

FCC REPORT

(UNII)

Applicant: PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

Equipment Under Test (EUT)

Product Name: Countertop Payment Terminal

Model No.: A80

Trade mark: PAX

FCC ID: V5PA80SMBW

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: 21 Oct., 2021

Date of Test: 22 Oct., to 01 Dec., 2021

Date of report issued: 13 Dec., 2021

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	01 Dec., 2021	Original
01	13 Dec., 2021	Update manufacturer addresses.

Tested by: Mike.ou
Test Engineer

Date: 13 Dec., 2021

Reviewed by: Winner Zhang
Project Engineer

Date: 13 Dec., 2021

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4 Test Summary

Test Item	Section in CFR 47	Test Data	Test Result
Antenna requirement	15.203 & 15.407 (a)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 5G Wi-Fi	Pass
Conducted Peak Output Power	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
26dB Occupied Bandwidth	15.407 (a) (12)	Appendix A – 5G Wi-Fi	Pass
6dB Emission Bandwidth	15.407(e)	Appendix A – 5G Wi-Fi	Pass
Power Spectral Density	15.407 (a) (1) (iv) & (a) (2) & (a) (3)	Appendix A – 5G Wi-Fi	Pass
Band Edge	15.407(b)	See Section 6.6	Pass
Spurious Emission	15.407 (b) & 15.205 & 15.209	See Section 6.7	Pass
Frequency Stability	15.407(g)	Appendix A – 5G Wi-Fi	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
Test Method:	ANSI C63.10-2013 KDB 789033 D02 General UNII Test Procedures New Rules v02r01		

5 General Information

5.1 Client Information

Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

5.2 General Description of E.U.T.

Product Name:	Countertop Payment Terminal				
Model No.:	A80				
Operation Frequency:	Band 1: 5150MHz-5250MHz		Band 2: 5250MHz-5350MHz		
	Band 3: 5470MHz-5725MHz		Band 4: 5725MHz-5825MHz		
Channel numbers:	Band 1:	802.11a/802.11n/ac20: 4	802.11n/ac40: 2	802.11ac80: 1	
	Band 2:	802.11a/802.11n/ac20: 4	802.11n/ac40: 2	802.11ac80: 1	
	Band 3:	802.11a/802.11n20: 11	802.11n/ac40: 5	802.11ac80: 2	
	Band 4:	802.11a/802.11n/ac20: 5	802.11n/ac40: 2	802.11ac80: 1	
Channel separation:	20MHz:	802.11a/802.11n-HT20/802.11ac-HT20			
	40MHz:	802.11n-HT40/802.11ac-HT40			
	80MHz:	802.11ac-HT80			
Modulation technology (IEEE 802.11a):	BPSK, QPSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11n):	BPSK, QPSK, 16-QAM, 64-QAM				
Modulation technology (IEEE 802.11ac):	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM				
Data speed (IEEE 802.11a):	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps				
Data speed (IEEE 802.11n20):	MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps				
Data speed (IEEE 802.11n40):	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps				
Data speed (IEEE 802.11ac):	Up to 433.3Mbps				
Antenna Type:	Internal Antenna				
Antenna gain:	2.0 dBi				
AC adapter:	Adapter 1: Model No.: G024A090100ZZUD Input: AC100-240V, 50/60Hz 0.8A Max Output: DC 9.0V, 1.0A Adapter 2: Model No.: ADS-18SG-09-2 09009G Input: AC100-240V, 50/60Hz 0.6A Max Output: DC 9.0V, 1.0A Adapter 3: Model No.: SW-0396A Input: AC100-240V, 50/60Hz 0.5A Max				

	Output: DC 9.0V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	There are two kinds of EUT, one with modem, the other without. Choose to test the EUT with modem.

Operation Frequency each of channel					
Band 1					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	42	5210MHz
40	5200MHz	46	5230MHz		
44	5220MHz				
48	5240MHz				
Band 2					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260MHz	54	5270MHz	58	5290MHz
56	5280MHz	62	5310MHz		
60	5300MHz				
64	5320MHz				
Band 3					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500MHz	102	5510MHz	106	5530MHz
104	5520MHz	110	5550MHz	122	5610MHz
108	5540MHz	118	5590MHz		
112	5560MHz	126	5630MHz		
116	5580MHz	134	5670MHz		
120	5600MHz				
124	5620MHz				
128	5640MHz				
132	5660MHz				
136	5680MHz				
140	5700MHz				
Band 4					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	155	5775MHz
153	5765MHz	159	5795MHz		
157	5785MHz				
161	5805MHz				
165	5825MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Band 1					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest	5180MHz	Lowest	5190MHz	Middle	5210MHz
Middle	5200MHz	Highest	5230MHz		
Highest	5240MHz				
Band 2					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest	5260MHz	Lowest	5270MHz	Middle	5290MHz
Middle	5280MHz	Highest	5310MHz		
Highest	5320MHz				
Band 3					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest	5500MHz	Lowest	5510MHz	Lowest	5530MHz
Middle	5600MHz	Middle	5590MHz	Highest	5610MHz
Highest	5700MHz	Highest	5670MHz		
Band 4					
802.11a/802.11n/ac-HT20		802.11n/ac-HT40		802.11ac-HT80	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest	5745MHz	Lowest	5755MHz	Middle	5775MHz
Middle	5785MHz	Highest	5795MHz		
Highest	5825MHz				

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate, and found the follow list were the worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n/ac20	6.5 Mbps
802.11n/ac40	13.5 Mbps
802.11ac80	29.3 Mbps

5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
The EUT has been tested as an independent unit.				

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
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5.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

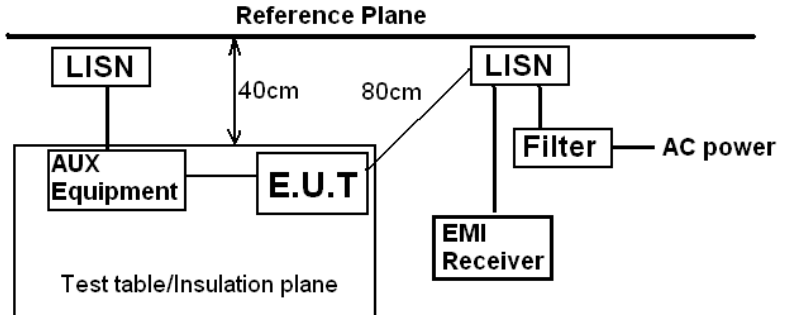
Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		

6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 E Section 15.203 /407(a)
15.203 requirement: 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, 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, or § 15.221. 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.	
E.U.T Antenna:	
The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.0 dBi.	

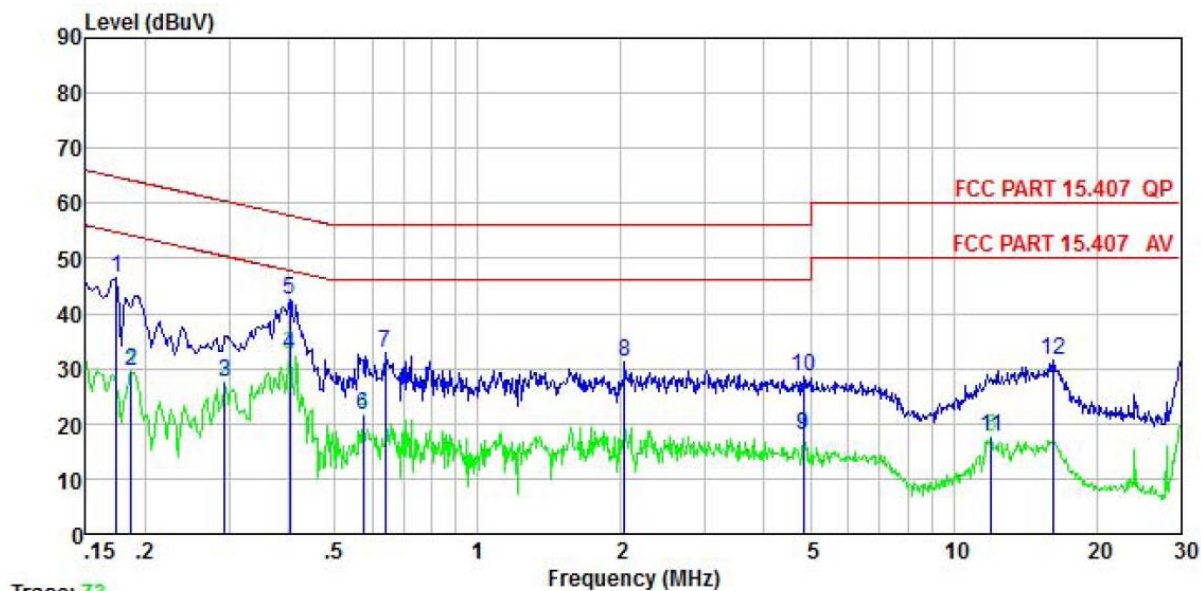
6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	
	0.15-0.5	66 to 56*	0.15-0.5
	0.5-5	56	0.5-5
	5-30	60	5-30
* Decreases with the logarithm of the frequency.			
Test procedure	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details.		
Test results:	Pass(pre-scan adapter 1, adapter 2 and adapter 3, found adapter 2 was worse case mode, only reflects the worst mode)		

Measurement Data:

Adapter 2:

Product name:	Countertop Payment Terminal	Product model:	A80
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

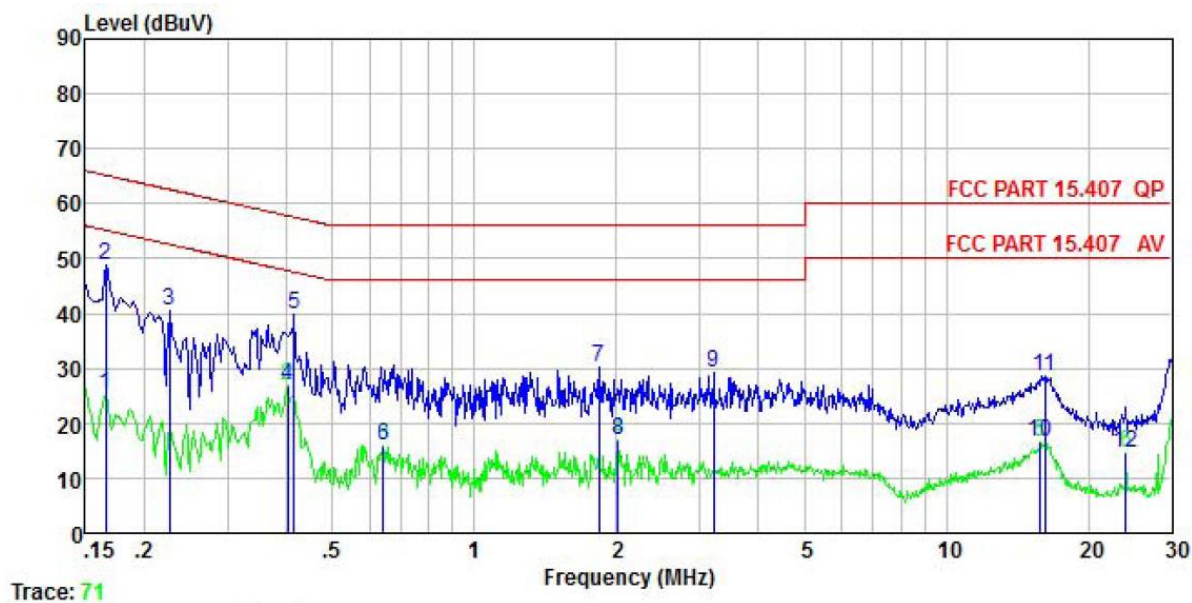


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.174	36.20	10.23	0.00	0.01	46.44	64.77	-18.33	QP
2	0.186	19.18	10.23	0.00	0.02	29.43	54.20	-24.77	Average
3	0.294	17.23	10.26	0.00	0.03	27.52	50.41	-22.89	Average
4	0.402	22.10	10.28	0.00	0.04	32.42	47.81	-15.39	Average
5	0.402	32.22	10.28	0.00	0.04	42.54	57.81	-15.27	QP
6	0.573	11.39	10.29	0.00	0.02	21.70	46.00	-24.30	Average
7	0.637	22.67	10.30	0.00	0.02	32.99	56.00	-23.01	QP
8	2.033	20.71	10.33	0.00	0.20	31.24	56.00	-24.76	QP
9	4.822	7.53	10.42	0.00	0.09	18.04	46.00	-27.96	Average
10	4.822	17.96	10.42	0.00	0.09	28.47	56.00	-27.53	QP
11	11.996	6.93	10.67	0.00	0.10	17.70	50.00	-32.30	Average
12	16.140	20.42	10.81	0.00	0.16	31.39	60.00	-28.61	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

Product name:	Countertop Payment Terminal	Product model:	A80
Test by:	Mike	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

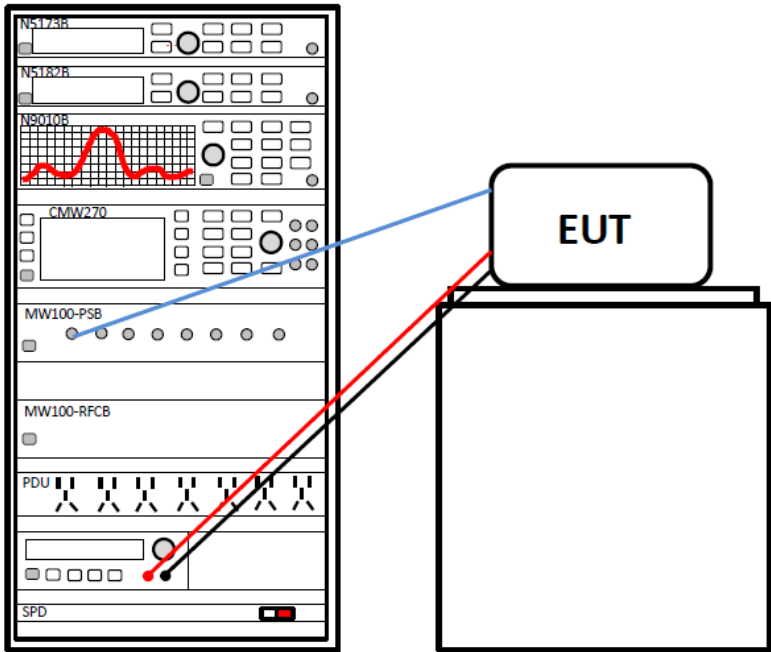


	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.166	14.88	10.20	0.00	0.01	25.09	55.16	-30.07	Average
2	0.166	38.52	10.20	0.00	0.01	48.73	65.16	-16.43	QP
3	0.226	30.31	10.23	0.00	0.02	40.56	62.61	-22.05	QP
4	0.402	16.72	10.27	0.00	0.04	27.03	47.81	-20.78	Average
5	0.415	29.43	10.27	0.00	0.04	39.74	57.55	-17.81	QP
6	0.641	5.58	10.29	0.00	0.02	15.89	46.00	-30.11	Average
7	1.839	19.81	10.32	0.00	0.19	30.32	56.00	-25.68	QP
8	2.012	6.26	10.32	0.00	0.21	16.79	46.00	-29.21	Average
9	3.207	18.89	10.35	0.00	0.07	29.31	56.00	-26.69	QP
10	15.801	5.75	10.76	0.00	0.16	16.67	50.00	-33.33	Average
11	16.140	17.75	10.77	0.00	0.16	28.68	60.00	-31.32	QP
12	24.015	3.50	10.89	0.00	0.17	14.56	50.00	-35.44	Average

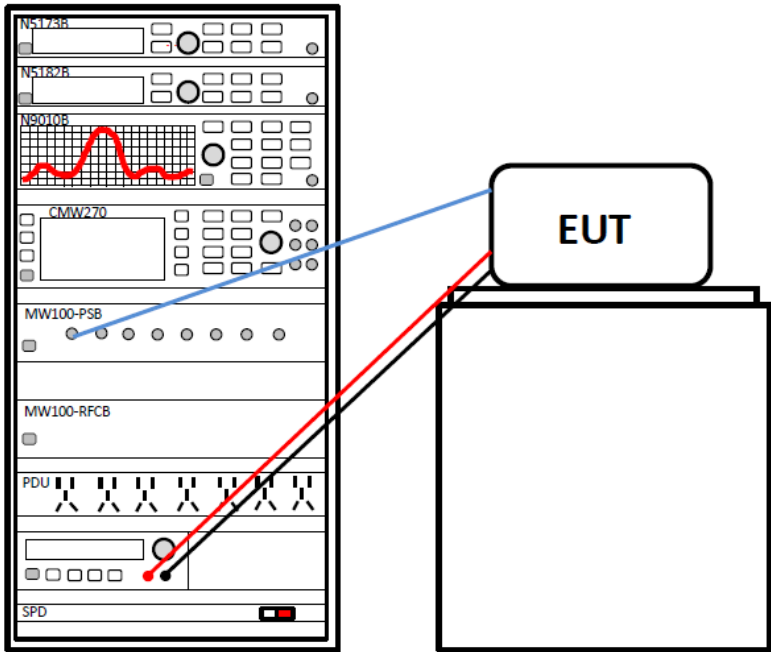
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

