	17927.287	44.22	1.44	54.0	9.78	AV	36.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1777.700	42.27	-23.49	68.2	25.93	Peak	288.00	150	Horizontal	Pass
1**	1777.700	27.36	-23.49	--	-27.36	AV	288.00	150	Horizontal	N/A
2	5144.000	50.06	-8.54	74.0	23.94	Peak	72.00	150	Horizontal	Pass
2**	5144.000	40.88	-8.54	54.0	13.12	AV	72.00	150	Horizontal	Pass
3	7132.750	52.27	-6.52	68.2	15.93	Peak	288.00	150	Horizontal	Pass
3**	7132.750	41.49	-6.52	--	-41.49	AV	288.00	150	Horizontal	N/A
4	10470.000	44.56	-4.65	68.2	23.64	Peak	36.00	150	Horizontal	Pass
4**	10470.000	38.09	-4.65	--	-38.09	AV	36.00	150	Horizontal	N/A
5	15709.950	45.48	-2.44	74.0	28.52	Peak	180.00	150	Horizontal	Pass
5**	15709.950	39.72	-2.44	54.0	14.28	AV	180.00	150	Horizontal	Pass
6	16777.801	51.88	0.27	68.2	16.32	Peak	252.00	150	Horizontal	Pass
6**	16777.801	42.59	0.27	--	-42.59	AV	252.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH48 5240MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1679.300	41.44	-23.92	74.0	32.56	Peak	36.00	150	Vertical	Pass
1**	1679.300	27.48	-23.92	54.0	26.52	AV	36.00	150	Vertical	Pass
2	5131.500	49.12	-8.71	74.0	24.88	Peak	252.00	150	Vertical	Pass
2**	5131.500	40.39	-8.71	54.0	13.61	AV	252.00	150	Vertical	Pass
3	7057.000	52.51	-6.25	68.2	15.69	Peak	360.00	150	Vertical	Pass
3**	7057.000	42.81	-6.25	--	-42.81	AV	360.00	150	Vertical	N/A
4	10470.000	45.57	-4.65	68.2	22.63	Peak	72.00	150	Vertical	Pass
4**	10470.000	37.38	-4.65	--	-37.38	AV	72.00	150	Vertical	N/A
5	15709.950	47.68	-2.44	74.0	26.32	Peak	36.00	150	Vertical	Pass
5**	15709.950	39.19	-2.44	54.0	14.81	AV	36.00	150	Vertical	Pass
6	17949.338	51.93	1.14	74.0	22.07	Peak	144.00	150	Vertical	Pass
6**	17949.338	42.51	1.14	54.0	11.49	AV	144.00	150	Vertical	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT20 (U-NII-3)

IEEE 802.11ac VHT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1747.300	42.12	-23.45	68.2	26.08	Peak	324.00	150	Horizontal	Pass
1**	1747.300	28.59	-23.45	--	-28.59	AV	324.00	150	Horizontal	N/A
2	4815.250	47.73	-11.47	74.0	26.27	Peak	216.00	150	Horizontal	Pass
2**	4815.250	37.88	-11.47	54.0	16.12	AV	216.00	150	Horizontal	Pass
3	7037.500	50.88	-6.76	68.2	17.32	Peak	108.00	150	Horizontal	Pass
3**	7037.500	41.95	-6.76	--	-41.95	AV	108.00	150	Horizontal	N/A
4	11489.825	42.83	-5.05	74.0	31.17	Peak	72.00	150	Horizontal	Pass
4**	11489.825	36.20	-5.05	54.0	17.80	AV	72.00	150	Horizontal	Pass
5	17234.813	48.72	0.73	68.2	19.48	Peak	324.00	150	Horizontal	Pass
5**	17234.813	40.96	0.73	--	-40.96	AV	324.00	150	Horizontal	N/A
6	17494.161	51.69	0.65	68.2	16.51	Peak	360.00	150	Horizontal	Pass
6**	17494.161	43.52	0.65	--	-43.52	AV	360.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH149 5745MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1780.600	43.17	-23.30	68.2	25.03	Peak	36.00	150	Vertical	Pass
1**	1780.600	29.23	-23.30	--	-29.23	AV	36.00	150	Vertical	N/A
2	5137.000	47.73	-10.45	74.0	26.27	Peak	324.00	150	Vertical	Pass
2**	5137.000	38.65	-10.45	54.0	15.35	AV	324.00	150	Vertical	Pass
3	7625.750	51.27	-7.70	74.0	22.73	Peak	216.00	150	Vertical	Pass
3**	7625.750	41.18	-7.70	54.0	12.82	AV	216.00	150	Vertical	Pass
4	11489.825	43.45	-5.05	74.0	30.55	Peak	360.00	150	Vertical	Pass
4**	11489.825	36.68	-5.05	54.0	17.32	AV	360.00	150	Vertical	Pass
5	17234.813	48.46	0.73	68.2	19.74	Peak	180.00	150	Vertical	Pass
5**	17234.813	41.54	0.73	--	-41.54	AV	180.00	150	Vertical	N/A
6	17484.188	52.24	1.31	68.2	15.96	Peak	360.00	150	Vertical	Pass
6**	17484.188	42.30	1.31	--	-42.30	AV	360.00	150	Vertical	N/A

IEEE 802.11ac VHT20-CH157 5785MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1826.300	41.08	-22.96	68.2	27.12	Peak	108.00	150	Horizontal	Pass
1**	1826.300	30.30	-22.96	--	-30.30	AV	108.00	150	Horizontal	N/A
2	4861.250	48.29	-11.44	74.0	25.71	Peak	72.00	150	Horizontal	Pass
2**	4861.250	38.71	-11.44	54.0	15.29	AV	72.00	150	Horizontal	Pass
3	7993.000	51.48	-6.62	68.2	16.72	Peak	216.00	150	Horizontal	Pass
3**	7993.000	42.41	-6.62	--	-42.41	AV	216.00	150	Horizontal	N/A
4	11569.863	45.39	-4.51	74.0	28.61	Peak	360.00	150	Horizontal	Pass
4**	11569.863	37.97	-4.51	54.0	16.03	AV	360.00	150	Horizontal	Pass
5	17354.775	48.16	0.74	68.2	20.04	Peak	324.00	150	Horizontal	Pass
5**	17354.775	41.31	0.74	--	-41.31	AV	324.00	150	Horizontal	N/A
6	17924.661	52.18	1.23	74.0	21.82	Peak	288.00	150	Horizontal	Pass
6**	17924.661	43.64	1.23	54.0	10.36	AV	288.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH157 5785MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1997.000	41.01	-21.82	68.2	27.19	Peak	360.00	150	Vertical	Pass
1**	1997.000	31.78	-21.82	--	-31.78	AV	360.00	150	Vertical	N/A
2	4750.500	47.86	-11.22	74.0	26.14	Peak	180.00	150	Vertical	Pass
2**	4750.500	38.10	-11.22	54.0	15.90	AV	180.00	150	Vertical	Pass
3	7035.750	51.23	-6.80	68.2	16.97	Peak	72.00	150	Vertical	Pass
3**	7035.750	42.42	-6.80	--	-42.42	AV	72.00	150	Vertical	N/A
4	11569.863	46.06	-4.51	74.0	27.94	Peak	36.00	150	Vertical	Pass
4**	11569.863	37.96	-4.51	54.0	16.04	AV	36.00	150	Vertical	Pass
5	17354.775	48.74	0.74	68.2	19.46	Peak	180.00	150	Vertical	Pass
5**	17354.775	41.16	0.74	--	-41.16	AV	180.00	150	Vertical	N/A
6	17930.699	51.55	1.64	74.0	22.45	Peak	288.00	150	Vertical	Pass
6**	17930.699	44.09	1.64	54.0	9.91	AV	288.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1711.800	40.65	-23.60	68.2	27.55	Peak	144.00	150	Vertical	Pass
1**	1711.800	27.08	-23.60	--	-27.08	AV	144.00	150	Vertical	N/A
2	5047.250	48.92	-10.79	74.0	25.08	Peak	288.00	150	Vertical	Pass
2**	5047.250	38.12	-10.79	54.0	15.88	AV	288.00	150	Vertical	Pass
3	7014.750	51.37	-6.93	68.2	16.83	Peak	108.00	150	Vertical	Pass
3**	7014.750	41.89	-6.93	--	-41.89	AV	108.00	150	Vertical	N/A
4	11649.901	44.36	-3.75	74.0	29.64	Peak	36.00	150	Vertical	Pass
4**	11649.901	37.83	-3.75	54.0	16.17	AV	36.00	150	Vertical	Pass
5	17474.738	50.58	1.53	68.2	17.62	Peak	324.00	150	Vertical	Pass
5**	17474.738	42.86	1.53	--	-42.86	AV	324.00	150	Vertical	N/A
6	17933.324	51.53	1.62	74.0	22.47	Peak	36.00	150	Vertical	Pass
6**	17933.324	42.93	1.62	54.0	11.07	AV	36.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH165 5825MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1766.400	43.09	-23.36	68.2	25.11	Peak	252.00	150	Horizontal	Pass
1**	1766.400	27.82	-23.36	--	-27.82	AV	252.00	150	Horizontal	N/A
2	5115.500	47.58	-10.60	74.0	26.42	Peak	36.00	150	Horizontal	Pass
2**	5115.500	38.75	-10.60	54.0	15.25	AV	36.00	150	Horizontal	Pass
3	7988.500	50.85	-6.65	68.2	17.35	Peak	108.00	150	Horizontal	Pass
3**	7988.500	41.68	-6.65	--	-41.68	AV	108.00	150	Horizontal	N/A
4	11649.901	45.41	-3.75	74.0	28.59	Peak	324.00	150	Horizontal	Pass
4**	11649.901	37.59	-3.75	54.0	16.41	AV	324.00	150	Horizontal	Pass
5	17474.738	48.77	1.53	68.2	19.43	Peak	324.00	150	Horizontal	Pass
5**	17474.738	43.63	1.53	--	-43.63	AV	324.00	150	Horizontal	N/A
6	17874.000	51.77	1.24	74.0	22.23	Peak	360.00	150	Horizontal	Pass
6**	17874.000	41.94	1.24	54.0	12.06	AV	360.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT40(U-NII-1)