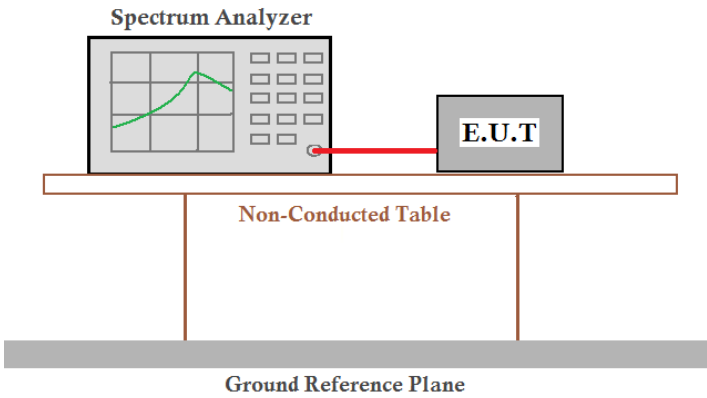
6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(2) & (a) (3)
Limit:	Band 1: 24dBm Band 2: 24dBm or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. Band 3: 24dBm or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. Band 4: 30dBm
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

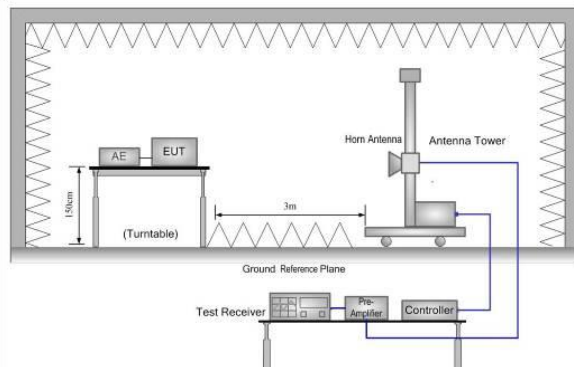
6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (12) and Section 15.407 (e)
Limit:	Band 1/2/3/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)
Test setup:	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (2) & (a)(3)
Limit:	Band 1: 11 dBm/MHz Band 2: 11 dBm/MHz Band 3: 11 dBm/MHz Band 4: 30 dBm/500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 5G WIFI

6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b)			
Receiver setup:	Detector	RBW	VBW	Remark
	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	RMS	1MHz	3MHz	Average Value
Limit:	Band	Limit (dBuV/m @3m)		Remark
	Band 1/2/3	68.20		Peak Value
		54.00		Average Value
		Band 4 limit: 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. Remark: 1. Band 1/2/3 limit: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2 \text{ dBuV/m}$, for $EIPR[dBm]=-27dBm$. 2. Band 4 limit: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2 \text{ dBuV/m}$, for $EIPR[dBm]=-27dBm$. $E[dB\mu V/m] = EIRP[dBm] + 95.2=105.2 \text{ dBuV/m}$, for $EIPR[dBm]=10dBm$. $E[dB\mu V/m] = EIRP[dBm] + 95.2=110.8 \text{ dBuV/m}$, for $EIPR[dBm]=15.6dBm$. $E[dB\mu V/m] = EIRP[dBm] + 95.2=122.2 \text{ dBuV/m}$, for $EIPR[dBm]=27dBm$.		
	Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.		
Test setup:				
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data (worst case):
Band 1:

Band 1 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	39.20	15.49	54.69	68.20	13.51	Horizontal	Peak
5150.00	40.19	15.49	55.68	68.20	12.52	Vertical	Peak
5150.00	31.63	15.49	47.12	54.00	6.88	Horizontal	Average
5150.00	32.46	15.49	47.95	54.00	6.05	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	40.52	16.44	56.96	68.20	11.24	Horizontal	Peak
5350.00	39.30	16.44	55.74	68.20	12.46	Vertical	Peak
5350.00	32.83	16.44	49.27	54.00	4.73	Horizontal	Average
5350.00	32.79	16.44	49.23	54.00	4.77	Vertical	Average
Band 1 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	40.91	15.49	56.40	68.20	11.8	Horizontal	Peak
5150.00	39.68	15.49	55.17	68.20	13.03	Vertical	Peak
5150.00	32.76	15.49	48.25	54.00	5.75	Horizontal	Average
5150.00	32.04	15.49	47.53	54.00	6.47	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	40.23	16.44	56.67	68.20	11.53	Horizontal	Peak
5350.00	39.82	16.44	56.26	68.20	11.94	Vertical	Peak
5350.00	32.33	16.44	48.77	54.00	5.23	Horizontal	Average
5350.00	32.03	16.44	48.47	54.00	5.53	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 1 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	40.21	15.49	55.70	68.20	12.5	Horizontal	Peak
5150.00	39.99	15.49	55.48	68.20	12.72	Vertical	Peak
5150.00	32.52	15.49	48.01	54.00	5.99	Horizontal	Average
5150.00	31.85	15.49	47.34	54.00	6.66	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	40.04	16.44	56.48	68.20	11.72	Horizontal	Peak
5350.00	39.51	16.44	55.95	68.20	12.25	Vertical	Peak
5350.00	32.84	16.44	49.28	54.00	4.72	Horizontal	Average
5350.00	32.10	16.44	48.54	54.00	5.46	Vertical	Average
Band 1 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	32.95	15.49	48.44	68.20	19.76	Horizontal	Peak
5150.00	39.73	15.49	55.22	68.20	12.98	Vertical	Peak
5150.00	32.43	15.49	47.92	54.00	6.08	Horizontal	Average
5150.00	32.19	15.49	47.68	54.00	6.32	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	39.40	16.44	55.84	68.20	12.36	Horizontal	Peak
5350.00	39.60	16.44	56.04	68.20	12.16	Vertical	Peak
5350.00	32.59	16.44	49.03	54.00	4.97	Horizontal	Average
5350.00	32.14	16.44	48.58	54.00	5.42	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 1 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	31.94	15.49	47.43	68.20	20.77	Horizontal	Peak
5150.00	40.25	15.49	55.74	68.20	12.46	Vertical	Peak
5150.00	32.17	15.49	47.66	54.00	6.34	Horizontal	Average
5150.00	31.73	15.49	47.22	54.00	6.78	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	39.14	16.44	55.58	68.20	12.62	Horizontal	Peak
5350.00	39.37	16.44	55.81	68.20	12.39	Vertical	Peak
5350.00	32.77	16.44	49.21	54.00	4.79	Horizontal	Average
5350.00	32.54	16.44	48.98	54.00	5.02	Vertical	Average
Band 1 – 802.11ac(HT80)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	39.64	15.49	55.13	68.20	13.07	Horizontal	Peak
5150.00	40.57	15.49	56.06	68.20	12.14	Vertical	Peak
5150.00	32.67	15.49	48.16	54.00	5.84	Horizontal	Average
5150.00	32.42	15.49	47.91	54.00	6.09	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	39.30	16.44	55.74	68.20	12.46	Horizontal	Peak
5350.00	39.09	16.44	55.53	68.20	12.67	Vertical	Peak
5350.00	31.94	16.44	48.38	54.00	5.62	Horizontal	Average
5350.00	31.87	16.44	48.31	54.00	5.69	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2:

Band 2 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.58	15.49	51.07	68.20	17.13	Horizontal	Peak
5150.00	35.74	15.49	51.23	68.20	16.97	Vertical	Peak
5150.00	28.05	15.49	43.54	54.00	10.46	Horizontal	Average
5150.00	26.79	15.49	42.28	54.00	11.72	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.28	16.44	51.72	68.20	16.48	Horizontal	Peak
5350.00	34.00	16.44	50.44	68.20	17.76	Vertical	Peak
5350.00	27.25	16.44	43.69	54.00	10.31	Horizontal	Average
5350.00	26.66	16.44	43.10	54.00	10.90	Vertical	Average
Band 2 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.61	15.49	51.10	68.20	17.10	Horizontal	Peak
5150.00	35.69	15.49	51.18	68.20	17.02	Vertical	Peak
5150.00	28.53	15.49	44.02	54.00	9.98	Horizontal	Average
5150.00	26.40	15.49	41.89	54.00	12.11	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.16	16.44	51.60	68.20	16.60	Horizontal	Peak
5350.00	33.81	16.44	50.25	68.20	17.95	Vertical	Peak
5350.00	27.07	16.44	43.51	54.00	10.49	Horizontal	Average
5350.00	26.96	16.44	43.40	54.00	10.60	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	34.32	15.49	49.81	68.20	18.39	Horizontal	Peak
5150.00	34.43	15.49	49.92	68.20	18.28	Vertical	Peak
5150.00	27.53	15.49	43.02	54.00	10.98	Horizontal	Average
5150.00	27.31	15.49	42.80	54.00	11.20	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.30	16.44	51.74	68.20	16.46	Horizontal	Peak
5350.00	34.83	16.44	51.27	68.20	16.93	Vertical	Peak
5350.00	26.91	16.44	43.35	54.00	10.65	Horizontal	Average
5350.00	27.33	16.44	43.77	54.00	10.23	Vertical	Average
Band 2 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.77	15.49	51.26	68.20	16.94	Horizontal	Peak
5150.00	35.94	15.49	51.43	68.20	16.77	Vertical	Peak
5150.00	27.66	15.49	43.15	54.00	10.85	Horizontal	Average
5150.00	26.58	15.49	42.07	54.00	11.93	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.63	16.44	52.07	68.20	16.13	Horizontal	Peak
5350.00	33.57	16.44	50.01	68.20	18.19	Vertical	Peak
5350.00	26.90	16.44	43.34	54.00	10.66	Horizontal	Average
5350.00	26.85	16.44	43.29	54.00	10.71	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	34.79	15.49	50.28	68.20	17.92	Horizontal	Peak
5150.00	34.27	15.49	49.76	68.20	18.44	Vertical	Peak
5150.00	27.96	15.49	43.45	54.00	10.55	Horizontal	Average
5150.00	27.10	15.49	42.59	54.00	11.41	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	35.27	16.44	51.71	68.20	16.49	Horizontal	Peak
5350.00	35.22	16.44	51.66	68.20	16.54	Vertical	Peak
5350.00	27.14	16.44	43.58	54.00	10.42	Horizontal	Average
5350.00	27.59	16.44	44.03	54.00	9.97	Vertical	Average
Band 2 – 802.11ac(HT80)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5150.00	35.01	15.49	50.50	68.20	17.70	Horizontal	Peak
5150.00	35.05	15.49	50.54	68.20	17.66	Vertical	Peak
5150.00	27.32	15.49	42.81	54.00	11.19	Horizontal	Average
5150.00	27.44	15.49	42.93	54.00	11.07	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5350.00	34.49	16.44	50.93	68.20	17.27	Horizontal	Peak
5350.00	34.41	16.44	50.85	68.20	17.35	Vertical	Peak
5350.00	27.35	16.44	43.79	54.00	10.21	Horizontal	Average
5350.00	27.24	16.44	43.68	54.00	10.32	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3:

Band 3 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.38	16.80	51.18	78.20	27.02	Horizontal	Peak
5470.00	34.27	16.80	51.07	78.20	27.13	Vertical	Peak
5470.00	26.02	16.80	42.82	54.00	11.18	Horizontal	Average
5470.00	26.76	16.80	43.56	54.00	10.44	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	34.81	17.23	52.04	78.20	26.16	Horizontal	Peak
5725.00	34.80	17.23	52.03	78.20	26.17	Vertical	Peak
5725.00	27.82	17.23	45.05	54.00	8.95	Horizontal	Average
5725.00	26.78	17.23	44.01	54.00	9.99	Vertical	Average
Band 3 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.34	16.80	51.14	78.20	27.06	Horizontal	Peak
5470.00	34.24	16.80	51.04	78.20	27.16	Vertical	Peak
5470.00	25.91	16.80	42.71	54.00	11.29	Horizontal	Average
5470.00	27.13	16.80	43.93	54.00	10.07	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	34.55	17.23	51.78	78.20	26.42	Horizontal	Peak
5725.00	34.61	17.23	51.84	78.20	26.36	Vertical	Peak
5725.00	27.49	17.23	44.72	54.00	9.28	Horizontal	Average
5725.00	26.17	17.23	43.40	54.00	10.60	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.27	16.80	51.07	78.20	27.13	Horizontal	Peak
5470.00	34.66	16.80	51.46	78.20	26.74	Vertical	Peak
5470.00	26.37	16.80	43.17	54.00	10.83	Horizontal	Average
5470.00	27.44	16.80	44.24	54.00	9.76	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	33.94	17.23	51.17	78.20	27.03	Horizontal	Peak
5725.00	34.64	17.23	51.87	78.20	26.33	Vertical	Peak
5725.00	26.73	17.23	43.96	54.00	10.04	Horizontal	Average
5725.00	27.07	17.23	44.30	54.00	9.70	Vertical	Average
Band 3 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.84	16.80	51.64	78.20	26.56	Horizontal	Peak
5470.00	34.65	16.80	51.45	78.20	26.75	Vertical	Peak
5470.00	25.77	16.80	42.57	54.00	11.43	Horizontal	Average
5470.00	26.91	16.80	43.71	54.00	10.29	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	35.09	17.23	52.32	78.20	25.88	Horizontal	Peak
5725.00	34.82	17.23	52.05	78.20	26.15	Vertical	Peak
5725.00	27.37	17.23	44.60	54.00	9.40	Horizontal	Average
5725.00	26.30	17.23	43.53	54.00	10.47	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.75	16.80	51.55	78.20	26.65	Horizontal	Peak
5470.00	34.84	16.80	51.64	78.20	26.56	Vertical	Peak
5470.00	26.60	16.80	43.40	54.00	10.60	Horizontal	Average
5470.00	27.33	16.80	44.13	54.00	9.87	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	33.99	17.23	51.22	78.20	26.98	Horizontal	Peak
5725.00	34.51	17.23	51.74	78.20	26.46	Vertical	Peak
5725.00	26.41	17.23	43.64	54.00	10.36	Horizontal	Average
5725.00	26.95	17.23	44.18	54.00	9.82	Vertical	Average
Band 3 – 802.11ac(HT80)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5470.00	34.25	16.80	51.05	78.20	27.15	Horizontal	Peak
5470.00	33.81	16.80	50.61	78.20	27.59	Vertical	Peak
5470.00	26.73	16.80	43.53	54.00	10.47	Horizontal	Average
5470.00	27.40	16.80	44.20	54.00	9.80	Vertical	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Polarity
5725.00	34.67	17.23	51.90	78.20	26.30	Horizontal	Peak
5725.00	34.49	17.23	51.72	78.20	26.48	Vertical	Peak
5725.00	26.79	17.23	44.02	54.00	9.98	Horizontal	Average
5725.00	26.60	17.23	43.83	54.00	10.17	Vertical	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 4:

Band 4 – 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	34.94	17.02	51.96	68.20	16.24	Horizontal
5700.00	34.29	17.13	51.42	105.20	53.78	Horizontal
5720.00	33.80	17.21	51.01	110.80	59.79	Horizontal
5725.00	34.38	17.23	51.61	122.20	70.59	Horizontal
5650.00	35.06	17.02	52.08	68.20	16.12	Vertical
5700.00	34.74	17.13	51.87	105.20	53.33	Vertical
5720.00	36.29	17.21	53.50	110.80	57.30	Vertical
5725.00	35.22	17.23	52.45	122.20	69.75	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	33.31	17.55	50.86	122.20	71.34	Horizontal
5855.00	34.34	17.55	51.89	110.80	58.91	Horizontal
5875.00	34.76	17.57	52.33	105.20	52.87	Horizontal
5925.00	34.44	17.37	51.81	68.20	16.39	Horizontal
5850.00	33.71	17.55	51.26	122.20	70.94	Vertical
5855.00	34.48	17.55	52.03	110.80	58.77	Vertical
5875.00	35.09	17.57	52.66	105.20	52.54	Vertical
5925.00	35.03	17.37	52.40	68.20	15.80	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 4 – 802.11n(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	35.36	17.02	52.38	68.20	15.82	Horizontal
5700.00	34.35	17.13	51.48	105.20	53.72	Horizontal
5720.00	33.42	17.21	50.63	110.80	60.17	Horizontal
5725.00	34.53	17.23	51.76	122.20	70.44	Horizontal
5650.00	34.92	17.02	51.94	68.20	16.26	Vertical
5700.00	34.77	17.13	51.90	105.20	53.30	Vertical
5720.00	35.83	17.21	53.04	110.80	57.76	Vertical
5725.00	35.51	17.23	52.74	122.20	69.46	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	33.64	17.55	51.19	122.20	71.01	Horizontal
5855.00	34.20	17.55	51.75	110.80	59.05	Horizontal
5875.00	34.88	17.57	52.45	105.20	52.75	Horizontal
5925.00	34.57	17.37	51.94	68.20	16.26	Horizontal
5850.00	33.71	17.55	51.26	122.20	70.94	Vertical
5855.00	34.58	17.55	52.13	110.80	58.67	Vertical
5875.00	35.11	17.57	52.68	105.20	52.52	Vertical
5925.00	34.66	17.37	52.03	68.20	16.17	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 4 – 802.11n(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	35.07	17.02	52.09	68.20	16.11	Horizontal
5700.00	34.45	17.13	51.58	105.20	53.62	Horizontal
5720.00	35.19	17.21	52.40	110.80	58.40	Horizontal
5725.00	35.51	17.23	52.74	122.20	69.46	Horizontal
5650.00	34.81	17.02	51.83	68.20	16.37	Vertical
5700.00	34.73	17.13	51.86	105.20	53.34	Vertical
5720.00	34.86	17.21	52.07	110.80	58.73	Vertical
5725.00	34.13	17.23	51.36	122.20	70.84	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	33.75	17.55	51.30	122.20	70.90	Horizontal
5855.00	33.38	17.55	50.93	110.80	59.87	Horizontal
5875.00	34.80	17.57	52.37	105.20	52.83	Horizontal
5925.00	34.02	17.37	51.39	68.20	16.81	Horizontal
5850.00	33.78	17.55	51.33	122.20	70.87	Vertical
5855.00	34.16	17.55	51.71	110.80	59.09	Vertical
5875.00	34.85	17.57	52.42	105.20	52.78	Vertical
5925.00	34.96	17.37	52.33	68.20	15.87	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

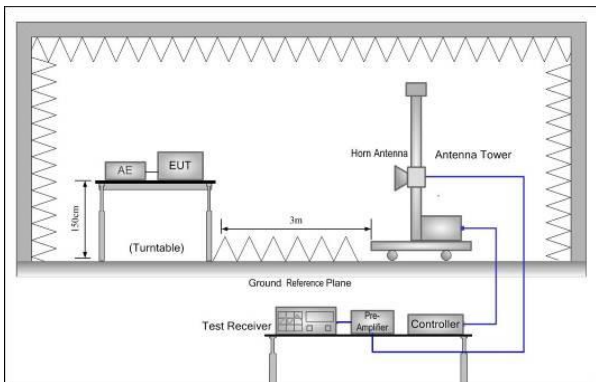
Band 4 – 802.11ac(HT20)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	35.83	17.02	52.85	68.20	15.35	Horizontal
5700.00	34.37	17.13	51.50	105.20	53.70	Horizontal
5720.00	33.07	17.21	50.28	110.80	60.52	Horizontal
5725.00	34.52	17.23	51.75	122.20	70.45	Horizontal
5650.00	35.39	17.02	52.41	68.20	15.79	Vertical
5700.00	34.32	17.13	51.45	105.20	53.75	Vertical
5720.00	35.67	17.21	52.88	110.80	57.92	Vertical
5725.00	35.12	17.23	52.35	122.20	69.85	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	33.16	17.55	50.71	122.20	71.49	Horizontal
5855.00	34.66	17.55	52.21	110.80	58.59	Horizontal
5875.00	34.77	17.57	52.34	105.20	52.86	Horizontal
5925.00	34.89	17.37	52.26	68.20	15.94	Horizontal
5850.00	33.56	17.55	51.11	122.20	71.09	Vertical
5855.00	34.81	17.55	52.36	110.80	58.44	Vertical
5875.00	35.26	17.57	52.83	105.20	52.37	Vertical
5925.00	34.77	17.37	52.14	68.20	16.06	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

Band 4 – 802.11ac(HT40)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	35.29	17.02	52.31	68.20	15.89	Horizontal
5700.00	34.46	17.13	51.59	105.20	53.61	Horizontal
5720.00	35.22	17.21	52.43	110.80	58.37	Horizontal
5725.00	35.26	17.23	52.49	122.20	69.71	Horizontal
5650.00	34.76	17.02	51.78	68.20	16.42	Vertical
5700.00	35.05	17.13	52.18	105.20	53.02	Vertical
5720.00	34.54	17.21	51.75	110.80	59.05	Vertical
5725.00	33.64	17.23	50.87	122.20	71.33	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	33.97	17.55	51.52	122.20	70.68	Horizontal
5855.00	33.74	17.55	51.29	110.80	59.51	Horizontal
5875.00	34.94	17.57	52.51	105.20	52.69	Horizontal
5925.00	33.54	17.37	50.91	68.20	17.29	Horizontal
5850.00	33.92	17.55	51.47	122.20	70.73	Vertical
5855.00	34.14	17.55	51.69	110.80	59.11	Vertical
5875.00	34.56	17.57	52.13	105.20	53.07	Vertical
5925.00	34.86	17.37	52.23	68.20	15.97	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

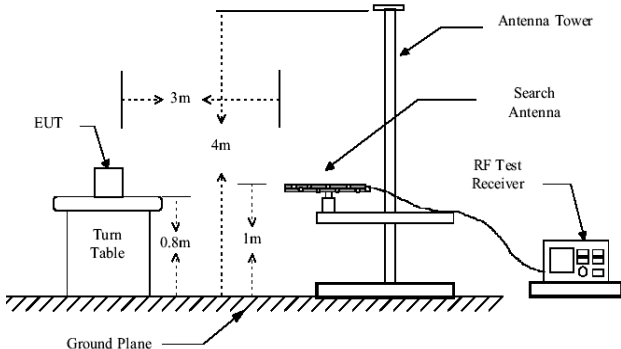
Band 4 – 802.11ac(HT80)						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5650.00	34.39	17.02	51.41	68.20	16.79	Horizontal
5700.00	34.55	17.13	51.68	105.20	53.52	Horizontal
5720.00	34.51	17.21	51.72	110.80	59.08	Horizontal
5725.00	34.18	17.23	51.41	122.20	70.79	Horizontal
5650.00	33.78	17.02	50.80	68.20	17.40	Vertical
5700.00	33.98	17.13	51.11	105.20	54.09	Vertical
5720.00	35.22	17.21	52.43	110.80	58.37	Vertical
5725.00	34.08	17.23	51.31	122.20	70.89	Vertical
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization
5850.00	34.99	17.55	52.54	122.20	69.66	Horizontal
5855.00	35.66	17.55	53.21	110.80	57.59	Horizontal
5875.00	35.34	17.57	52.91	105.20	52.29	Horizontal
5925.00	35.44	17.37	52.81	68.20	15.39	Horizontal
5850.00	34.21	17.55	51.76	122.20	70.44	Vertical
5855.00	33.66	17.55	51.21	110.80	59.59	Vertical
5875.00	34.57	17.57	52.14	105.20	53.06	Vertical
5925.00	33.66	17.37	51.03	68.20	17.17	Vertical
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.						

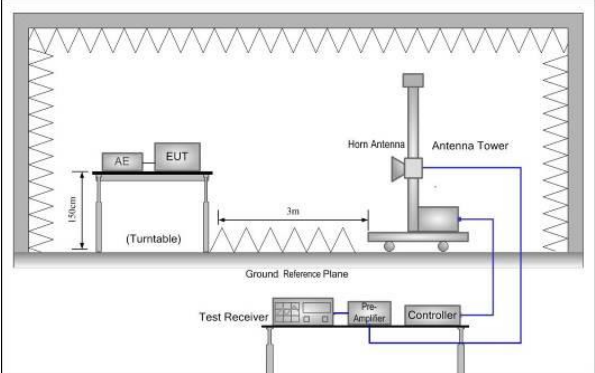
6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)				
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	74.00		Peak Value	
		54.00		Average Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed(Refer to section 6.6)				

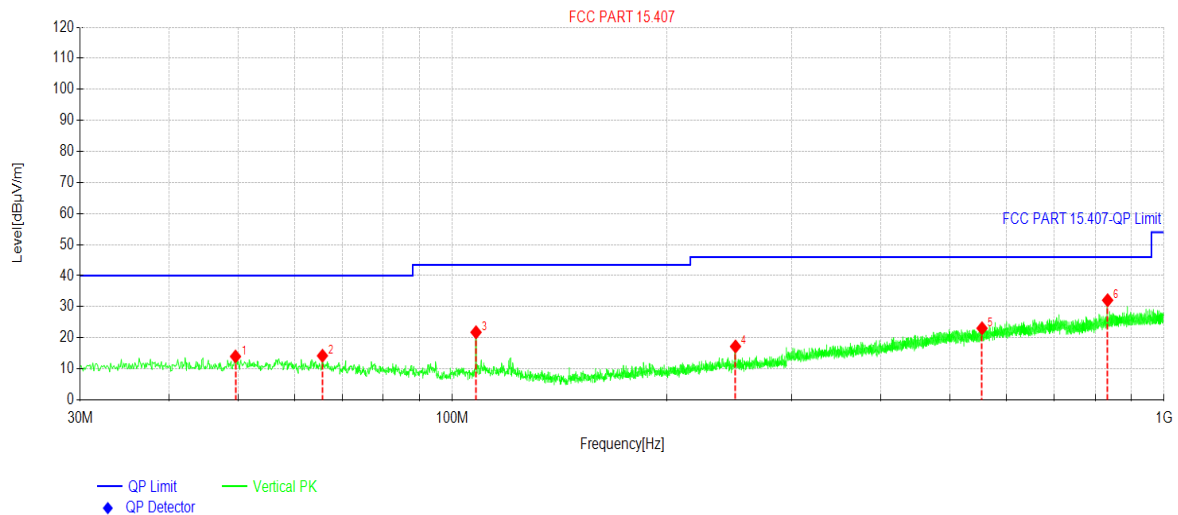
6.7.2 Unwanted Emissions out of the Restricted Bands

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		68.20		Peak Value
			54.00		Average Value
	Remark:				
	Above 1GHz limit:				
	$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIPR[dBm] = -27dBm$.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz				
					
	Above 1GHz				

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass(pre-scan adapter 1, adapter 2 and adapter 3, found adapter 1 was worse case mode, only reflects the worst mode)

Measurement Data (worst case):
Below 1GHz:
Adapter 1:

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

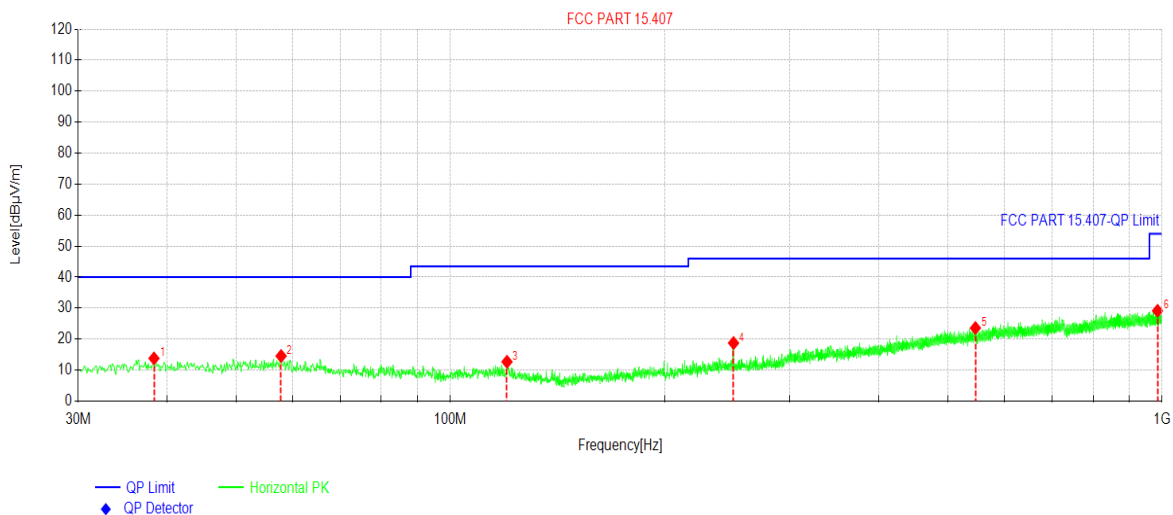


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	49.5960	28.71	13.97	-14.74	40.00	26.03	PK	Vertical
2	65.6996	30.02	14.21	-15.81	40.00	25.79	PK	Vertical
3	107.995	37.71	21.77	-15.94	43.50	21.73	PK	Vertical
4	250.018	30.99	17.20	-13.79	46.00	28.80	PK	Vertical
5	555.016	29.76	23.05	-6.71	46.00	22.95	PK	Vertical
6	833.143	34.02	32.08	-1.94	46.00	13.92	PK	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	Countertop Payment Terminal	Product Model:	A80
Test By:	Mike	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%



NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	38.3428	28.43	13.79	-14.64	40.00	26.21	PK	Horizontal
2	57.8418	29.40	14.55	-14.85	40.00	25.45	PK	Horizontal
3	120.122	28.73	12.69	-16.04	43.50	30.81	PK	Horizontal
4	250.018	32.53	18.74	-13.79	46.00	27.26	PK	Horizontal
5	546.673	30.44	23.58	-6.86	46.00	22.42	PK	Horizontal
6	985.545	29.94	29.15	-0.79	54.00	24.85	PK	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

Band 1:

Band 1 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10360.00	53.04	5.48	58.52	68.20	9.68	Vertical	Peak
10360.00	53.10	5.48	58.58	68.20	9.62	Horizontal	Peak
10360.00	45.03	5.48	50.51	54.00	3.49	Vertical	Average
10360.00	45.71	5.48	51.19	54.00	2.81	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	53.08	5.31	58.39	68.20	9.81	Vertical	Peak
10400.00	53.05	5.31	58.36	68.20	9.84	Horizontal	Peak
10400.00	45.06	5.31	50.37	54.00	3.63	Vertical	Average
10400.00	46.13	5.31	51.44	54.00	2.56	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	53.20	5.98	59.18	68.20	9.02	Vertical	Peak
10480.00	53.02	5.98	59.00	68.20	9.20	Horizontal	Peak
10480.00	45.29	5.98	51.27	54.00	2.73	Vertical	Average
10480.00	46.57	5.98	52.55	54.00	1.45	Horizontal	Average
Band 1 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10360.00	52.88	5.48	58.36	68.20	9.84	Vertical	Peak
10360.00	53.12	5.48	58.60	68.20	9.60	Horizontal	Peak
10360.00	44.85	5.48	50.33	54.00	3.67	Vertical	Average
10360.00	45.92	5.48	51.40	54.00	2.60	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	53.16	5.31	58.47	68.20	9.73	Vertical	Peak
10400.00	53.42	5.31	58.73	68.20	9.47	Horizontal	Peak
10400.00	44.89	5.31	50.20	54.00	3.80	Vertical	Average
10400.00	45.72	5.31	51.03	54.00	2.97	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	53.54	5.98	59.52	68.20	8.68	Vertical	Peak
10480.00	53.76	5.98	59.74	68.20	8.46	Horizontal	Peak
10480.00	44.49	5.98	50.47	54.00	3.53	Vertical	Average
10480.00	45.59	5.98	51.57	54.00	2.43	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 1 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10380.00	54.59	5.39	59.98	68.20	8.22	Vertical	Peak
10380.00	54.04	5.39	59.43	68.20	8.77	Horizontal	Peak
10380.00	44.50	5.39	49.89	54.00	4.11	Vertical	Average
10380.00	44.63	5.39	50.02	54.00	3.98	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10460.00	54.89	5.81	60.70	68.20	7.50	Vertical	Peak
10460.00	54.16	5.81	59.97	68.20	8.23	Horizontal	Peak
10460.00	44.90	5.81	50.71	54.00	3.29	Vertical	Average
10460.00	44.23	5.81	50.04	54.00	3.96	Horizontal	Average
Band 1 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10360.00	53.16	5.48	58.64	68.20	9.56	Vertical	Peak
10360.00	53.22	5.48	58.70	68.20	9.50	Horizontal	Peak
10360.00	45.23	5.48	50.71	54.00	3.29	Vertical	Average
10360.00	45.50	5.48	50.98	54.00	3.02	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10400.00	53.99	5.31	59.30	68.20	8.90	Vertical	Peak
10400.00	53.62	5.31	58.93	68.20	9.27	Horizontal	Peak
10400.00	44.16	5.31	49.47	54.00	4.53	Vertical	Average
10400.00	45.10	5.31	50.41	54.00	3.59	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10480.00	54.35	5.98	60.33	68.20	7.87	Vertical	Peak
10480.00	53.89	5.98	59.87	68.20	8.33	Horizontal	Peak
10480.00	44.23	5.98	50.21	54.00	3.79	Vertical	Average
10480.00	44.96	5.98	50.94	54.00	3.06	Horizontal	Average
Remark:							
1. Final Level = Receiver Read level + Factor.							
2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 1 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10380.00	54.77	5.39	60.16	68.20	8.04	Vertical	Peak
10380.00	54.48	5.39	59.87	68.20	8.33	Horizontal	Peak
10380.00	44.21	5.39	49.60	54.00	4.40	Vertical	Average
10380.00	44.81	5.39	50.20	54.00	3.80	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10460.00	54.69	5.81	60.50	68.20	7.70	Vertical	Peak
10460.00	54.15	5.81	59.96	68.20	8.24	Horizontal	Peak
10460.00	43.95	5.81	49.76	54.00	4.24	Vertical	Average
10460.00	45.07	5.81	50.88	54.00	3.12	Horizontal	Average
Band 1 – 802.11ac(HT80)							
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10420.00	54.33	5.48	59.81	68.20	8.39	Vertical	Peak
10420.00	53.73	5.48	59.21	68.20	8.99	Horizontal	Peak
10420.00	44.43	5.48	49.91	54.00	4.09	Vertical	Average
10420.00	44.90	5.48	50.38	54.00	3.62	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2:

Band 2 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10520.00	53.91	6.21	60.12	68.20	8.08	Vertical	Peak
10520.00	51.80	6.21	58.01	68.20	10.19	Horizontal	Peak
10520.00	42.59	6.21	48.80	54.00	5.20	Vertical	Average
10520.00	42.67	6.21	48.88	54.00	5.12	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10600.00	53.78	6.47	60.25	68.20	7.95	Vertical	Peak
10600.00	51.59	6.47	58.06	68.20	10.14	Horizontal	Peak
10600.00	42.98	6.47	49.45	54.00	4.55	Vertical	Average
10600.00	42.46	6.47	48.93	54.00	5.07	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10640.00	53.90	6.62	60.52	68.20	7.68	Vertical	Peak
10640.00	51.11	6.62	57.73	68.20	10.47	Horizontal	Peak
10640.00	42.82	6.62	49.44	54.00	4.56	Vertical	Average
10640.00	42.77	6.62	49.39	54.00	4.61	Horizontal	Average
Band 2 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10520.00	54.14	6.21	60.35	68.20	7.85	Vertical	Peak
10520.00	50.80	6.21	57.01	68.20	11.19	Horizontal	Peak
10520.00	42.94	6.21	49.15	54.00	4.85	Vertical	Average
10520.00	42.46	6.21	48.67	54.00	5.33	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10600.00	54.61	6.47	61.08	68.20	7.12	Vertical	Peak
10600.00	50.76	6.47	57.23	68.20	10.97	Horizontal	Peak
10600.00	43.16	6.47	49.63	54.00	4.37	Vertical	Average
10600.00	42.63	6.47	49.10	54.00	4.90	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10640.00	54.27	6.62	60.89	68.20	7.31	Vertical	Peak
10640.00	51.23	6.62	57.85	68.20	10.35	Horizontal	Peak
10640.00	43.63	6.62	50.25	54.00	3.75	Vertical	Average
10640.00	43.10	6.62	49.72	54.00	4.28	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10540.00	53.55	6.27	59.82	68.20	8.38	Vertical	Peak
10540.00	51.61	6.27	57.88	68.20	10.32	Horizontal	Peak
10540.00	43.26	6.27	49.53	54.00	4.47	Vertical	Average
10540.00	42.12	6.27	48.39	54.00	5.61	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10620.00	53.71	6.55	60.26	68.20	7.94	Vertical	Peak
10620.00	51.47	6.55	58.02	68.20	10.18	Horizontal	Peak
10620.00	43.05	6.55	49.60	54.00	4.40	Vertical	Average
10620.00	42.30	6.55	48.85	54.00	5.15	Horizontal	Average
Band 2 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10520.00	54.27	6.21	60.48	68.20	7.72	Vertical	Peak
10520.00	51.16	6.21	57.37	68.20	10.83	Horizontal	Peak
10520.00	43.38	6.21	49.59	54.00	4.41	Vertical	Average
10520.00	42.60	6.21	48.81	54.00	5.19	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10600.00	54.67	6.47	61.14	68.20	7.06	Vertical	Peak
10600.00	50.83	6.47	57.30	68.20	10.90	Horizontal	Peak
10600.00	43.11	6.47	49.58	54.00	4.42	Vertical	Average
10600.00	42.66	6.47	49.13	54.00	4.87	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10640.00	54.30	6.62	60.92	68.20	7.28	Vertical	Peak
10640.00	50.80	6.62	57.42	68.20	10.78	Horizontal	Peak
10640.00	43.17	6.62	49.79	54.00	4.21	Vertical	Average
10640.00	42.49	6.62	49.11	54.00	4.89	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 2 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10540.00	54.13	6.27	60.40	68.20	7.80	Vertical	Peak
10540.00	51.12	6.27	57.39	68.20	10.81	Horizontal	Peak
10540.00	43.14	6.27	49.41	54.00	4.59	Vertical	Average
10540.00	42.09	6.27	48.36	54.00	5.64	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10620.00	53.70	6.55	60.25	68.20	7.95	Vertical	Peak
10620.00	51.14	6.55	57.69	68.20	10.51	Horizontal	Peak
10620.00	43.36	6.55	49.91	54.00	4.09	Vertical	Average
10620.00	42.21	6.55	48.76	54.00	5.24	Horizontal	Average
Band 2 – 802.11ac(HT80)							
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
10580.00	54.42	6.41	60.83	68.20	7.37	Vertical	Peak
10580.00	51.08	6.41	57.49	68.20	10.71	Horizontal	Peak
10580.00	42.80	6.41	49.21	54.00	4.79	Vertical	Average
10580.00	42.08	6.41	48.49	54.00	5.51	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3:

Band 3 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11000.00	53.45	6.99	60.44	68.20	7.76	Vertical	Peak
11000.00	52.48	6.99	59.47	68.20	8.73	Horizontal	Peak
11000.00	41.47	6.99	48.46	54.00	5.54	Vertical	Average
11000.00	41.06	6.99	48.05	54.00	5.95	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11200.00	53.06	6.95	60.01	68.20	8.19	Vertical	Peak
11200.00	52.00	6.95	58.95	68.20	9.25	Horizontal	Peak
11200.00	41.05	6.95	48.00	54.00	6.00	Vertical	Average
11200.00	41.04	6.95	47.99	54.00	6.01	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11400.00	52.71	6.78	59.49	68.20	8.71	Vertical	Peak
11400.00	52.14	6.78	58.92	68.20	9.28	Horizontal	Peak
11400.00	41.30	6.78	48.08	54.00	5.92	Vertical	Average
11400.00	41.48	6.78	48.26	54.00	5.74	Horizontal	Average
Band 3 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11000.00	52.96	6.99	59.95	68.20	8.25	Vertical	Peak
11000.00	52.42	6.99	59.41	68.20	8.79	Horizontal	Peak
11000.00	41.69	6.99	48.68	54.00	5.32	Vertical	Average
11000.00	41.22	6.99	48.21	54.00	5.79	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11200.00	52.67	6.95	59.62	68.20	8.58	Vertical	Peak
11200.00	52.41	6.95	59.36	68.20	8.84	Horizontal	Peak
11200.00	42.05	6.95	49.00	54.00	5.00	Vertical	Average
11200.00	40.72	6.95	47.67	54.00	6.33	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11400.00	52.28	6.78	59.06	68.20	9.14	Vertical	Peak
11400.00	52.13	6.78	58.91	68.20	9.29	Horizontal	Peak
11400.00	41.98	6.78	48.76	54.00	5.24	Vertical	Average
11400.00	40.87	6.78	47.65	54.00	6.35	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11020.00	51.09	6.94	58.03	68.20	10.17	Vertical	Peak
11020.00	52.13	6.94	59.07	68.20	9.13	Horizontal	Peak
11020.00	41.20	6.94	48.14	54.00	5.86	Vertical	Average
11020.00	41.04	6.94	47.98	54.00	6.02	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11340.00	51.43	7.30	58.73	68.20	9.47	Vertical	Peak
11340.00	51.87	7.30	59.17	68.20	9.03	Horizontal	Peak
11340.00	40.80	7.30	48.10	54.00	5.90	Vertical	Average
11340.00	40.72	7.30	48.02	54.00	5.98	Horizontal	Average
Band 3 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11000.00	51.90	6.99	58.89	68.20	9.31	Vertical	Peak
11000.00	52.04	6.99	59.03	68.20	9.17	Horizontal	Peak
11000.00	41.52	6.99	48.51	54.00	5.49	Vertical	Average
11000.00	41.23	6.99	48.22	54.00	5.78	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11200.00	51.54	6.95	58.49	68.20	9.71	Vertical	Peak
11200.00	52.31	6.95	59.26	68.20	8.94	Horizontal	Peak
11200.00	41.43	6.95	48.38	54.00	5.62	Vertical	Average
11200.00	40.73	6.95	47.68	54.00	6.32	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11400.00	51.43	6.78	58.21	68.20	9.99	Vertical	Peak
11400.00	52.38	6.78	59.16	68.20	9.04	Horizontal	Peak
11400.00	41.49	6.78	48.27	54.00	5.73	Vertical	Average
11400.00	41.22	6.78	48.00	54.00	6.00	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 3 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11020.00	51.55	6.94	58.49	68.20	9.71	Vertical	Peak
11020.00	52.29	6.94	59.23	68.20	8.97	Horizontal	Peak
11020.00	41.10	6.94	48.04	54.00	5.96	Vertical	Average
11020.00	40.90	6.94	47.84	54.00	6.16	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11340.00	51.50	7.30	58.80	68.20	9.40	Vertical	Peak
11340.00	51.80	7.30	59.10	68.20	9.10	Horizontal	Peak
11340.00	41.61	7.30	48.91	54.00	5.09	Vertical	Average
11340.00	41.11	7.30	48.41	54.00	5.59	Horizontal	Average
Band 3 – 802.11ac(HT80)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11060.00	51.97	6.83	58.80	68.20	9.40	Vertical	Peak
11060.00	51.73	6.83	58.56	68.20	9.64	Horizontal	Peak
11060.00	41.51	6.83	48.34	54.00	5.66	Vertical	Average
11060.00	40.83	6.83	47.66	54.00	6.34	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11220.00	51.70	7.09	58.79	68.20	9.41	Vertical	Peak
11220.00	51.93	7.09	59.02	68.20	9.18	Horizontal	Peak
11220.00	41.72	7.09	48.81	54.00	5.19	Vertical	Average
11220.00	40.73	7.09	47.82	54.00	6.18	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

Band 4:

Band 4 – 802.11a							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11490.00	51.09	7.21	58.30	74.00	15.70	Vertical	Peak
11490.00	51.99	7.21	59.20	74.00	14.80	Horizontal	Peak
11490.00	41.30	7.21	48.51	54.00	5.49	Vertical	Average
11490.00	41.35	7.21	48.56	54.00	5.44	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11570.00	51.20	6.88	58.08	74.00	15.92	Vertical	Peak
11570.00	51.78	6.88	58.66	74.00	15.34	Horizontal	Peak
11570.00	41.41	6.88	48.29	54.00	5.71	Vertical	Average
11570.00	41.12	6.88	48.00	54.00	6.00	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11650.00	51.26	7.09	58.35	74.00	15.65	Vertical	Peak
11650.00	51.84	7.09	58.93	74.00	15.07	Horizontal	Peak
11650.00	41.27	7.09	48.36	54.00	5.64	Vertical	Average
11650.00	40.67	7.09	47.76	54.00	6.24	Horizontal	Average
Band 4 – 802.11n(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11490.00	51.03	7.21	58.24	74.00	15.76	Vertical	Peak
11490.00	51.88	7.21	59.09	74.00	14.91	Horizontal	Peak
11490.00	41.50	7.21	48.71	54.00	5.29	Vertical	Average
11490.00	40.50	7.21	47.71	54.00	6.29	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11570.00	51.14	6.88	58.02	74.00	15.98	Vertical	Peak
11570.00	52.04	6.88	58.92	74.00	15.08	Horizontal	Peak
11570.00	41.00	6.88	47.88	54.00	6.12	Vertical	Average
11570.00	40.90	6.88	47.78	54.00	6.22	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11650.00	50.95	7.09	58.04	74.00	15.96	Vertical	Peak
11650.00	51.91	7.09	59.00	74.00	15.00	Horizontal	Peak
11650.00	41.43	7.09	48.52	54.00	5.48	Vertical	Average
11650.00	40.74	7.09	47.83	54.00	6.17	Horizontal	Average

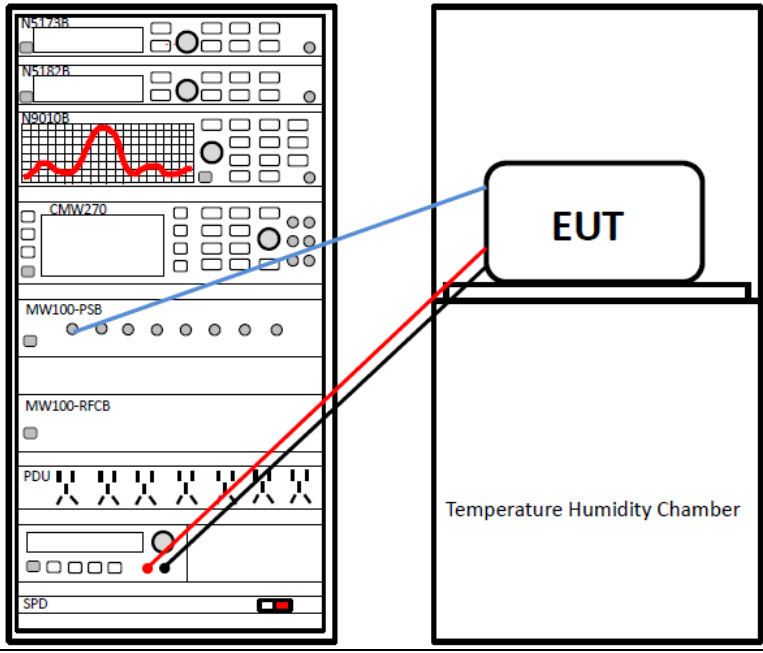
Remark:

1. Final Level = Receiver Read level + Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11510.00	52.01	7.20	59.21	74.00	14.79	Vertical	Peak
11510.00	51.09	7.20	58.29	74.00	15.71	Horizontal	Peak
11510.00	42.48	7.20	49.68	54.00	4.32	Vertical	Average
11510.00	41.27	7.20	48.47	54.00	5.53	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11590.00	51.52	6.77	58.29	74.00	15.71	Vertical	Peak
11590.00	50.80	6.77	57.57	74.00	16.43	Horizontal	Peak
11590.00	42.93	6.77	49.70	54.00	4.30	Vertical	Average
11590.00	41.14	6.77	47.91	54.00	6.09	Horizontal	Average
Band 4 – 802.11ac(HT20)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11490.00	50.52	7.21	57.73	74.00	16.27	Vertical	Peak
11490.00	51.66	7.21	58.87	74.00	15.13	Horizontal	Peak
11490.00	41.65	7.21	48.86	54.00	5.14	Vertical	Average
11490.00	40.86	7.21	48.07	54.00	5.93	Horizontal	Average
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11570.00	50.65	6.88	57.53	74.00	16.47	Vertical	Peak
11570.00	51.38	6.88	58.26	74.00	15.74	Horizontal	Peak
11570.00	41.98	6.88	48.86	54.00	5.14	Vertical	Average
11570.00	40.60	6.88	47.48	54.00	6.52	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11650.00	50.93	7.09	58.02	74.00	15.98	Vertical	Peak
11650.00	51.28	7.09	58.37	74.00	15.63	Horizontal	Peak
11650.00	42.43	7.09	49.52	54.00	4.48	Vertical	Average
11650.00	40.65	7.09	47.74	54.00	6.26	Horizontal	Average
Remark: 1. Final Level = Receiver Read level + Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.							