IEEE 802.11ac VHT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2334.800	41.19	-19.70	74.0	32.81	Peak	108.00	150	Vertical	Pass
1**	2334.800	31.33	-19.70	54.0	22.67	AV	108.00	150	Vertical	Pass
2	5141.500	49.59	-8.56	74.0	24.41	Peak	36.00	150	Vertical	Pass
2**	5141.500	40.72	-8.56	54.0	13.28	AV	36.00	150	Vertical	Pass
3	7017.250	52.21	-5.55	68.2	15.99	Peak	180.00	150	Vertical	Pass
3**	7017.250	43.18	-5.55	--	-43.18	AV	180.00	150	Vertical	N/A
4	10364.787	45.40	-4.94	68.2	22.80	Peak	36.00	150	Vertical	Pass
4**	10364.787	36.79	-4.94	--	-36.79	AV	36.00	150	Vertical	N/A
5	15538.275	47.28	-3.05	74.0	26.72	Peak	72.00	150	Vertical	Pass
5**	15538.275	37.88	-3.05	54.0	16.12	AV	72.00	150	Vertical	Pass
6	17935.161	52.01	1.60	74.0	21.99	Peak	108.00	150	Vertical	Pass
6**	17935.161	43.71	1.60	54.0	10.29	AV	108.00	150	Vertical	Pass

IEEE 802.11ac VHT40-CH38 5190MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2238.200	41.32	-19.74	74.0	32.68	Peak	252.00	150	Horizontal	Pass
1**	2238.200	31.06	-19.74	54.0	22.94	AV	252.00	150	Horizontal	Pass
2	4875.750	49.40	-10.02	74.0	24.60	Peak	324.00	150	Horizontal	Pass
2**	4875.750	39.27	-10.02	54.0	14.73	AV	324.00	150	Horizontal	Pass
3	7290.750	52.16	-6.53	74.0	21.84	Peak	360.00	150	Horizontal	Pass
3**	7290.750	42.34	-6.53	54.0	11.66	AV	360.00	150	Horizontal	Pass
4	10379.987	44.73	-4.95	68.2	23.47	Peak	360.00	150	Horizontal	Pass
4**	10379.987	37.02	-4.95	--	-37.02	AV	360.00	150	Horizontal	N/A
5	15569.776	44.80	-2.83	74.0	29.20	Peak	144.00	150	Horizontal	Pass
5**	15569.776	38.37	-2.83	54.0	15.63	AV	144.00	150	Horizontal	Pass
6	17945.137	52.10	1.31	74.0	21.90	Peak	360.00	150	Horizontal	Pass
6**	17945.137	42.25	1.31	54.0	11.75	AV	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1690.400	42.26	-23.82	74.0	31.74	Peak	360.00	150	Vertical	Pass
1**	1690.400	27.53	-23.82	54.0	26.47	AV	360.00	150	Vertical	Pass
2	5143.750	49.30	-8.54	74.0	24.70	Peak	180.00	150	Vertical	Pass
2**	5143.750	40.90	-8.54	54.0	13.10	AV	180.00	150	Vertical	Pass
3	7315.250	52.68	-6.59	74.0	21.32	Peak	360.00	150	Vertical	Pass
3**	7315.250	42.65	-6.59	54.0	11.35	AV	360.00	150	Vertical	Pass
4	10459.787	43.87	-5.15	68.2	24.33	Peak	252.00	150	Vertical	Pass
4**	10459.787	38.93	-5.15	--	-38.93	AV	252.00	150	Vertical	N/A
5	15689.737	46.69	-2.50	74.0	27.31	Peak	360.00	150	Vertical	Pass
5**	15689.737	40.92	-2.50	54.0	13.08	AV	360.00	150	Vertical	Pass
6	17362.651	52.27	0.91	68.2	15.93	Peak	216.00	150	Vertical	Pass
6**	17362.651	42.01	0.91	--	-42.01	AV	216.00	150	Vertical	N/A

IEEE 802.11ac VHT40-CH46 5230MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1825.300	41.47	-23.22	68.2	26.73	Peak	324.00	150	Horizontal	Pass
1**	1825.300	30.76	-23.22	--	-30.76	AV	324.00	150	Horizontal	N/A
2	5139.500	49.99	-8.58	74.0	24.01	Peak	72.00	150	Horizontal	Pass
2**	5139.500	40.93	-8.58	54.0	13.07	AV	72.00	150	Horizontal	Pass
3	7022.000	52.41	-5.56	68.2	15.79	Peak	144.00	150	Horizontal	Pass
3**	7022.000	43.15	-5.56	--	-43.15	AV	144.00	150	Horizontal	N/A
4	10459.787	43.26	-5.15	68.2	24.94	Peak	324.00	150	Horizontal	Pass
4**	10459.787	38.25	-5.15	--	-38.25	AV	324.00	150	Horizontal	N/A
5	15689.737	46.08	-2.50	74.0	27.92	Peak	360.00	150	Horizontal	Pass
5**	15689.737	40.33	-2.50	54.0	13.67	AV	360.00	150	Horizontal	Pass
6	16763.887	51.78	0.09	68.2	16.42	Peak	360.00	150	Horizontal	Pass
6**	16763.887	41.92	0.09	--	-41.92	AV	360.00	150	Horizontal	N/A

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT40 (U-NII-3)

IEEE 802.11ac HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1998.900	42.45	-21.76	68.2	25.75	Peak	72.00	153	Vertical	Pass
1**	1998.900	29.56	-21.76	--	-29.56	AV	72.00	153	Vertical	N/A
2	5124.750	47.96	-10.57	74.0	26.04	Peak	252.00	153	Vertical	Pass
2**	5124.750	38.66	-10.57	54.0	15.34	AV	252.00	153	Vertical	Pass
3	7999.250	51.36	-6.61	68.2	16.84	Peak	180.00	153	Vertical	Pass
3**	7999.250	41.73	-6.61	--	-41.73	AV	180.00	153	Vertical	N/A
4	11509.775	43.08	-5.11	74.0	30.92	Peak	252.00	153	Vertical	Pass
4**	11509.775	36.39	-5.11	54.0	17.61	AV	252.00	153	Vertical	Pass
5	17264.738	46.79	-0.05	68.2	21.41	Peak	216.00	153	Vertical	Pass
5**	17264.738	41.09	-0.05	--	-41.09	AV	216.00	153	Vertical	N/A
6	17943.824	52.13	1.36	74.0	21.87	Peak	108.00	153	Vertical	Pass
6**	17943.824	43.63	1.36	54.0	10.37	AV	108.00	153	Vertical	Pass

IEEE 802.11ac HT40-CH151 5755MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1791.500	41.81	-23.30	68.2	26.39	Peak	288.00	150	Horizontal	Pass
1**	1791.500	29.65	-23.30	--	-29.65	AV	288.00	150	Horizontal	N/A
2	5146.500	48.27	-10.36	74.0	25.73	Peak	180.00	150	Horizontal	Pass
2**	5146.500	39.04	-10.36	54.0	14.96	AV	180.00	150	Horizontal	Pass
3	7032.000	51.00	-6.90	68.2	17.20	Peak	288.00	150	Horizontal	Pass
3**	7032.000	41.44	-6.90	--	-41.44	AV	288.00	150	Horizontal	N/A
4	11509.775	42.61	-5.11	74.0	31.39	Peak	72.00	150	Horizontal	Pass
4**	11509.775	36.12	-5.11	54.0	17.88	AV	72.00	150	Horizontal	Pass
5	17264.738	45.75	-0.05	68.2	22.45	Peak	252.00	150	Horizontal	Pass
5**	17264.738	40.12	-0.05	--	-40.12	AV	252.00	150	Horizontal	N/A
6	17939.886	52.98	1.52	74.0	21.02	Peak	36.00	150	Horizontal	Pass
6**	17939.886	43.39	1.52	54.0	10.61	AV	36.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH159 5795MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1684.300	42.98	-23.70	74.0	31.02	Peak	108.00	150	Vertical	Pass
1**	1684.300	28.02	-23.70	54.0	25.98	AV	108.00	150	Vertical	Pass
2	4280.750	47.84	-12.64	74.0	26.16	Peak	360.00	150	Vertical	Pass
2**	4280.750	37.85	-12.64	54.0	16.15	AV	360.00	150	Vertical	Pass
3	7987.750	51.30	-6.66	68.2	16.90	Peak	252.00	150	Vertical	Pass
3**	7987.750	42.12	-6.66	--	-42.12	AV	252.00	150	Vertical	N/A
4	11589.812	44.61	-4.32	74.0	29.39	Peak	360.00	150	Vertical	Pass
4**	11589.812	37.70	-4.32	54.0	16.30	AV	360.00	150	Vertical	Pass
5	17384.962	47.75	0.03	68.2	20.45	Peak	144.00	150	Vertical	Pass
5**	17384.962	41.24	0.03	--	-41.24	AV	144.00	150	Vertical	N/A
6	17486.287	51.64	1.23	68.2	16.56	Peak	216.00	150	Vertical	Pass
6**	17486.287	42.78	1.23	--	-42.78	AV	216.00	150	Vertical	N/A