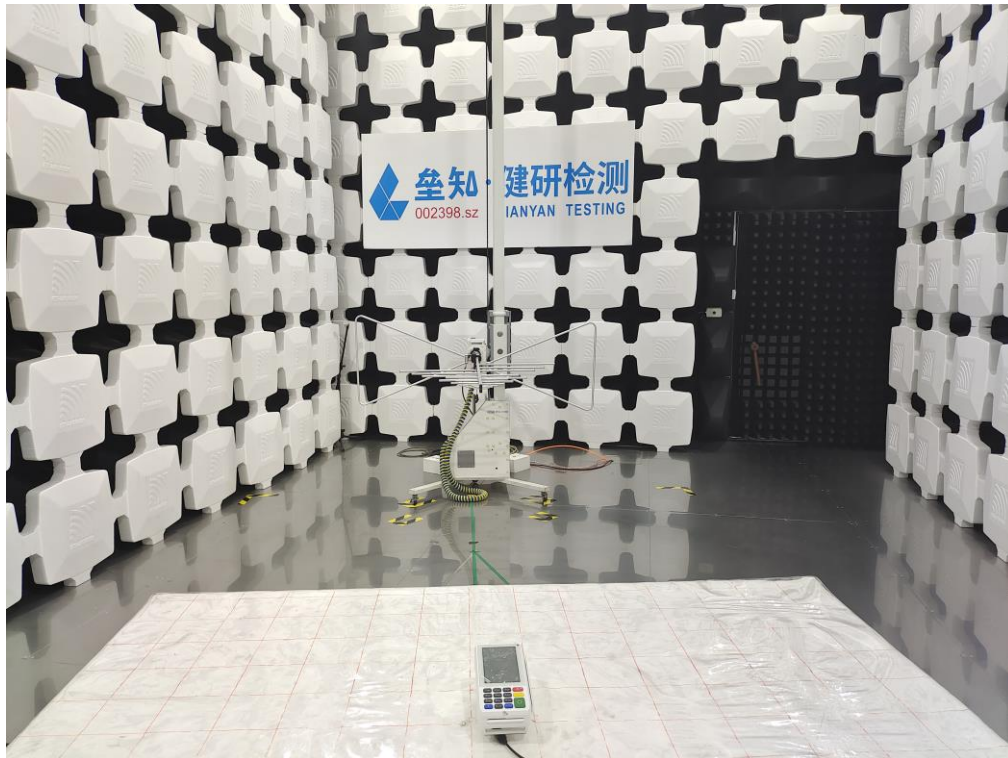
Band 4 – 802.11ac(HT40)							
Test channel: Lowest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11510.00	51.67	7.20	58.87	74.00	15.13	Vertical	Peak
11510.00	50.63	7.20	57.83	74.00	16.17	Horizontal	Peak
11510.00	42.49	7.20	49.69	54.00	4.31	Vertical	Average
11510.00	40.89	7.20	48.09	54.00	5.91	Horizontal	Average
Test channel: Highest channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11590.00	51.89	6.77	58.66	74.00	15.34	Vertical	Peak
11590.00	50.56	6.77	57.33	74.00	16.67	Horizontal	Peak
11590.00	42.54	6.77	49.31	54.00	4.69	Vertical	Average
11590.00	40.79	6.77	47.56	54.00	6.44	Horizontal	Average
Band 4 – 802.11ac(HT80)							
Test channel: Middle channel							
Frequency (MHz)	Read Level (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin [dB]	Polarization	Trace
11550.00	51.24	6.99	58.23	74.00	15.77	Vertical	Peak
11550.00	50.87	6.99	57.86	74.00	16.14	Horizontal	Peak
11550.00	42.20	6.99	49.19	54.00	4.81	Vertical	Average
11550.00	40.52	6.99	47.51	54.00	6.49	Horizontal	Average
Remark: 1. <i>Final Level = Receiver Read level + Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>							

6.8 Frequency stability

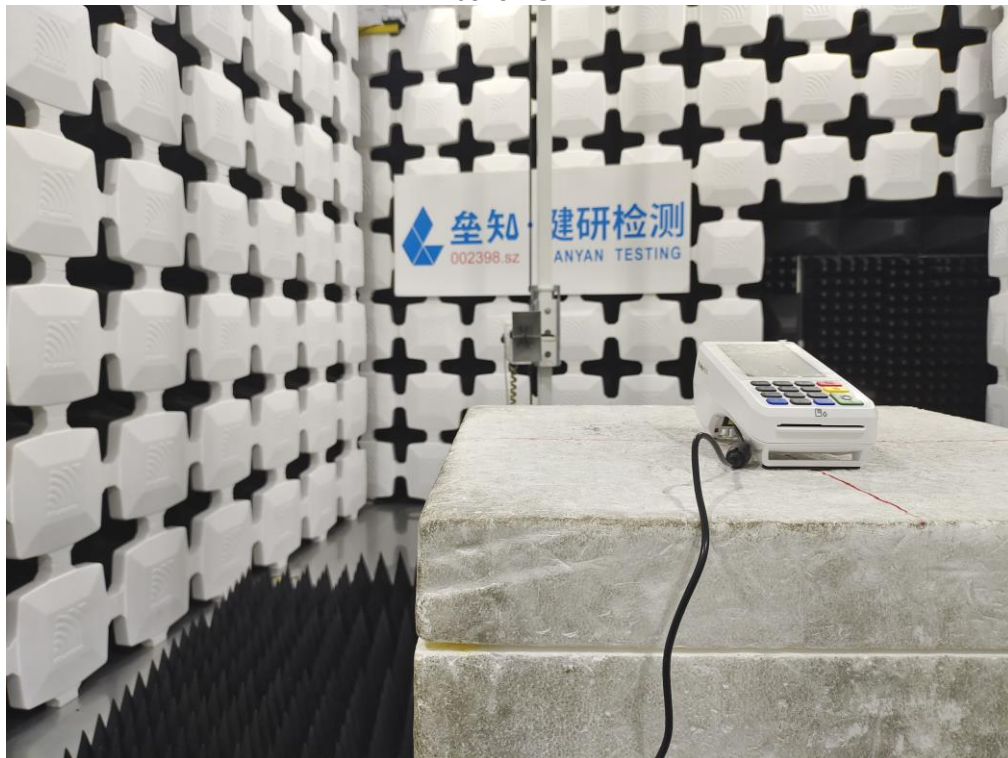
Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	
Test procedure:	1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to Appendix A - 5G WIFI

7 Test Setup Photo

Radiated Spurious Emission
Below 1GHz



Above 1GHz



Conducted Emission

8 EUT Constructional Details

Reference to the EUT Photos.

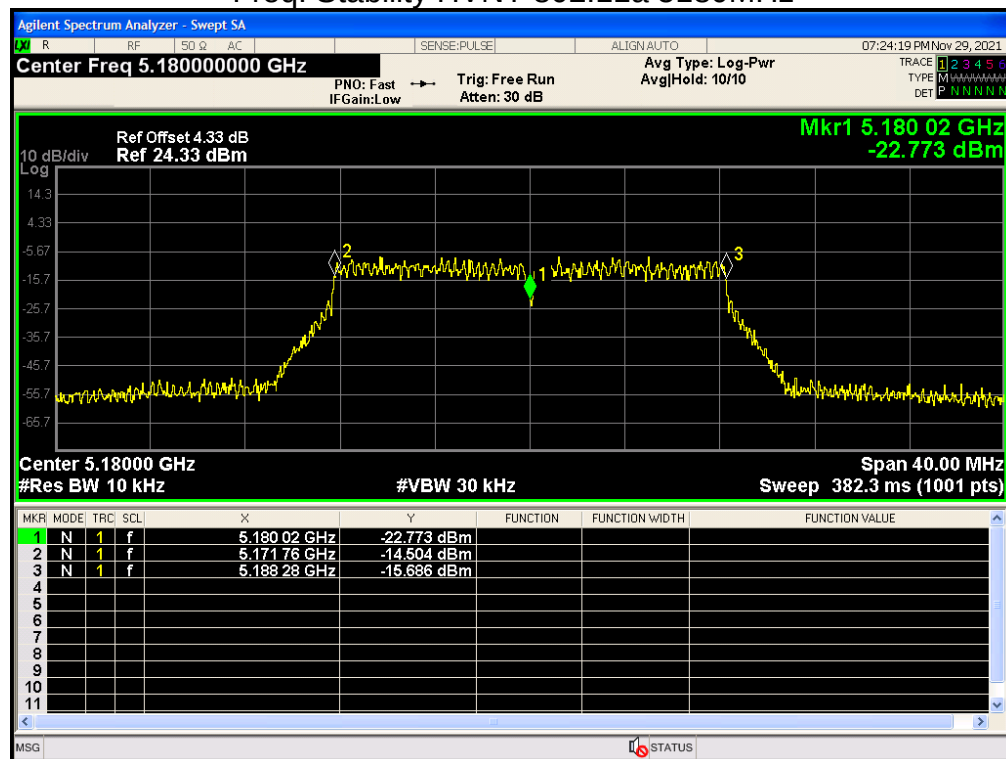
Appendix A – 5.2G Wi-Fi

Frequency Stability

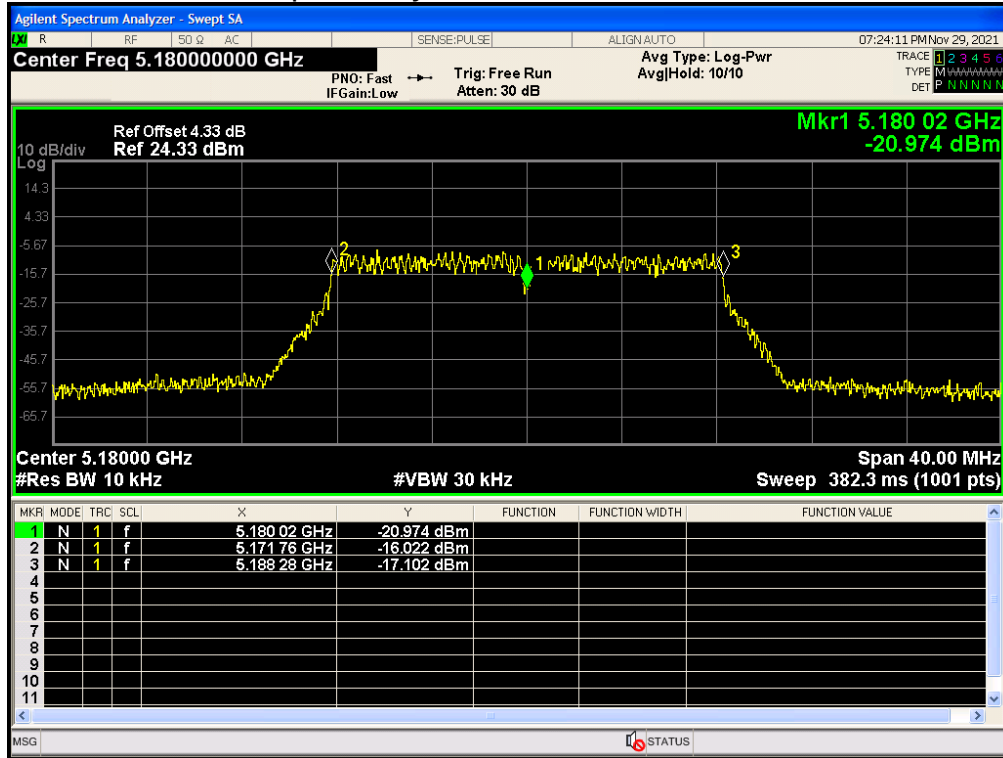
Condition	Mode	Frequency (MHz)	Measured Frequency (MHz)	Deviation (ppm)	Limit	Verdict
HVNT	802.11a	5180	5180.02	3.86	within the band	Pass
LVNT	802.11a	5180	5180.02	3.86		Pass
NVHT	802.11a	5180	5180.02	3.86		Pass
NVLT	802.11a	5180	5180	0		Pass
NVNT	802.11a	5180	5180	0		Pass
HVNT	802.11ac80	5210	5210	0		Pass
LVNT	802.11ac80	5210	5210	0		Pass
NVHT	802.11ac80	5210	5210	0		Pass
NVLT	802.11ac80	5210	5210	0		Pass
NVNT	802.11ac80	5210	5210	0		Pass
HVNT	802.11n(HT40)	5190	5190	0		Pass
LVNT	802.11n(HT40)	5190	5190	0		Pass
NVHT	802.11n(HT40)	5190	5190	0		Pass
NVLT	802.11n(HT40)	5190	5190	0		Pass
NVNT	802.11n(HT40)	5190	5190	0		Pass

Remark: "NTNV" means Normal Temperature Normal Voltage, "HVNT" means High Voltage Normal Temperature, "LVNT" means Low Voltage Normal Temperature, "NVHT" means Normal Voltage High Temperature, "NVLT" means Normal Voltage Low Temperature