IEEE 802.11ac VHT40-CH159 5795MHz

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1767.600	42.85	-23.35	68.2	25.35	Peak	324.00	150	Horizontal	Pass
1**	1767.600	27.80	-23.35	--	-27.80	AV	324.00	150	Horizontal	N/A
2	4772.000	48.06	-11.44	74.0	25.94	Peak	180.00	150	Horizontal	Pass
2**	4772.000	37.76	-11.44	54.0	16.24	AV	180.00	150	Horizontal	Pass
3	6034.000	51.13	-8.66	68.2	17.07	Peak	360.00	150	Horizontal	Pass
3**	6034.000	42.23	-8.66	--	-42.23	AV	360.00	150	Horizontal	N/A
4	11589.812	45.48	-4.32	74.0	28.52	Peak	288.00	150	Horizontal	Pass
4**	11589.812	37.93	-4.32	54.0	16.07	AV	288.00	150	Horizontal	Pass
5	17384.962	46.94	0.03	68.2	21.26	Peak	180.00	150	Horizontal	Pass
5**	17384.962	41.11	0.03	--	-41.11	AV	180.00	150	Horizontal	N/A
6	17487.864	52.14	1.16	68.2	16.06	Peak	108.00	150	Horizontal	Pass
6**	17487.864	44.33	1.16	--	-44.33	AV	108.00	150	Horizontal	N/A

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT80 (U-NII-1)

IEEE 802.11ac VHT80-CH42 5210MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2304.000	41.39	-19.52	68.2	26.81	Peak	108.00	150	Vertical	Pass
1**	2304.000	30.97	-19.52	--	-30.97	AV	108.00	150	Vertical	N/A
2	5113.750	49.90	-8.93	74.0	24.10	Peak	360.00	150	Vertical	Pass
2**	5113.750	40.52	-8.93	54.0	13.48	AV	360.00	150	Vertical	Pass
3	7087.500	52.43	-6.24	68.2	15.77	Peak	36.00	150	Vertical	Pass
3**	7087.500	42.71	-6.24	--	-42.71	AV	36.00	150	Vertical	N/A
4	10419.888	43.47	-4.60	68.2	24.73	Peak	252.00	150	Vertical	Pass
4**	10419.888	36.49	-4.60	--	-36.49	AV	252.00	150	Vertical	N/A
5	15629.887	45.84	-2.62	74.0	28.16	Peak	216.00	150	Vertical	Pass
5**	15629.887	39.04	-2.62	54.0	14.96	AV	216.00	150	Vertical	Pass
6	17930.699	52.23	1.64	74.0	21.77	Peak	252.00	150	Vertical	Pass
6**	17930.699	42.73	1.64	54.0	11.27	AV	252.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH42 5210MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1726.000	42.52	-23.67	68.2	25.68	Peak	180.00	150	Horizontal	Pass
1**	1726.000	27.85	-23.67	--	-27.85	AV	180.00	150	Horizontal	N/A
2	5136.250	50.05	-8.63	74.0	23.95	Peak	324.00	150	Horizontal	Pass
2**	5136.250	41.06	-8.63	54.0	12.94	AV	324.00	150	Horizontal	Pass
3	7987.500	52.05	-6.28	68.2	16.15	Peak	288.00	150	Horizontal	Pass
3**	7987.500	42.85	-6.28	--	-42.85	AV	288.00	150	Horizontal	N/A
4	10419.888	44.10	-4.60	68.2	24.10	Peak	144.00	150	Horizontal	Pass
4**	10419.888	37.97	-4.60	--	-37.97	AV	144.00	150	Horizontal	N/A
5	15629.887	45.23	-2.62	74.0	28.77	Peak	360.00	150	Horizontal	Pass
5**	15629.887	38.14	-2.62	54.0	15.86	AV	360.00	150	Horizontal	Pass
6	17475.525	52.01	1.52	68.2	16.19	Peak	360.00	150	Horizontal	Pass
6**	17475.525	43.89	1.52	--	-43.89	AV	360.00	150	Horizontal	N/A

Radiated Emissions Above 1GHz - IEEE 802.11ac VHT80 (U-NII-3)

IEEE 802.11ac VHT80-CH155 5775MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1721.300	41.03	-23.55	74.0	32.97	Peak	360.00	150	Horizontal	Pass
1**	1721.300	27.55	-23.55	54.0	26.45	AV	360.00	150	Horizontal	Pass
2	4840.500	48.94	-11.63	74.0	25.06	Peak	180.00	150	Horizontal	Pass
2**	4840.500	38.37	-11.63	54.0	15.63	AV	180.00	150	Horizontal	Pass
3	7079.750	50.96	-7.22	68.2	17.24	Peak	144.00	150	Horizontal	Pass
3**	7079.750	41.38	-7.22	--	-41.38	AV	144.00	150	Horizontal	N/A
4	11549.912	44.19	-4.41	74.0	29.81	Peak	180.00	150	Horizontal	Pass
4**	11549.912	37.79	-4.41	54.0	16.21	AV	180.00	150	Horizontal	Pass
5	17324.849	47.18	-0.06	68.2	21.02	Peak	36.00	150	Horizontal	Pass
5**	17324.849	39.95	-0.06	--	-39.95	AV	36.00	150	Horizontal	N/A
6	17999.999	48.31	0.93	74.0	25.69	Peak	360.00	150	Horizontal	Pass
6**	17999.999	40.75	0.93	54.0	13.25	AV	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT80-CH42 5210MHz										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2252.000	40.93	-19.53	74.0	33.07	Peak	108.00	150	Vertical	Pass
1**	2252.000	31.40	-19.53	54.0	22.60	AV	108.00	150	Vertical	Pass
2	4870.500	48.06	-11.14	74.0	25.94	Peak	360.00	150	Vertical	Pass
2**	4870.500	39.30	-11.14	54.0	14.70	AV	360.00	150	Vertical	Pass
3	7000.000	51.56	-7.02	68.2	16.64	Peak	288.00	150	Vertical	Pass
3**	7000.000	41.46	-7.02	--	-41.46	AV	288.00	150	Vertical	N/A
4	11549.912	45.09	-4.41	74.0	28.91	Peak	144.00	150	Vertical	Pass
4**	11549.912	38.66	-4.41	54.0	15.34	AV	144.00	150	Vertical	Pass
5	17324.849	47.86	-0.06	68.2	20.34	Peak	180.00	150	Vertical	Pass
5**	17324.849	40.59	-0.06	--	-40.59	AV	180.00	150	Vertical	N/A
6	17999.999	47.25	0.93	74.0	26.75	Peak	72.00	150	Vertical	Pass
6**	17999.999	40.45	0.93	54.0	13.55	AV	72.00	150	Vertical	Pass

Note:

1. Results (dBuV/m) = Raw Value (dBuV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
3. Margin value = Limit - Results.