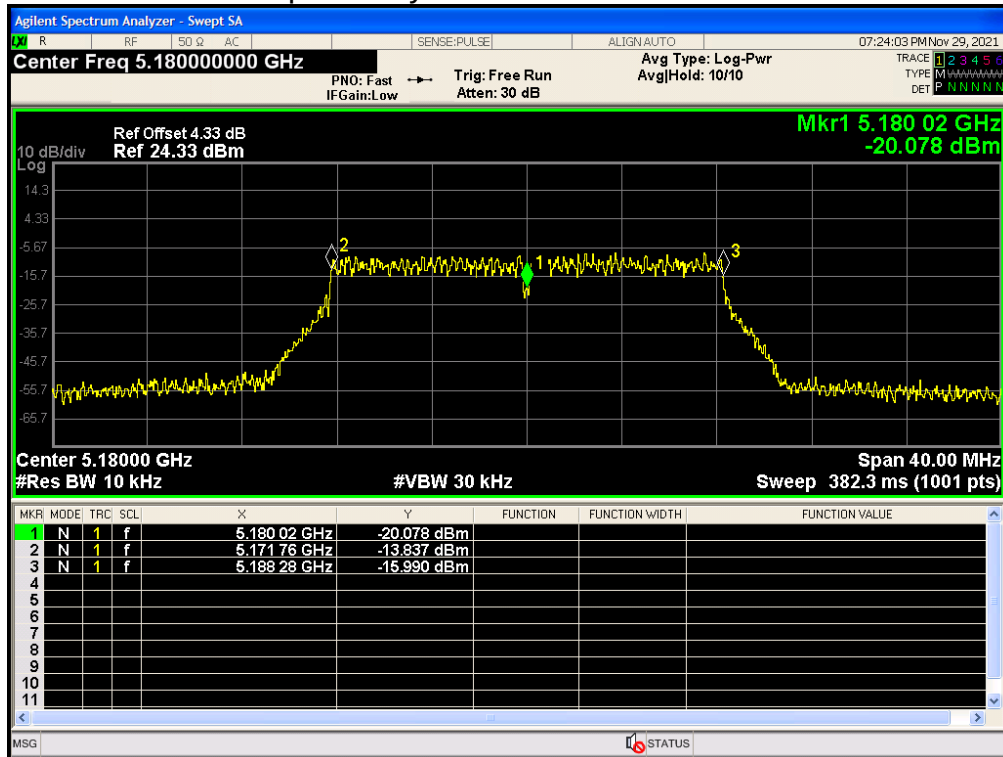
Freq. Stability HVNT 802.11a 5180MHz



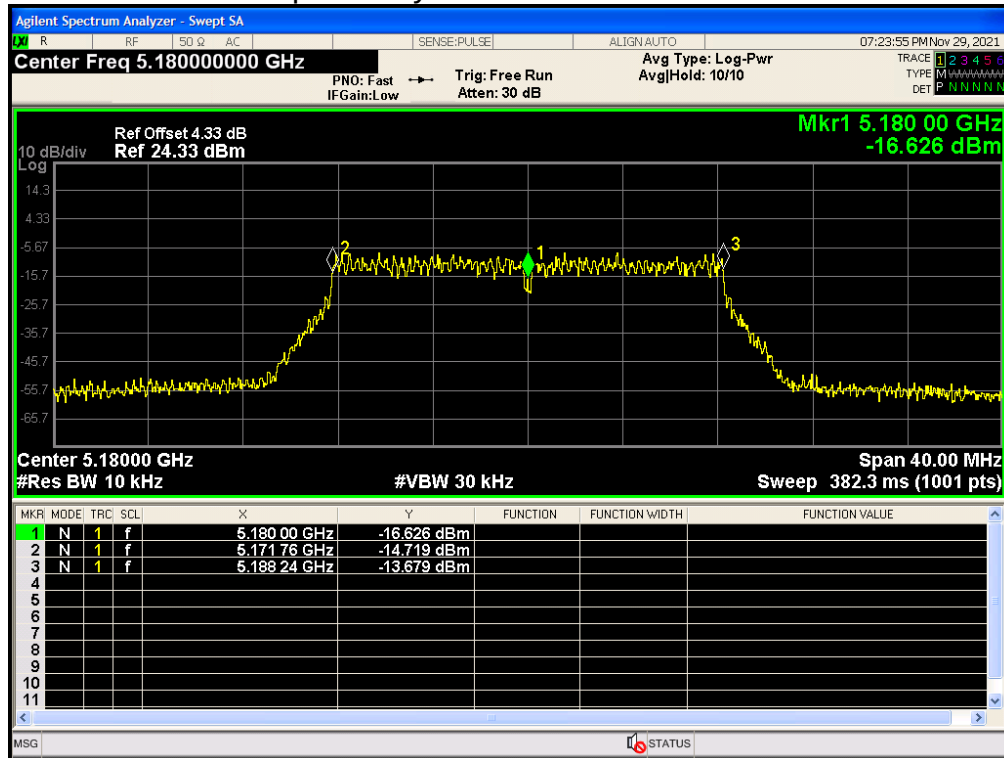
Freq. Stability LVNT 802.11a 5180MHz



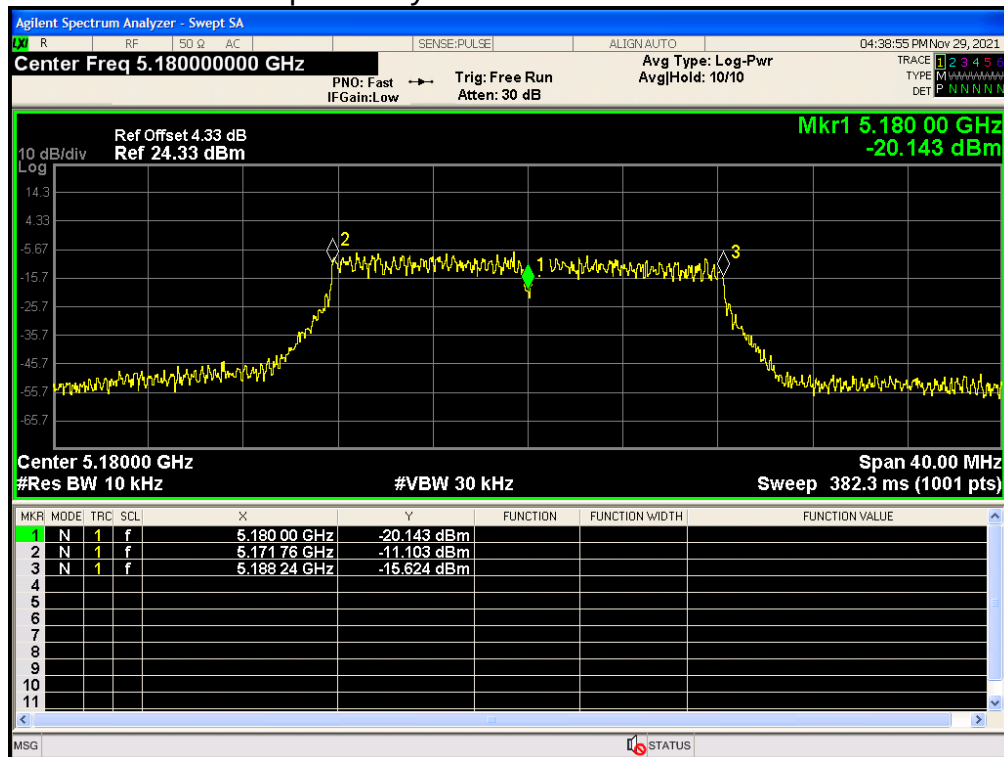
Freq. Stability NVHT 802.11a 5180MHz



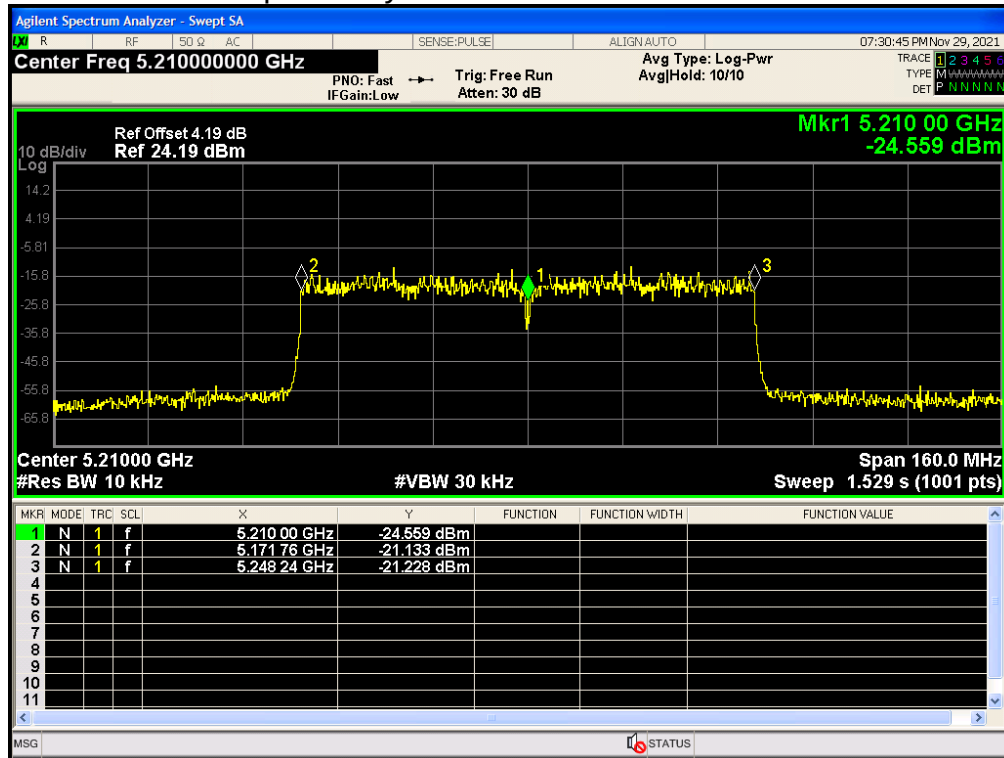
Freq. Stability NVLT 802.11a 5180MHz



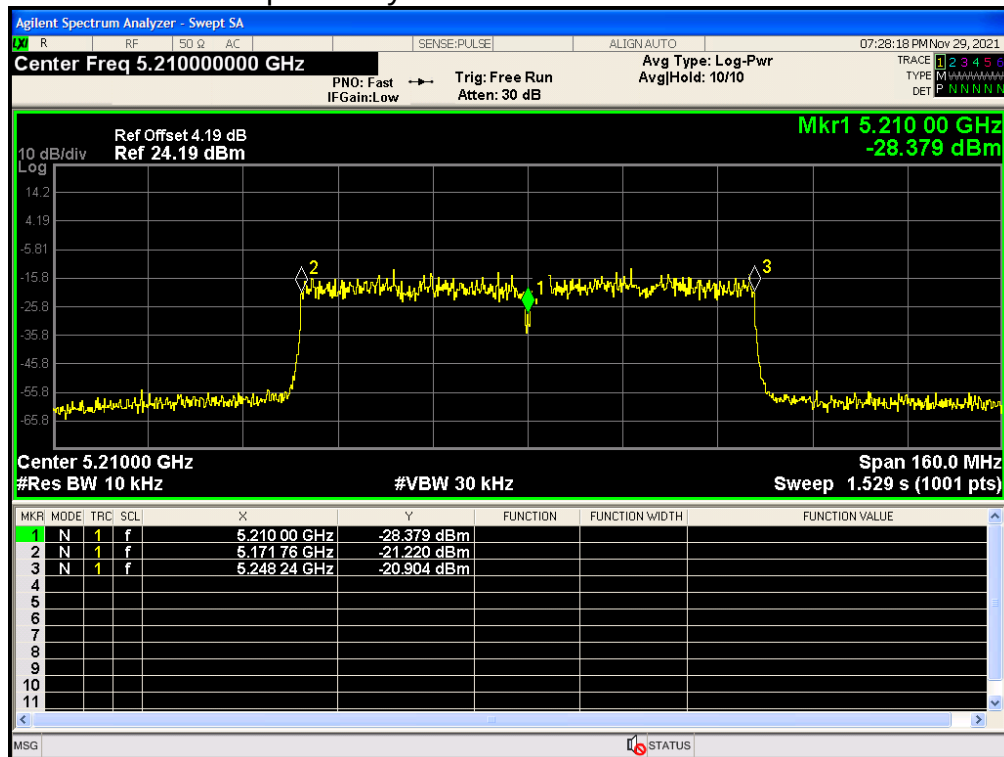
Freq. Stability NVNT 802.11a 5180MHz



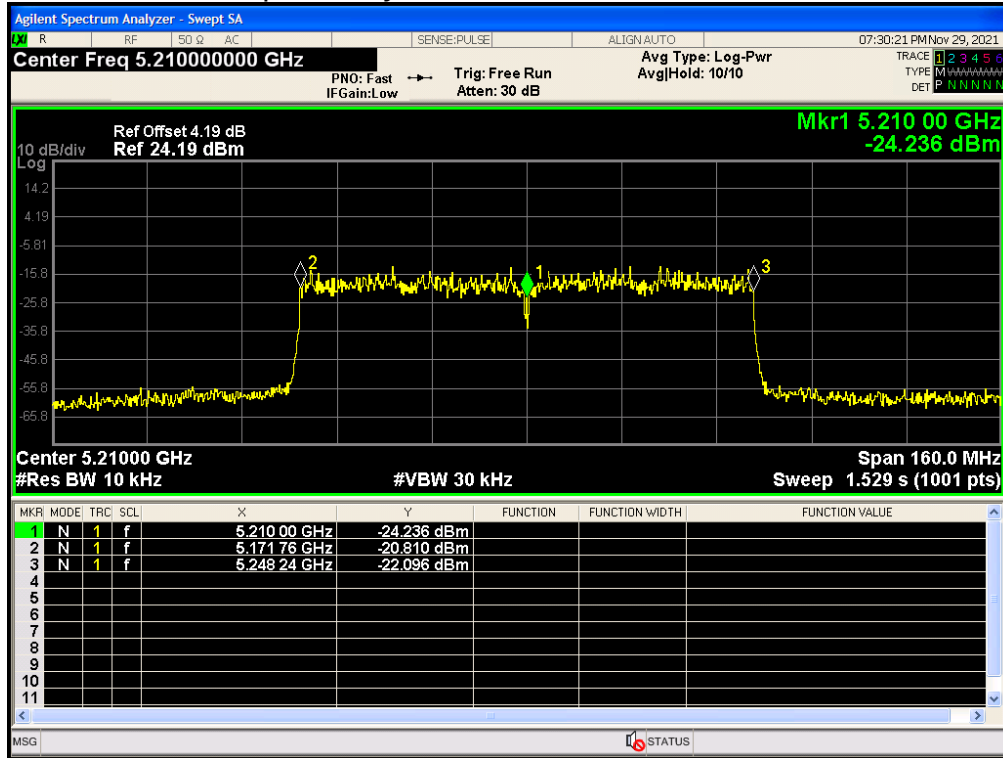
Freq. Stability HVNT 802.11ac80 5210MHz



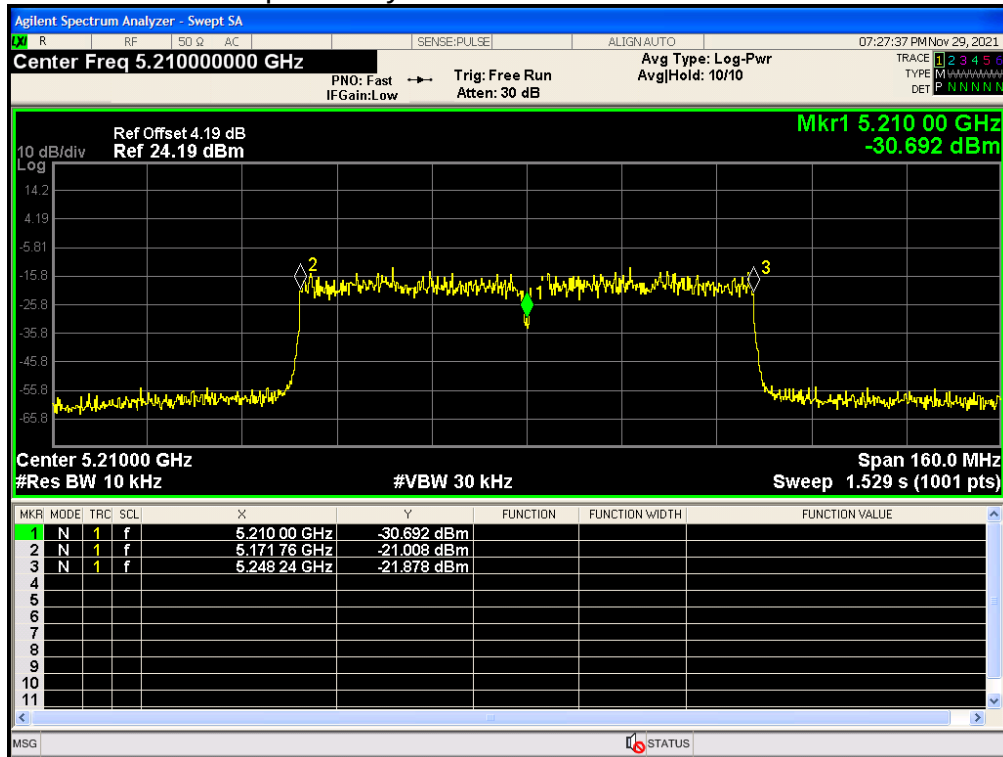
Freq. Stability LVNT 802.11ac80 5210MHz



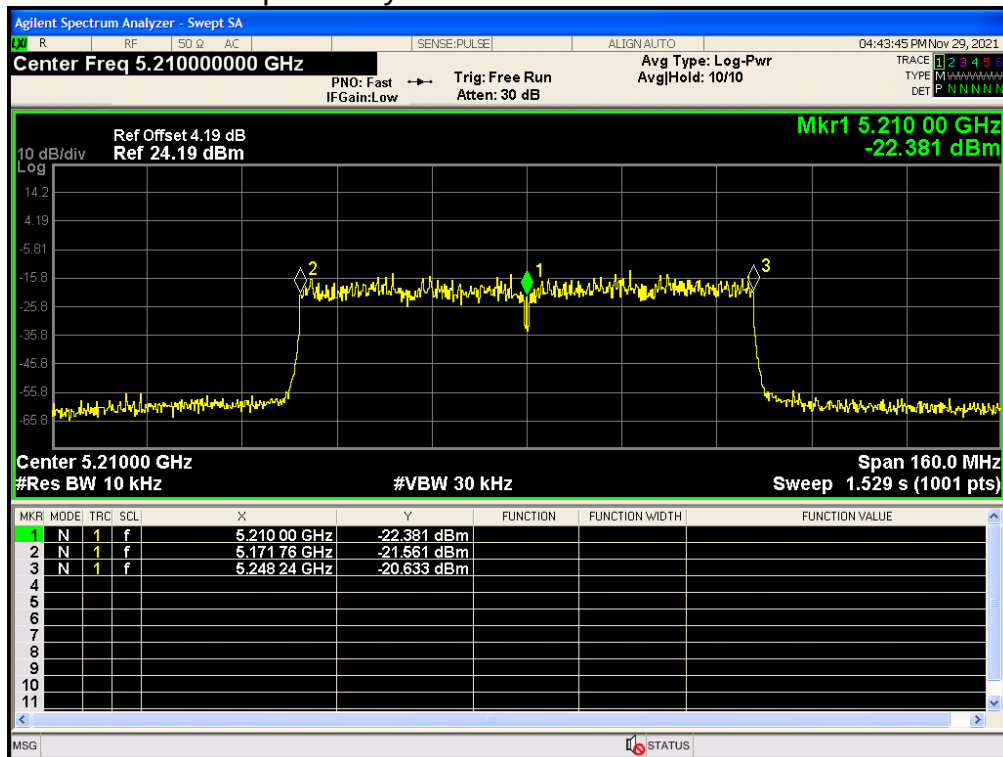
Freq. Stability NVHT 802.11ac80 5210MHz



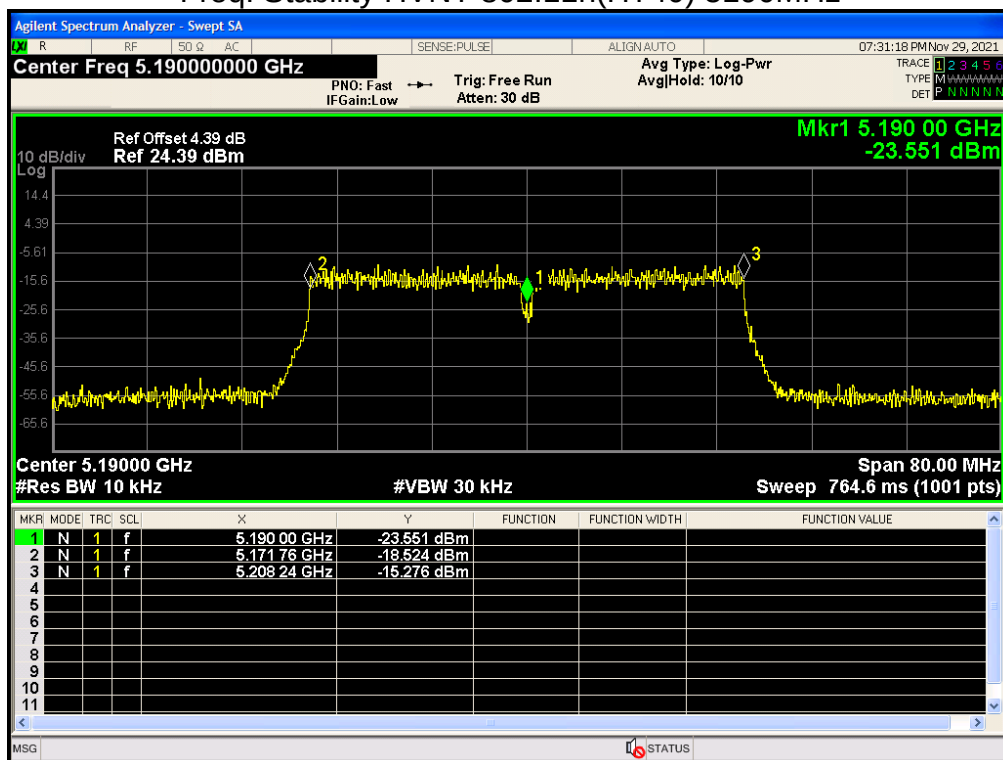
Freq. Stability NVLT 802.11ac80 5210MHz



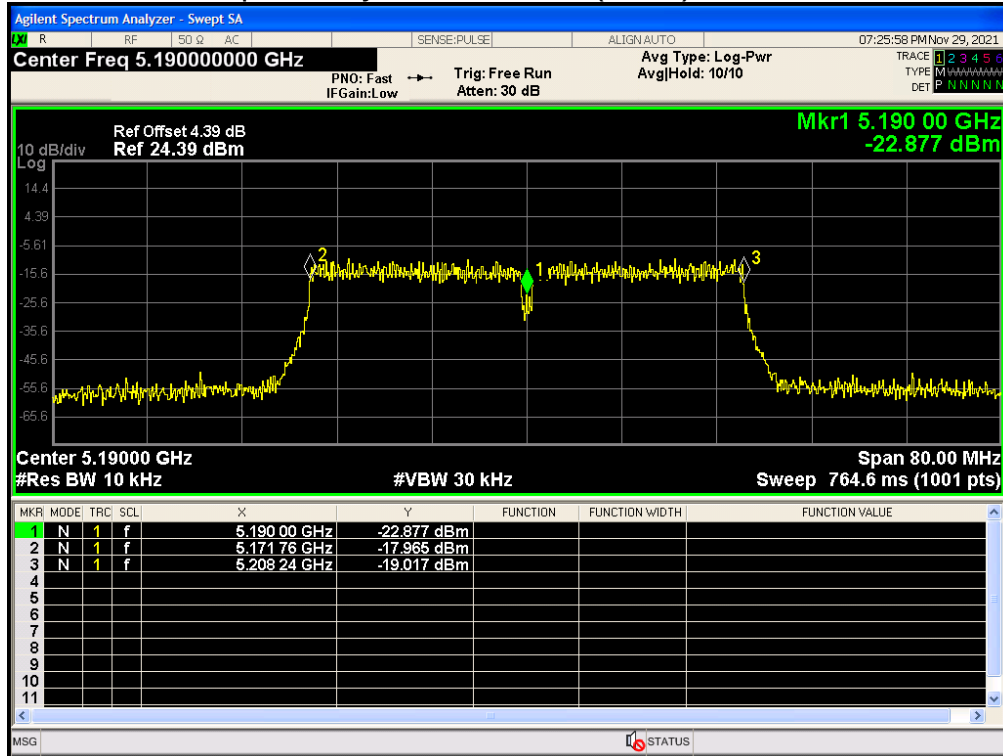
Freq. Stability NVNT 802.11ac80 5210MHz



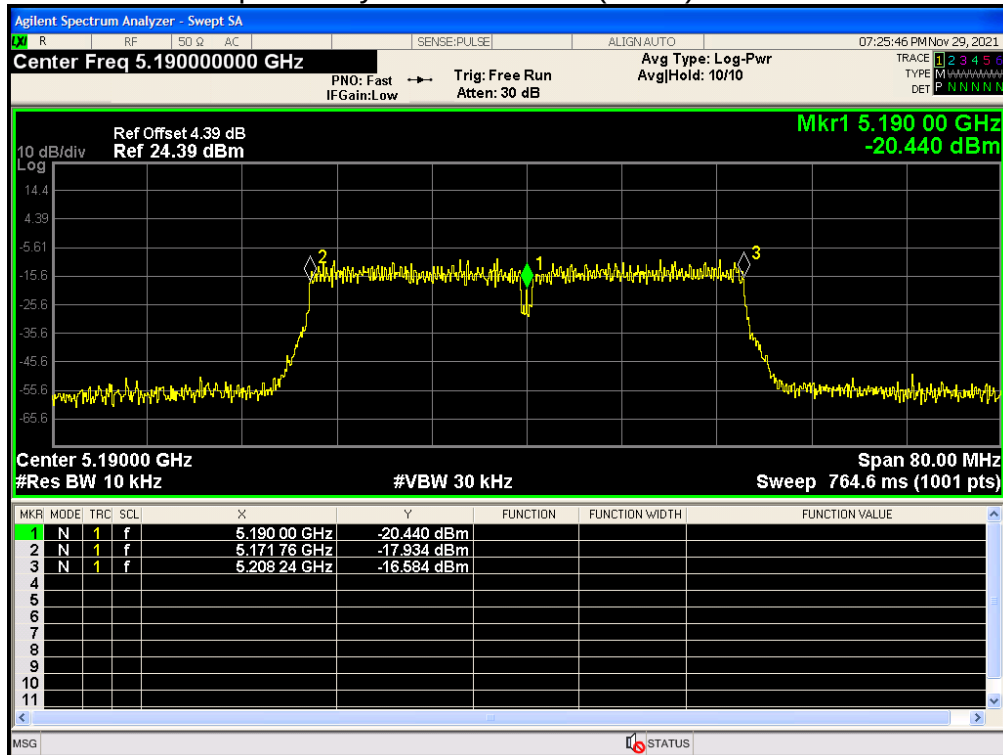