18000MHz-40000MHz: Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge - IEEE 802.11a (U-NII-1)

IEEE 802.11a-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5127.550	49.74	-10.55	74.0	24.26	Peak	216.00	100	Horizontal	Pass
1**	5127.550	37.65	-10.55	54.0	16.35	AV	216.00	100	Horizontal	Pass
2	5149.950	47.52	-10.33	74.0	26.48	Peak	144.00	100	Horizontal	Pass
2**	5149.950	37.18	-10.33	54.0	16.82	AV	144.00	100	Horizontal	Pass
3	5183.550	75.86	-10.41	--	--	Peak	36.00	100	Horizontal	N/A
3**	5183.550	67.38	-10.41	--	--	AV	36.00	100	Horizontal	N/A

IEEE 802.11a-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5106.200	48.82	-10.62	74.0	25.18	Peak	360.00	150	Vertical	Pass
1**	5106.200	37.59	-10.62	54.0	16.41	AV	360.00	150	Vertical	Pass
2	5149.950	46.82	-10.33	74.0	27.18	Peak	252.00	150	Vertical	Pass
2**	5149.950	37.84	-10.33	54.0	16.16	AV	252.00	150	Vertical	Pass
3	5187.400	64.07	-10.40	--	--	Peak	288.00	150	Vertical	N/A
3**	5187.400	56.25	-10.40	--	--	AV	288.00	150	Vertical	N/A

IEEE 802.11a-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5223.450	76.31	-10.45	--	--	Peak	360.00	100	Horizontal	N/A
1**	5223.450	68.41	-10.45	--	--	AV	360.00	100	Horizontal	N/A
2	5349.875	46.88	-10.56	74.0	27.12	Peak	144.00	100	Horizontal	Pass
2**	5349.875	37.19	-10.56	54.0	16.81	AV	144.00	100	Horizontal	Pass
3	5798.700	50.31	-9.12	74.0	23.69	Peak	108.00	100	Horizontal	Pass
3**	5798.700	39.25	-9.12	54.0	14.75	AV	108.00	100	Horizontal	Pass

IEEE 802.11a-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5223.775	71.87	-10.46	--	--	Peak	108.00	150	Vertical	N/A
1**	5223.775	63.32	-10.46	--	--	AV	108.00	150	Vertical	N/A
2	5349.875	46.16	-10.56	74.0	27.84	Peak	36.00	150	Vertical	Pass
2**	5349.875	36.88	-10.56	54.0	17.12	AV	36.00	150	Vertical	Pass
3	5787.325	50.85	-9.06	74.0	23.15	Peak	360.00	150	Vertical	Pass
3**	5787.325	39.59	-9.06	54.0	14.41	AV	360.00	150	Vertical	Pass

Radiated Band Edge - IEEE 802.11a (U-NII-3)

IEEE 802.11a-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5612.000	49.89	-9.11	68.2	18.31	Peak	272.90	150	Vertical	Pass
2	5687.400	50.16	-9.39	95.9	45.74	Peak	309.90	150	Vertical	Pass
3	5717.700	49.04	-9.44	110.2	61.16	Peak	54.30	150	Vertical	Pass
4	5720.000	49.49	-9.42	110.8	61.31	Peak	155.50	150	Vertical	Pass
5	5724.900	48.06	-9.40	122.0	73.94	Peak	358.20	150	Vertical	Pass
6	5748.500	70.39	-9.54	--	--	Peak	297.60	150	Vertical	N/A

IEEE 802.11a-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5637.200	50.11	-9.17	68.2	18.09	Peak	266.50	150	Horizontal	Pass
2	5681.800	49.73	-9.32	91.8	42.07	Peak	351.40	150	Horizontal	Pass
3	5719.700	49.06	-9.42	110.7	61.64	Peak	346.00	150	Horizontal	Pass
4	5723.200	50.31	-9.41	118.1	67.79	Peak	347.10	150	Horizontal	Pass
5	5724.900	49.14	-9.40	122.0	72.86	Peak	50.30	150	Horizontal	Pass
6	5741.300	79.17	-9.53	--	--	Peak	33.80	150	Horizontal	N/A

IEEE 802.11a-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5832.400	67.17	-8.94	--	--	Peak	72.00	150	Horizontal	N/A
2	5850.000	47.81	-9.04	122.2	74.39	Peak	36.00	150	Horizontal	Pass
3	5851.900	50.16	-9.06	117.9	67.74	Peak	252.00	150	Horizontal	Pass
4	5862.600	50.35	-9.18	108.7	58.35	Peak	288.00	150	Horizontal	Pass
5	5912.800	50.06	-9.01	77.2	27.14	Peak	72.00	150	Horizontal	Pass
6	5936.800	51.46	-8.60	68.2	16.74	Peak	144.00	150	Horizontal	Pass

IEEE 802.11a-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5829.000	63.80	-8.92	--	--	Peak	252.00	150	Vertical	N/A
2	5850.000	48.24	-9.04	122.2	73.96	Peak	144.00	150	Vertical	Pass
3	5852.300	49.30	-9.07	117.0	67.70	Peak	360.00	150	Vertical	Pass
4	5856.800	49.97	-9.11	110.3	60.33	Peak	108.00	150	Vertical	Pass
5	5916.800	50.15	-8.95	74.2	24.05	Peak	252.00	150	Vertical	Pass
6	5980.000	50.77	-8.59	68.2	17.43	Peak	324.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT20 (U-NII-1)

IEEE 802.11n HT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5011.700	48.70	-11.13	74.0	25.30	Peak	144.00	150	Horizontal	Pass
1**	5011.700	36.95	-11.13	54.0	17.05	AV	144.00	150	Horizontal	Pass
2	5149.950	47.09	-10.33	74.0	26.91	Peak	144.00	150	Horizontal	Pass
2**	5149.950	37.32	-10.33	54.0	16.68	AV	144.00	150	Horizontal	Pass
3	5186.350	73.28	-10.40	--	--	Peak	324.00	150	Horizontal	N/A
3**	5186.350	65.27	-10.40	--	--	AV	324.00	150	Horizontal	N/A

IEEE 802.11n HT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5106.200	48.32	-10.62	74.0	25.68	Peak	216.00	150	Vertical	Pass
1**	5106.200	37.08	-10.62	54.0	16.92	AV	216.00	150	Vertical	Pass
2	5149.950	47.34	-10.33	74.0	26.66	Peak	36.00	150	Vertical	Pass
2**	5149.950	37.17	-10.33	54.0	16.83	AV	36.00	150	Vertical	Pass
3	5187.400	74.18	-10.40	--	--	Peak	360.00	150	Vertical	N/A
3**	5187.400	65.71	-10.40	--	--	AV	360.00	150	Vertical	N/A

IEEE 802.11n HT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5247.500	75.43	-10.65	--	--	Peak	252.00	150	Vertical	N/A
1**	5247.500	67.16	-10.65	--	--	AV	252.00	150	Vertical	N/A
2	5349.875	46.23	-10.56	74.0	27.77	Peak	360.00	150	Vertical	Pass
2**	5349.875	36.88	-10.56	54.0	17.12	AV	360.00	150	Vertical	Pass
3	5764.575	50.50	-9.25	74.0	23.50	Peak	288.00	150	Vertical	Pass
3**	5764.575	38.49	-9.25	54.0	15.51	AV	288.00	150	Vertical	Pass

IEEE 802.11n HT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5237.425	75.14	-10.58	--	140.86	Peak	216.00	150	Horizontal	N/A
1**	5237.425	66.73	-10.58	--	-66.73	AV	216.00	150	Horizontal	N/A
2	5349.875	45.74	-10.56	74.0	28.26	Peak	216.00	150	Horizontal	Pass
2**	5349.875	36.85	-10.56	54.0	17.15	AV	216.00	150	Horizontal	Pass
3	5785.375	49.76	-9.04	74.0	24.24	Peak	72.00	150	Horizontal	Pass
3**	5785.375	39.39	-9.04	54.0	14.61	AV	72.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11n HT20 (U-NII-3)

IEEE 802.11n HT20-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5609.400	49.79	-9.09	68.2	18.41	Peak	252.00	150	Vertical	Pass
2	5681.100	49.21	-9.31	91.3	42.09	Peak	288.00	150	Vertical	Pass
3	5706.700	49.17	-9.52	107.1	57.93	Peak	36.00	150	Vertical	Pass
4	5721.300	49.01	-9.42	113.8	64.79	Peak	360.00	150	Vertical	Pass
5	5724.900	47.92	-9.40	122.0	74.08	Peak	324.00	150	Vertical	Pass
6	5738.100	64.70	-9.50	--	--	Peak	216.00	150	Vertical	N/A

IEEE 802.11n HT20-CH149 5745MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5632.500	50.09	-9.17	68.2	18.11	Peak	180.00	150	Horizontal	Pass
2	5666.000	49.63	-9.25	80.1	30.47	Peak	0.00	150	Horizontal	Pass
3	5715.700	49.80	-9.46	109.6	59.80	Peak	324.00	150	Horizontal	Pass
4	5721.600	48.80	-9.41	114.4	65.60	Peak	144.00	150	Horizontal	Pass
5	5724.900	47.47	-9.40	122.0	74.53	Peak	36.00	150	Horizontal	Pass
6	5752.200	60.54	-9.51	--	--	Peak	324.00	150	Horizontal	N/A

IEEE 802.11n HT20-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5827.500	62.30	-8.93	--	--	Peak	108.00	150	Horizontal	N/A
2	5850.000	48.80	-9.04	122.0	63.2	Peak	216.00	150	Horizontal	Pass
3	5854.300	50.40	-9.09	112.4	62.00	Peak	144.00	150	Horizontal	Pass
4	5865.300	50.27	-9.21	107.9	57.63	Peak	360.00	150	Horizontal	Pass
5	5908.200	50.22	-9.09	80.6	30.38	Peak	180.00	150	Horizontal	Pass
6	5975.900	50.30	-8.58	68.2	17.90	Peak	180.00	150	Horizontal	Pass

IEEE 802.11n HT20-CH165 5825MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5818.400	55.00	-8.98	--	--	Peak	72.00	150	Vertical	N/A
2	5850.000	48.39	-9.04	122.2	73.81	Peak	72.00	150	Vertical	Pass
3	5854.500	49.84	-9.09	111.9	62.06	Peak	360.00	150	Vertical	Pass
4	5857.800	50.52	-9.13	110.0	59.48	Peak	216.00	150	Vertical	Pass
5	5917.300	50.18	-8.94	73.9	23.72	Peak	360.00	150	Vertical	Pass
6	5977.800	50.59	-8.58	68.2	17.61	Peak	288.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-1)

IEEE 802.11n HT40-CH38 5190MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5128.950	48.68	-10.55	74.0	25.32	Peak	324.00	150	Horizontal	Pass
1**	5128.950	37.33	-10.55	54.0	16.67	AV	324.00	150	Horizontal	Pass
2	5149.950	46.35	-10.33	74.0	27.65	Peak	108.00	150	Horizontal	Pass
2**	5149.950	37.30	-10.33	54.0	16.70	AV	108.00	150	Horizontal	Pass
3	5175.500	58.75	-10.43	--	--	Peak	72.00	150	Horizontal	N/A
3**	5175.500	49.76	-10.43	--	--	AV	72.00	150	Horizontal	N/A

IEEE 802.11n HT40-CH38 5190MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5020.800	48.58	-11.06	74.0	25.42	Peak	252.00	150	Vertical	Pass
1**	5020.800	36.95	-11.06	54.0	17.05	AV	252.00	150	Vertical	Pass
2	5149.950	46.47	-10.33	74.0	27.53	Peak	360.00	150	Vertical	Pass
2**	5149.950	37.35	-10.33	54.0	16.65	AV	360.00	150	Vertical	Pass
3	5198.250	67.66	-10.39	--	--	Peak	72.00	150	Vertical	--
3**	5198.250	59.52	-10.39	--	--	AV	72.00	150	Vertical	--

IEEE 802.11n HT40-CH46 5230MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5215.000	59.13	-10.34	--	--	Peak	180.00	150	Horizontal	N/A
1**	5215.000	50.06	-10.34	--	--	AV	180.00	150	Horizontal	N/A
2	5349.875	45.61	-10.56	74.0	314.39	Peak	360.00	150	Horizontal	Pass
2**	5349.875	36.91	-10.56	54.0	-36.91	AV	360.00	150	Horizontal	N/A
3	5785.700	50.89	-9.05	74.0	23.11	Peak	252.00	150	Horizontal	Pass
3**	5785.700	39.65	-9.05	54.0	14.35	AV	252.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH46 5230MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5227.350	70.82	-10.52	--	--	Peak	360.00	150	Vertical	N/A
1**	5227.350	62.15	-10.52	--	--	AV	360.00	150	Vertical	N/A
2	5349.875	46.48	-10.56	74	27.52	Peak	216.00	150	Vertical	Pass
2**	5349.875	36.92	-10.56	54	17.08	AV	216.00	150	Vertical	Pass
3	5796.425	50.37	-9.11	74.0	23.63	Peak	144.00	150	Vertical	Pass
3**	5796.425	39.48	-9.11	54.0	14.52	AV	144.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-3)**IEEE 802.11n HT40-CH151 5755MHz-Low Band Edge**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5601.000	50.49	-8.98	68.2	17.71	Peak	288.00	150	Horizontal	Pass
2	5688.600	49.56	-9.41	96.8	47.24	Peak	36.00	150	Horizontal	Pass
3	5702.300	48.72	-9.51	105.8	57.08	Peak	180.00	150	Horizontal	Pass
4	5721.600	48.78	-9.41	114.4	65.62	Peak	144.00	150	Horizontal	Pass
5	5724.900	47.56	-9.40	122.0	74.44	Peak	324.00	150	Horizontal	Pass
6	5763.400	58.53	-9.30	--	--	Peak	180.00	150	Horizontal	N/A

IEEE 802.11n HT40-CH151 5755MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5609.500	49.67	-9.09	68.2	18.53	Peak	216.00	150	Vertical	Pass
2	5682.400	49.64	-9.32	92.2	42.56	Peak	72.00	150	Vertical	Pass
3	5718.700	48.99	-9.43	110.4	61.41	Peak	252.00	150	Vertical	Pass
4	5721.300	48.93	-9.42	113.8	64.87	Peak	324.00	150	Vertical	Pass
5	5724.900	47.22	-9.40	122.0	74.78	Peak	180.00	150	Vertical	Pass
6	5741.800	61.71	-9.53	--	--	Peak	288.00	150	Vertical	N/A

IEEE 802.11n HT40-CH159 5795MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5807.100	80.09	-9.06	--	--	Peak	360.00	150	Horizontal	N/A
2	5850.000	48.77	-9.04	122.2	73.42	Peak	252.00	150	Horizontal	Pass
3	5853.900	49.44	-9.08	113.3	63.86	Peak	108.00	150	Horizontal	Pass
4	5868.500	50.22	-9.25	107.0	56.78	Peak	360.00	150	Horizontal	Pass
5	5918.000	50.55	-8.93	73.4	22.85	Peak	108.00	150	Horizontal	Pass
6	5941.400	50.91	-8.60	68.2	17.29	Peak	252.00	150	Horizontal	Pass

IEEE 802.11n HT40-CH159 5795MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5802.700	70.82	-9.10	--	--	Peak	36.00	150	Vertical	N/A
2	5850.000	48.78	-9.04	122.2	73.43	Peak	108.00	150	Vertical	Pass
3	5852.100	49.92	-9.07	117.4	67.48	Peak	252.00	150	Vertical	Pass
4	5857.200	50.07	-9.12	110.2	60.13	Peak	36.00	150	Vertical	Pass
5	5915.500	50.05	-8.97	75.2	25.15	Peak	180.00	150	Vertical	Pass
6	5962.200	50.57	-8.53	68.2	17.63	Peak	288.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT20 (U-NII-1)

IEEE 802.11ac VHT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4757.250	48.85	-11.37	74.0	25.15	Peak	180.00	150	Horizontal	Pass
1**	4757.250	36.93	-11.37	54.0	17.07	AV	180.00	150	Horizontal	Pass
2	5149.950	46.66	-10.33	74.0	27.34	Peak	108.00	150	Horizontal	Pass
2**	5149.950	37.61	-10.33	54.0	16.39	AV	108.00	150	Horizontal	Pass
3	5182.500	84.45	-10.41	--	--	Peak	108.00	150	Horizontal	N/A
3**	5182.500	76.42	-10.41	--	--	AV	108.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH36 5180MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5115.300	48.54	-10.60	74.0	25.46	Peak	72.00	150	Vertical	Pass
1**	5115.300	37.20	-10.60	54.0	16.80	AV	72.00	150	Vertical	Pass
2	5149.950	46.84	-10.33	74.0	27.16	Peak	288.00	150	Vertical	Pass
2**	5149.950	37.29	-10.33	54.0	16.71	AV	288.00	150	Vertical	Pass
3	5172.700	67.51	-10.44	--	--	Peak	144.00	150	Vertical	N/A
3**	5172.700	59.48	-10.44	--	--	AV	144.00	150	Vertical	N/A

IEEE 802.11ac VHT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5236.125	74.93	-10.58	--	--	Peak	144.00	150	Vertical	N/A
1**	5236.125	66.61	-10.58	--	--	AV	144.00	150	Vertical	N/A
2	5349.875	46.68	-10.56	74.0	27.32	Peak	252.00	150	Vertical	Pass
2**	5349.875	36.84	-10.56	54.0	17.16	AV	252.00	150	Vertical	Pass
3	5792.850	50.49	-9.10	74.0	23.51	Peak	108.00	150	Vertical	Pass
3**	5792.850	39.28	-9.10	54.0	14.72	AV	108.00	150	Vertical	Pass

IEEE 802.11ac VHT20-CH48 5240MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5242.950	84.01	-10.61	--	--	Peak	72.00	150	Horizontal	N/A
1**	5242.950	75.25	-10.61	--	--	AV	72.00	150	Horizontal	N/A
2	5349.875	47.14	-10.56	74.0	26.86	Peak	360.00	150	Horizontal	Pass
2**	5349.875	37.09	-10.56	54.0	16.91	AV	360.00	150	Horizontal	Pass
3	5785.050	50.56	-9.04	74.0	23.44	Peak	216.00	150	Horizontal	Pass
3**	5785.050	39.45	-9.04	54.0	14.55	AV	216.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11ac VHT20 (U-NII-3)

IEEE 802.11ac VHT20-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5616.500	49.85	-9.14	68.2	18.35	Peak	108.00	150	Vertical	Pass
1**	5665.200	49.18	-9.25	79.5	30.32	Peak	324.00	150	Vertical	Pass
2	5719.000	49.39	-9.43	110.5	61.11	Peak	216.00	150	Vertical	Pass
2**	5722.600	48.69	-9.41	116.7	68.01	Peak	72.00	150	Vertical	Pass
3	5724.900	47.74	-9.40	122.0	74.26	Peak	216.00	150	Vertical	Pass
3**	5752.200	63.60	-9.51	--	--	Peak	288.00	150	Vertical	N/A