Freq. Stability HVNT 802.11n(HT40) 5190MHz



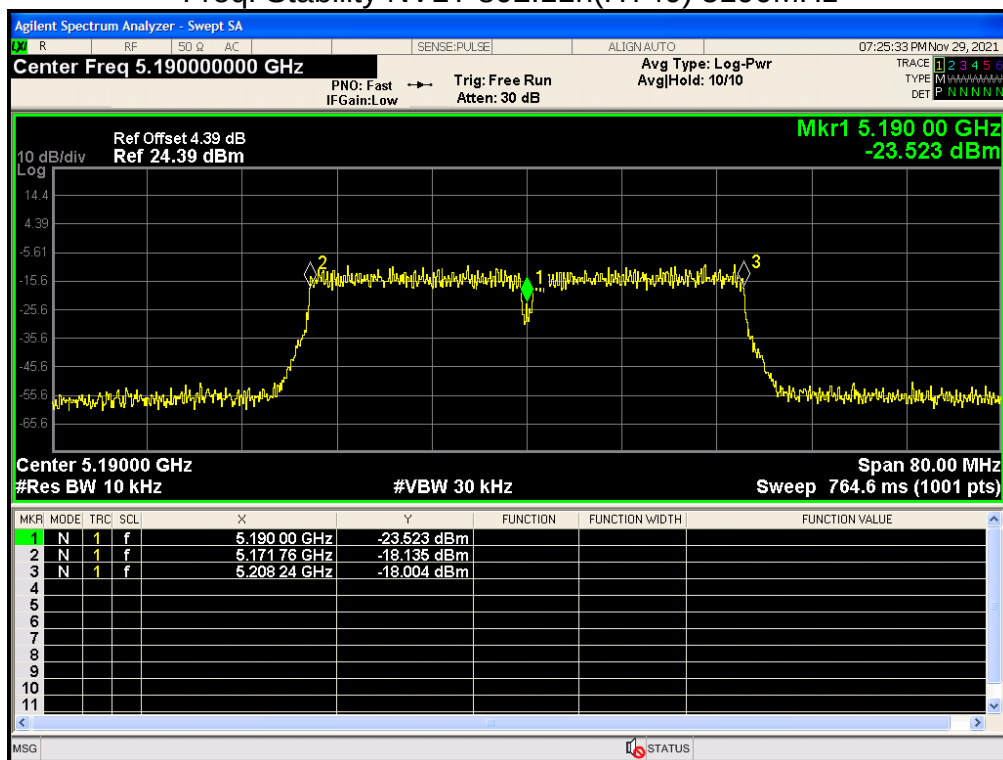
Freq. Stability LVNT 802.11n(HT40) 5190MHz



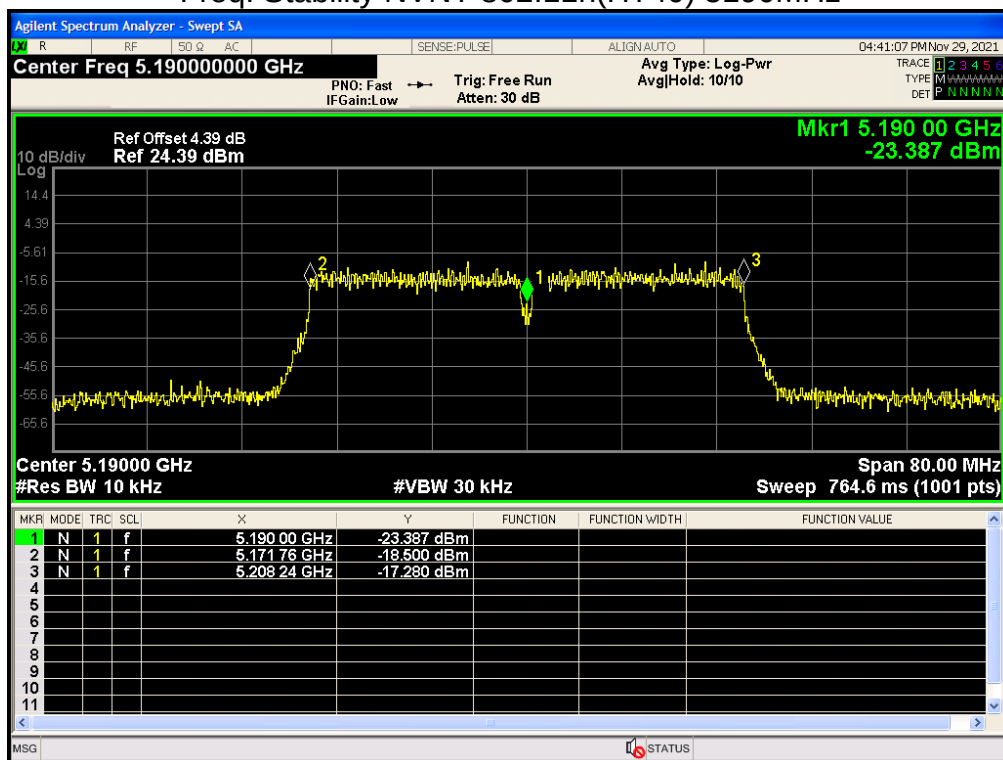
Freq. Stability NVHT 802.11n(HT40) 5190MHz



Freq. Stability NVLT 802.11n(HT40) 5190MHz



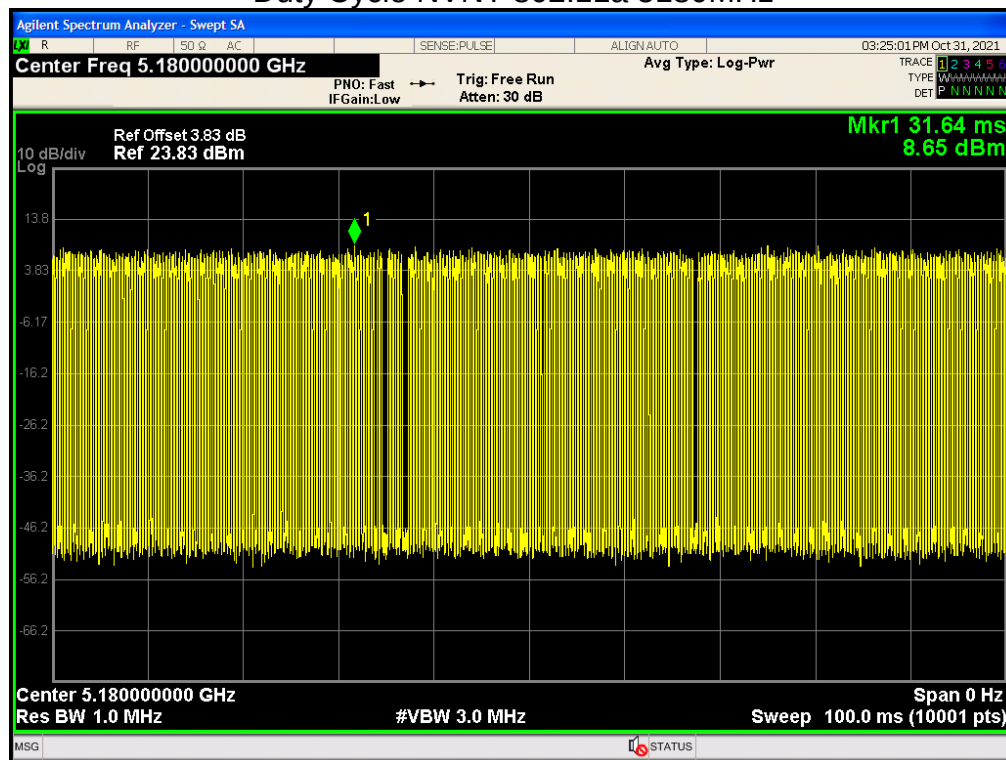
Freq. Stability NVNT 802.11n(HT40) 5190MHz



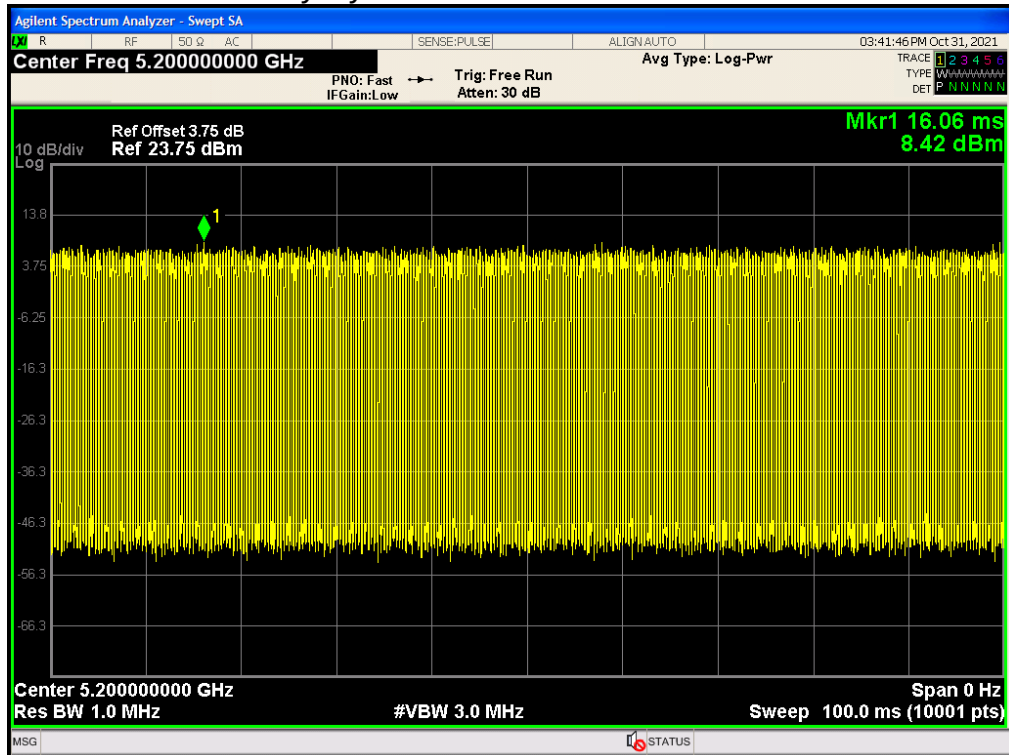
Duty Cycle

Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	802.11a	5180	54.97	2.6
NVNT	802.11a	5200	55.67	2.54
NVNT	802.11a	5240	55.04	2.59
NVNT	802.11ac20	5180	51.27	2.9
NVNT	802.11ac20	5200	51.64	2.87
NVNT	802.11ac20	5240	51.62	2.87
NVNT	802.11ac40	5190	40.31	3.95
NVNT	802.11ac40	5230	38.32	4.17
NVNT	802.11ac80	5210	31.06	5.08
NVNT	802.11n(HT20)	5180	54.39	2.64
NVNT	802.11n(HT20)	5200	54.19	2.66
NVNT	802.11n(HT20)	5240	54.06	2.67
NVNT	802.11n(HT40)	5190	42.53	3.71
NVNT	802.11n(HT40)	5230	40.92	3.88