IEEE 802.11ac VHT20-CH149 5745MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5621.100	50.11	-9.16	68.2	18.09	Peak	180.00	150	Horizontal	Pass
1**	5684.200	49.57	-9.35	93.5	43.93	Peak	252.00	150	Horizontal	Pass
2	5711.300	49.51	-9.51	108.4	58.89	Peak	324.00	150	Horizontal	Pass
2**	5723.200	50.52	-9.41	118.1	67.58	Peak	72.00	150	Horizontal	Pass
3	5724.900	49.09	-9.40	122.0	72.91	Peak	72.00	150	Horizontal	Pass
3**	5747.700	77.87	-9.54	--	--	Peak	360.00	150	Horizontal	N/A

IEEE 802.11ac VHT20-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5830.700	82.35	-8.93	--	--	Peak	288.00	150	Horizontal	N/A
1**	5850.000	49.19	-9.04	122.2	73.01	Peak	252.00	150	Horizontal	Pass
2	5854.600	49.72	-9.09	111.7	61.98	Peak	324.00	150	Horizontal	Pass
2**	5858.800	49.84	-9.14	109.7	59.86	Peak	252.00	150	Horizontal	Pass
3	5910.500	50.27	-9.05	78.9	28.63	Peak	216.00	150	Horizontal	Pass
3**	5973.000	50.21	-8.57	68.2	17.99	Peak	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT20-CH165 5825MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5817.800	72.85	-8.98	--	--	Peak	36.00	150	Vertical	N/A
1**	5850.000	48.09	-9.04	122.2	74.11	Peak	144.00	150	Vertical	Pass
2	5854.400	50.62	-9.09	112.2	61.58	Peak	36.00	150	Vertical	Pass
2**	5868.700	49.96	-9.25	107.0	57.04	Peak	360.00	150	Vertical	Pass
3	5909.800	50.24	-9.06	79.4	29.16	Peak	36.00	150	Vertical	Pass
3**	5934.200	50.81	-8.64	68.2	17.39	Peak	108.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT40 (U-NII-1)

IEEE 802.11ac VHT40-CH38 5190MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.150	48.49	-10.35	74.0	25.51	Peak	324.00	150	Horizontal	Pass
1**	5147.150	37.86	-10.35	54.0	16.14	AV	324.00	150	Horizontal	Pass
2	5149.950	49.82	-10.33	74.0	24.18	Peak	216.00	150	Horizontal	Pass
2**	5149.950	38.15	-10.33	54.0	15.85	AV	216.00	150	Horizontal	Pass
3	5184.250	82.56	-10.41	--	--	Peak	36.00	150	Horizontal	N/A
3**	5184.250	73.76	-10.41	--	--	AV	36.00	150	Horizontal	N/A

IEEE 802.11ac VHT40-CH38 5190MHz-Low Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	4855.950	48.80	-11.51	74.0	25.20	Peak	72.00	150	Vertical	Pass
1**	4855.950	36.74	-11.51	54.0	17.26	AV	72.00	150	Vertical	Pass
2	5149.950	46.88	-10.33	74.0	27.12	Peak	36.00	150	Vertical	Pass
2**	5149.950	37.27	-10.33	54.0	16.73	AV	36.00	150	Vertical	Pass
3	5183.550	65.91	-10.41	--	--	Peak	36.00	150	Vertical	N/A
3**	5183.550	56.50	-10.41	--	--	AV	36.00	150	Vertical	N/A

IEEE 802.11ac VHT40-CH46 5230MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5225.400	78.95	-10.49	--	--	Peak	108.00	150	Horizontal	N/A
1**	5225.400	70.06	-10.49	--	--	AV	108.00	150	Horizontal	N/A
2	5350.200	47.01	-10.56	74.0	26.99	Peak	108.00	150	Horizontal	Pass
2**	5350.200	37.83	-10.56	54.0	16.17	AV	108.00	150	Horizontal	Pass
3	5662.200	50.69	-9.23	74.0	23.31	Peak	144.00	150	Horizontal	Pass
3**	5662.200	39.19	-9.23	54.0	14.81	AV	144.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH46 5230MHz-High Band Edge

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5233.525	72.73	-10.57	--	--	Peak	360.00	150	Vertical	N/A
1**	5233.525	63.89	-10.57	--	--	AV	360.00	150	Vertical	N/A
2	5349.875	46.34	-10.56	74.0	71.66	Peak	108.00	150	Vertical	Pass
2**	5349.875	36.88	-10.56	54.0	85.32	AV	108.00	150	Vertical	Pass
3	5781.475	50.16	-9.01	74.0	23.84	Peak	288.00	150	Vertical	Pass
3**	5781.475	39.25	-9.01	54.0	14.75	AV	288.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11n HT40 (U-NII-3)

IEEE 802.11ac VHT40-CH151 5755MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5642.100	49.90	-9.18	68.2	18.30	Peak	72.00	150	Horizontal	Pass
2	5677.800	49.79	-9.29	88.8	39.01	Peak	72.00	150	Horizontal	Pass
3	5718.300	49.19	-9.44	110.3	61.11	Peak	360.00	150	Horizontal	Pass
4	5721.600	50.09	-9.41	114.4	64.31	Peak	72.00	150	Horizontal	Pass
5	5724.900	49.78	-9.40	122.0	72.22	Peak	252.00	150	Horizontal	Pass
6	5749.100	76.78	-9.54	--	--	Peak	36.00	150	Horizontal	N/A

IEEE 802.11ac VHT40-CH151 5755MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5615.000	49.69	-9.13	68.2	18.51	Peak	360.00	150	Vertical	Pass
2	5682.800	49.64	-9.33	92.5	42.86	Peak	360.00	150	Vertical	Pass
3	5715.000	49.05	-9.47	109.4	60.35	Peak	0.00	150	Vertical	Pass
4	5723.100	49.02	-9.41	117.9	68.88	Peak	72.00	150	Vertical	Pass
5	5724.900	47.30	-9.40	122.0	74.70	Peak	216.00	150	Vertical	Pass
6	5762.800	62.64	-9.32	--	--	Peak	360.00	150	Vertical	N/A

IEEE 802.11ac VHT40-CH159 5795MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5807.100	79.88	-9.06	--	--	Peak	144.00	150	Horizontal	N/A
2	5850.000	48.77	-9.04	122.2	73.43	Peak	288.00	150	Horizontal	Pass
3	5853.300	49.57	-9.08	114.7	65.13	Peak	324.00	150	Horizontal	Pass
4	5862.200	49.88	-9.17	108.8	58.92	Peak	108.00	150	Horizontal	Pass
5	5920.300	50.16	-8.89	71.7	21.54	Peak	360.00	150	Horizontal	Pass
6	5968.000	50.54	-8.56	68.2	17.66	Peak	360.00	150	Horizontal	Pass

IEEE 802.11ac VHT40-CH159 5795MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5800.600	71.22	-9.12	--	--	Peak	360.00	150	Vertical	N/A
2	5850.000	48.17	-9.04	122.2	74.03	Peak	360.00	150	Vertical	Pass
3	5854.200	49.78	-9.09	112.6	62.82	Peak	36.00	150	Vertical	Pass
4	5865.700	50.30	-9.22	107.8	57.50	Peak	144.00	150	Vertical	Pass
5	5913.100	49.92	-9.01	77.0	27.08	Peak	36.00	150	Vertical	Pass
6	5934.000	50.40	-8.64	68.2	17.80	Peak	252.00	150	Vertical	Pass

Radiated Band Edge-IEEE 802.11ac VHT80 (U-NII-1)

IEEE 802.11ac VHT80-CH42 5210MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5079.950	48.73	-10.93	74.0	25.27	Peak	216.00	100	Horizontal	Pass
1**	5079.950	36.92	-10.93	54.0	17.08	AV	216.00	100	Horizontal	Pass
2	5149.950	47.99	-10.33	74.0	26.01	Peak	36.00	100	Horizontal	Pass
2**	5149.950	38.15	-10.33	54.0	15.85	AV	36.00	100	Horizontal	Pass
3	5182.500	78.79	-10.41	--	--	Peak	36.00	100	Horizontal	N/A
3**	5182.500	70.42	-10.41	--	--	AV	36.00	100	Horizontal	N/A

IEEE 802.11ac VHT80-CH42 5210MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5107.950	48.27	-10.60	74.0	25.73	Peak	216.00	150	Vertical	Pass
1**	5107.950	37.05	-10.60	54.0	16.95	AV	216.00	150	Vertical	Pass
2	5149.950	47.32	-10.33	74.0	26.68	Peak	108.00	150	Vertical	Pass
2**	5149.950	37.33	-10.33	54.0	16.67	AV	108.00	150	Vertical	Pass
3	5200.000	62.42	-10.39	--	--	Peak	288.00	150	Vertical	N/A
3**	5200.000	53.49	-10.39	--	--	AV	288.00	150	Vertical	N/A

IEEE 802.11ac VHT80-CH42 5210MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5236.125	69.39	-10.58	--	--	Peak	360.00	150	Vertical	N/A
1**	5236.125	61.13	-10.58	--	--	AV	360.00	150	Vertical	N/A
2	5349.875	46.91	-10.56	74.0	27.09	Peak	72.00	150	Vertical	Pass
2**	5349.875	37.09	-10.56	54.0	16.91	AV	72.00	150	Vertical	N/A
3	5790.900	50.53	-9.09	74.0	23.47	Peak	108.00	150	Vertical	Pass
3**	5790.900	39.43	-9.09	54.0	14.57	AV	108.00	150	Vertical	Pass

IEEE 802.11ac VHT80-CH42 5210MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5182.175	78.71	-10.41	--	--	Peak	288.00	150	Horizontal	N/A
1**	5182.175	70.50	-10.41	--	--	AV	288.00	150	Horizontal	N/A
2	5349.875	45.96	-10.56	74.0	28.04	Peak	72.00	150	Horizontal	Pass
2**	5349.875	36.92	-10.56	54.0	17.08	AV	72.00	150	Horizontal	N/A
3	5789.275	49.99	-9.08	74.0	24.01	Peak	360.00	150	Horizontal	Pass
3**	5789.275	39.48	-9.08	54.0	14.52	AV	360.00	150	Horizontal	Pass

Radiated Band Edge-IEEE 802.11ac VHT80 (U-NII-3)

IEEE 802.11ac VHT80-CH155 5775MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5615.800	49.50	-9.13	68.2	18.70	Peak	252.00	100	Vertical	Pass
2	5676.000	49.33	-9.29	87.5	38.17	Peak	72.00	100	Vertical	Pass
3	5716.200	49.21	-9.46	109.7	60.49	Peak	36.00	100	Vertical	Pass
4	5720.600	49.09	-9.42	112.2	63.11	Peak	252.00	100	Vertical	Pass
5	5724.900	47.20	-9.40	122.0	74.80	Peak	288.00	100	Vertical	Pass
6	5791.300	68.42	-9.11	--	--	Peak	108.00	100	Vertical	N/A

IEEE 802.11ac VHT80-CH155 5775MHz-Low Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5609.300	50.46	-9.08	68.2	17.74	Peak	360.00	150	Horizontal	Pass
1**	5676.000	48.87	-9.29	87.5	38.63	Peak	252.00	150	Horizontal	Pass
2	5714.400	48.84	-9.48	109.2	60.36	Peak	360.00	150	Horizontal	Pass
2**	5723.900	49.54	-9.40	119.7	70.16	Peak	324.00	150	Horizontal	Pass
3	5724.900	47.81	-9.40	122.0	74.19	Peak	180.00	150	Horizontal	Pass
3**	5795.300	75.96	-9.12	--	--	Peak	72.00	150	Horizontal	N/A

IEEE 802.11ac VHT80-CH155 5775MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5801.800	75.62	-9.11	--	176.38	Peak	252.00	100	Horizontal	Pass
1**	5850.000	48.88	-9.04	122.2	73.32	Peak	180.00	100	Horizontal	Pass
2	5853.800	49.52	-9.08	113.5	63.98	Peak	360.00	100	Horizontal	Pass
2**	5867.800	50.42	-9.24	107.2	56.78	Peak	72.00	100	Horizontal	Pass
3	5911.500	50.37	-9.04	78.2	27.83	Peak	324.00	100	Horizontal	Pass
3**	5930.300	50.53	-8.69	68.2	17.67	Peak	216.00	100	Horizontal	Pass

IEEE 802.11ac VHT80-CH155 5775MHz-High Band Edge										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5801.800	67.56	-9.11	--	148.44	Peak	216.00	150	Vertical	Pass
1**	5850.000	49.06	-9.04	122.2	73.14	Peak	252.00	150	Vertical	Pass
2	5853.100	49.46	-9.08	115.1	65.64	Peak	108.00	150	Vertical	Pass
2**	5872.400	49.38	-9.28	105.9	56.52	Peak	252.00	150	Vertical	Pass
3	5909.400	50.45	-9.07	79.7	29.25	Peak	144.00	150	Vertical	Pass
3**	5996.500	50.66	-8.63	68.2	17.54	Peak	108.00	150	Vertical	Pass

Note:

- Results (dBuV/m) = Raw Value (dBuV) + Factor (dB/m)
- Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
- Margin value = Limit - Results.

9. AC POWER LINE CONDUCTED EMISSIONS

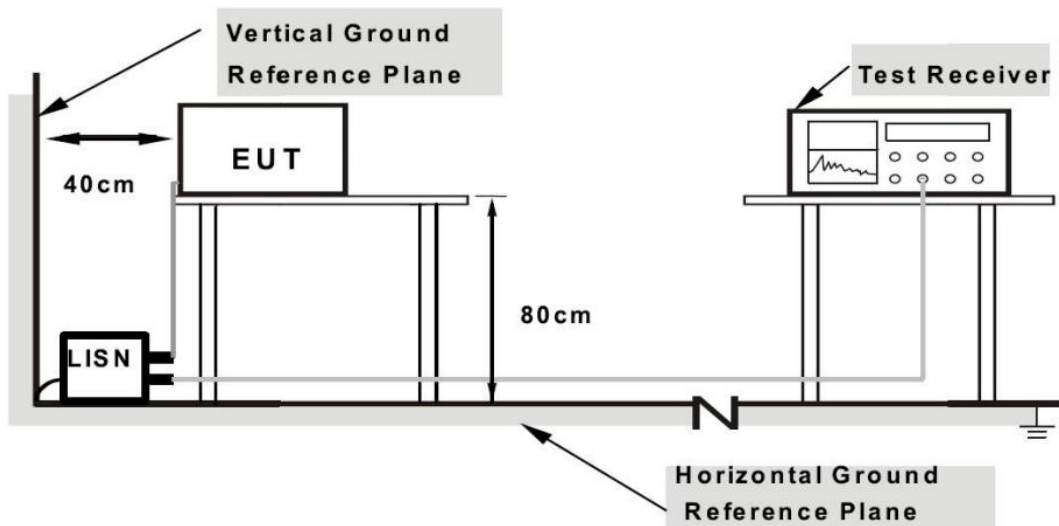
9.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

9.2. Test Setup



9.3. Spectrum Analyzer Setting

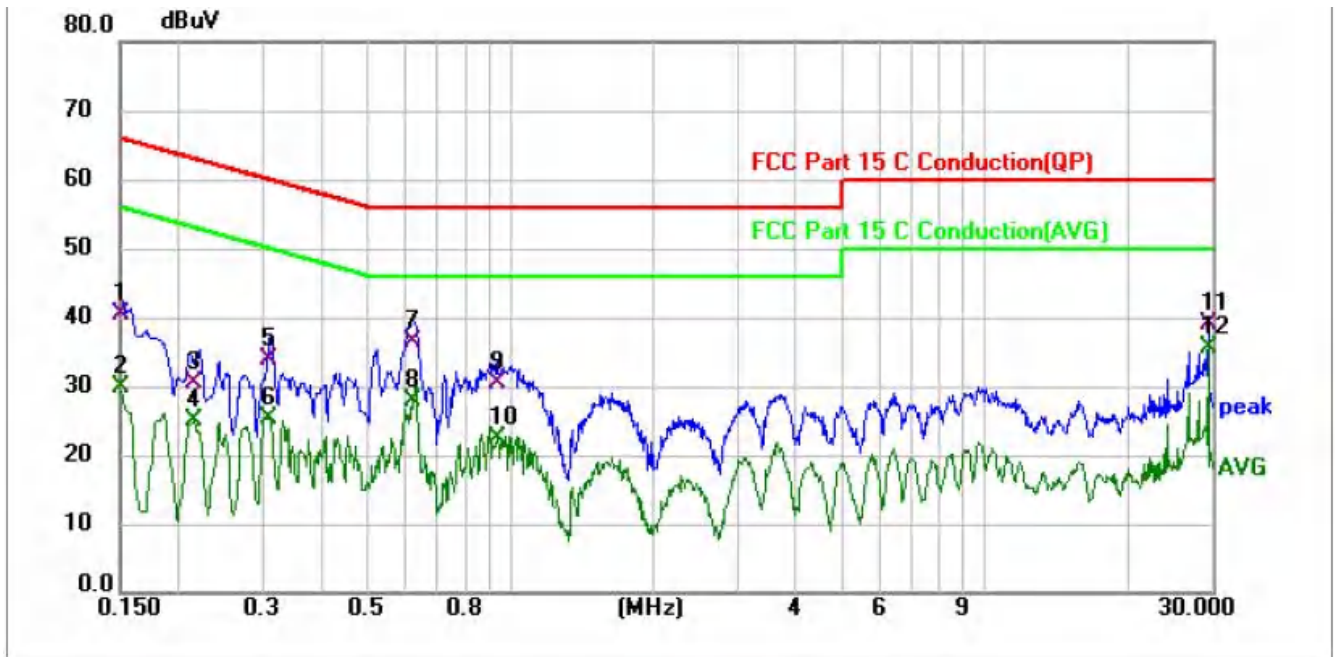
Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

9.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line is checked to find out the maximum conducted emission. To find the maximum emission levels, the relative positions of equipment and all the interface cables shall be changed according to ANSI C63.10:2020 on Conducted Emission Test.
- g. Record the results in the test report. (only worse case: IEEE 802.11a mode with CH36 5180MHz is reported)

9.5. Test Result

EUT: Tablet PC
M/N: AF13/ES510
Test Voltage: DC 12V by Switching Power Supply Input: AC 240V/50Hz
Phase: Live
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below

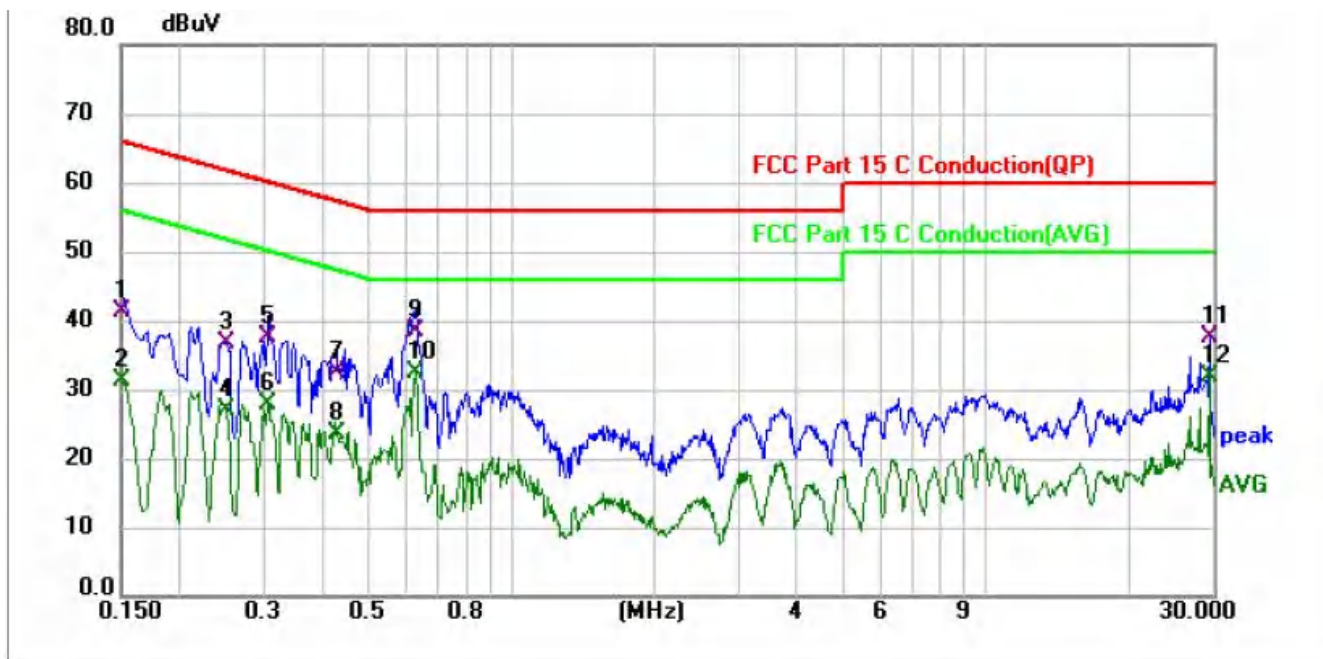


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.150	19.50	20.82	40.32	66.00	-25.68	QP	P	
2	0.150	8.99	20.82	29.81	56.00	-26.19	AVG	P	
3	0.214	9.47	20.84	30.31	63.05	-32.74	QP	P	
4	0.214	4.19	20.84	25.03	53.05	-28.02	AVG	P	
5	0.310	13.18	20.82	34.00	59.97	-25.97	QP	P	
6	0.310	4.60	20.82	25.42	49.97	-24.55	AVG	P	
7	0.622	15.61	20.84	36.45	56.00	-19.55	QP	P	
8	0.622	6.98	20.84	27.82	46.00	-18.18	AVG	P	
9	0.934	9.68	20.87	30.55	56.00	-25.45	QP	P	
10	0.934	1.63	20.87	22.50	46.00	-23.50	AVG	P	
11	29.590	14.01	25.12	39.13	60.00	-20.87	QP	P	
12 *	29.590	10.51	25.12	35.63	50.00	-14.37	AVG	P	

Remark: The test Result=Reading+ L_{isn}+ C_{ab} L.

If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EUT: Tablet PC
M/N: AF13/ES510
Test Voltage: DC 12V by Switching Power Supply Input: AC 240V/50Hz
Phase: Neutral
Test Mode: TX Mode
Note: only worse case: IEEE 802.11n HT20 mode with CH36 5180MHz is reported
Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.150	20.64	20.65	41.29	66.00	-24.71	QP	P	
2	0.150	10.67	20.65	31.32	56.00	-24.68	AVG	P	
3	0.250	16.00	20.66	36.66	61.76	-25.10	QP	P	
4	0.250	6.44	20.66	27.10	51.76	-24.66	AVG	P	
5	0.306	17.00	20.66	37.66	60.08	-22.42	QP	P	
6	0.306	7.22	20.66	27.88	50.08	-22.20	AVG	P	
7	0.426	11.79	20.66	32.45	57.33	-24.88	QP	P	
8	0.426	2.92	20.66	23.58	47.33	-23.75	AVG	P	
9	0.626	17.83	20.66	38.49	56.00	-17.51	QP	P	
10 *	0.626	11.83	20.66	32.49	46.00	-13.51	AVG	P	
11	29.614	12.40	25.07	37.47	60.00	-22.53	QP	P	
12	29.614	6.72	25.07	31.79	50.00	-18.21	AVG	P	

Remark: The test Result=Reading+ Lisn+ Cab L.

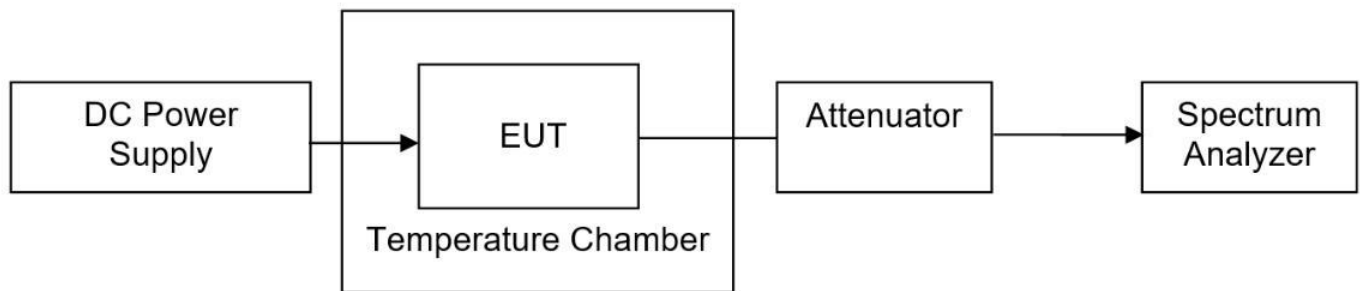
If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

10. FREQUENCY STABILITY

10.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

10.2. Test Setup



10.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
Center Frequency	The center frequency of the channel under test
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

10.4. Test Procedure

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

10.5.Test Result

Reference Frequency:802.11ac channel=36 frequency=5180MHz					
Voltage(V)	Temperature (°C)	Frequency error		Limit(ppm)	Result
		Hz	ppm		
DC 3.80	-30	110.63	0.021	Within the band of operation	Pass
	-20	174.62	0.034		
	-10	145.69	0.028		
	0	146.39	0.028		
	10	145.83	0.028		
	20	99.51	0.019		
	30	167.59	0.032		
	40	129.72	0.025		
	50	128.48	0.025		
DC 4.20	25	195.43	0.038		
DC 3.40	25	118.83	0.023		

Reference Frequency:802.11ac channel=149 frequency=5745MHz					
Voltage(V)	Temperature (°C)	Frequency error		Limit(ppm)	Result
		Hz	ppm		
DC 3.80	-30	108.22	0.019	Within the band of operation	Pass
	-20	89.51	0.016		
	-10	49.27	0.009		
	0	62.58	0.011		
	10	56.98	0.010		
	20	51.16	0.009		
	30	52.57	0.009		
	40	84.92	0.015		
	50	109.91	0.019		
DC 4.20	25	54.60	0.010		
DC 3.40	25	53.89	0.009		

11. ANTENNA REQUIREMENTS

11.1. Limit

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

11.2. Test Result

The antennas used for this product is internal antenna (FPC, IPEX connector), so compliance with antenna requirements. (Please refer to the **Annex B. EUT Internal Photos** for details)



12.APPENDIX

"EUT of External Photos, EUT Internal Photos & Test Setup Photos" Please refer to the Annex A, Annex B& Annex C document.

CTSL2511230005ER Annex A. EUT External Photos

CTSL2511230005ER Annex B. EUT Internal Photos

CTSL2511230005ER Annex C. Test Setup Photos

-----***End of Test Report***-----