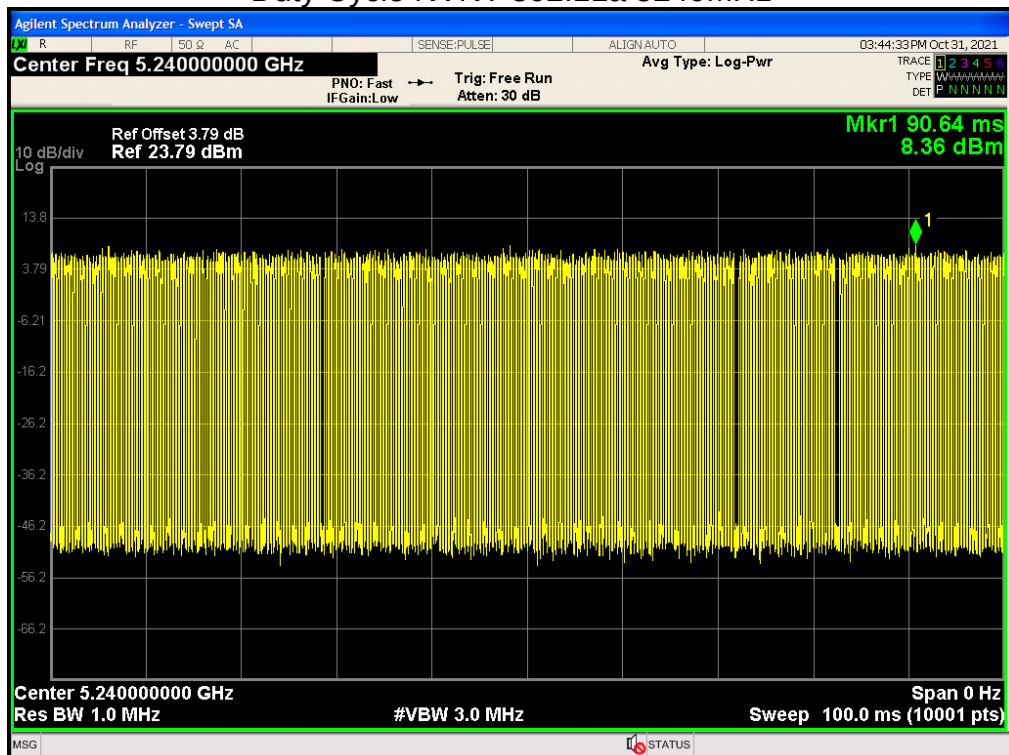
Duty Cycle NVNT 802.11a 5180MHz



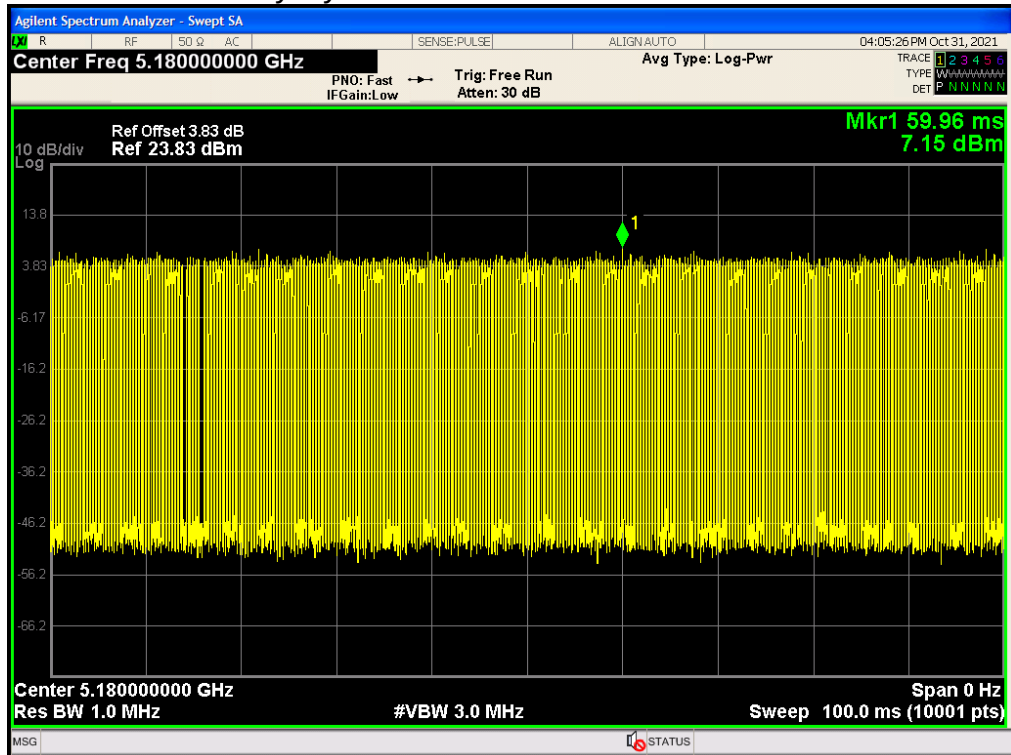
Duty Cycle NVNT 802.11a 5200MHz



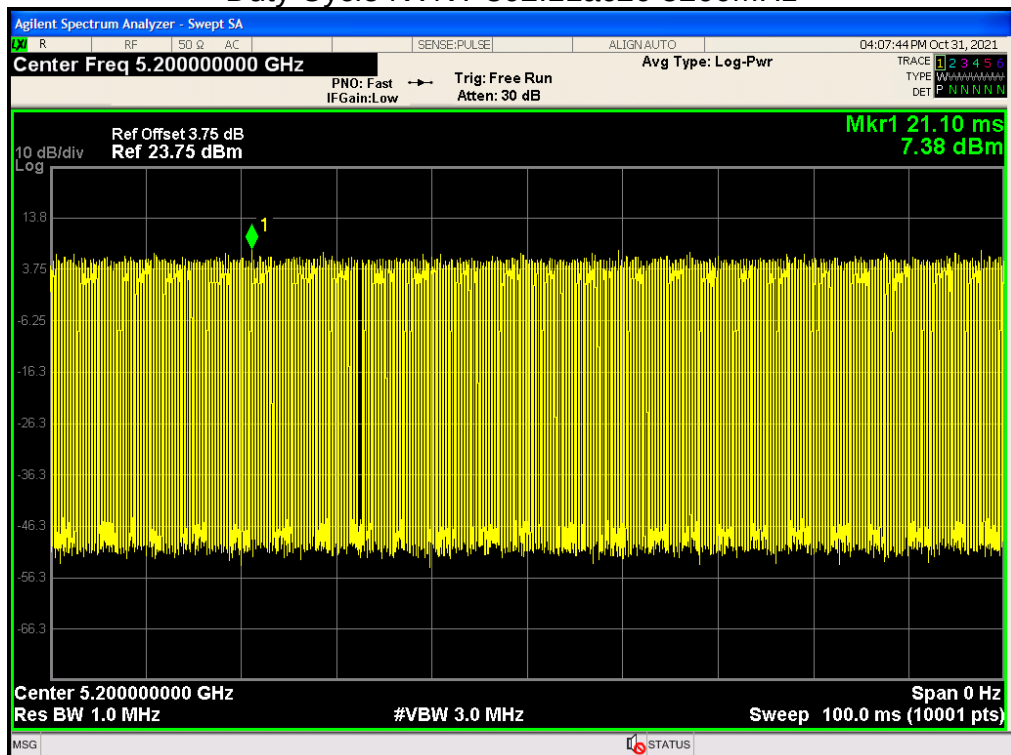
Duty Cycle NVNT 802.11a 5240MHz



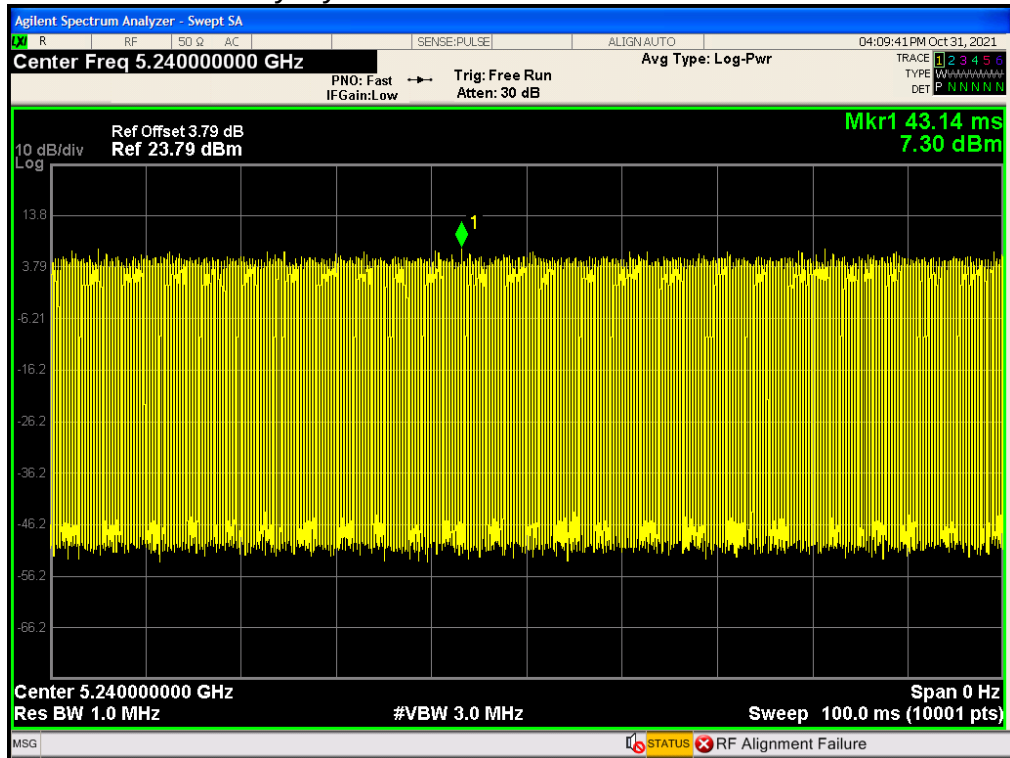
Duty Cycle NVNT 802.11ac20 5180MHz



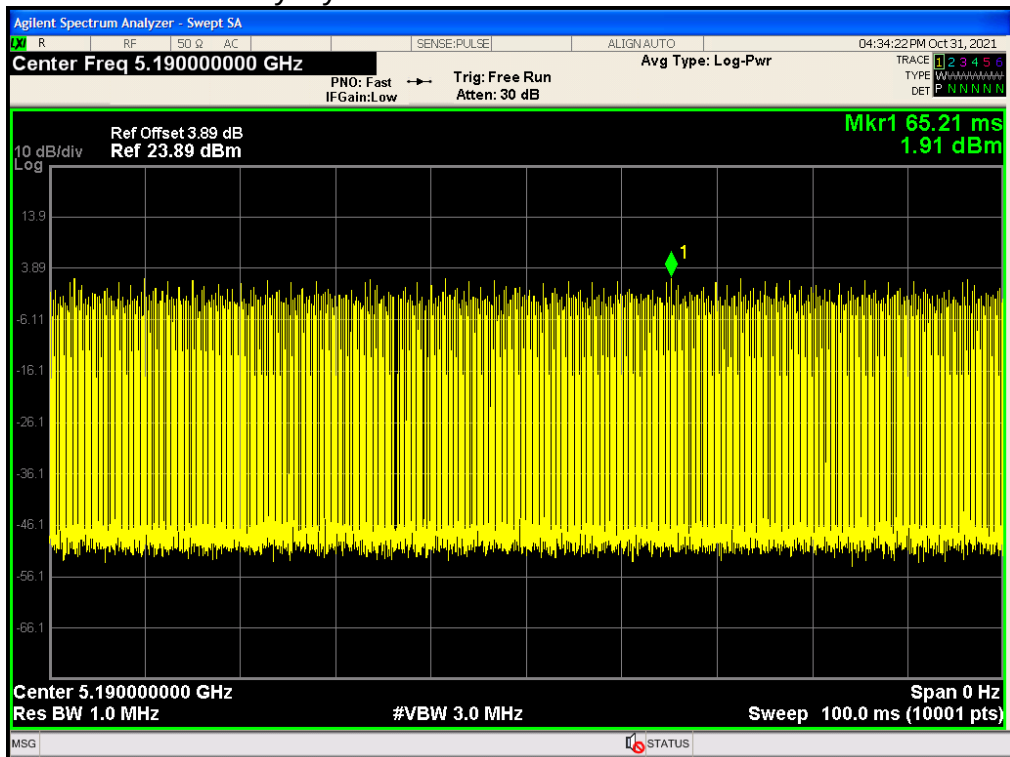
Duty Cycle NVNT 802.11ac20 5200MHz



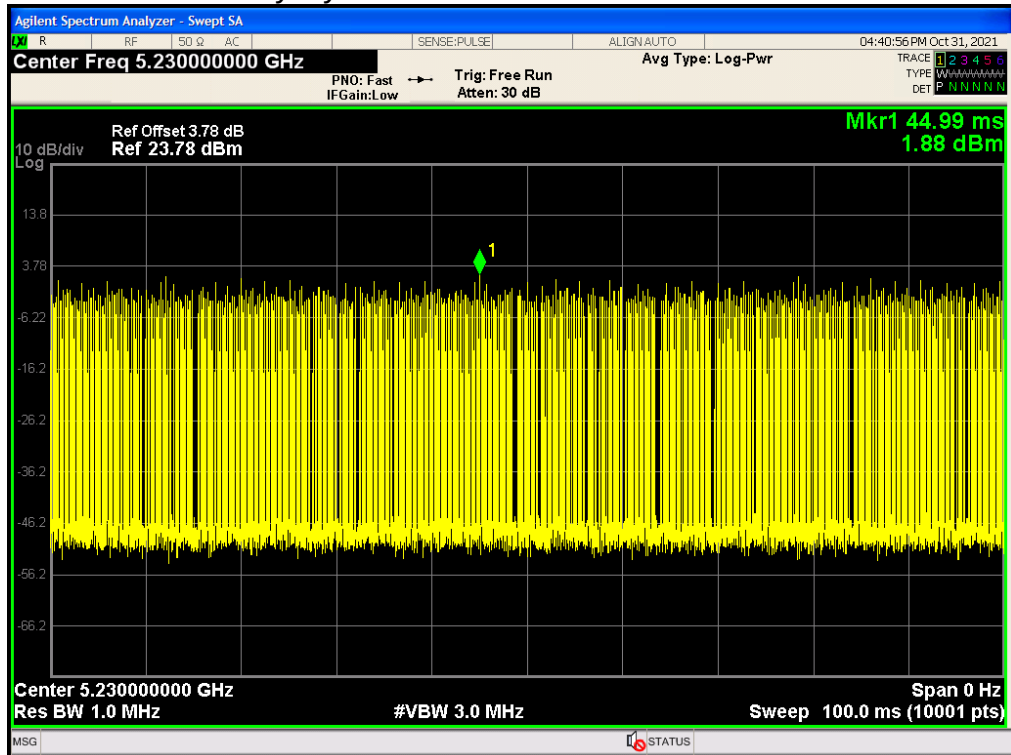
Duty Cycle NVNT 802.11ac20 5240MHz



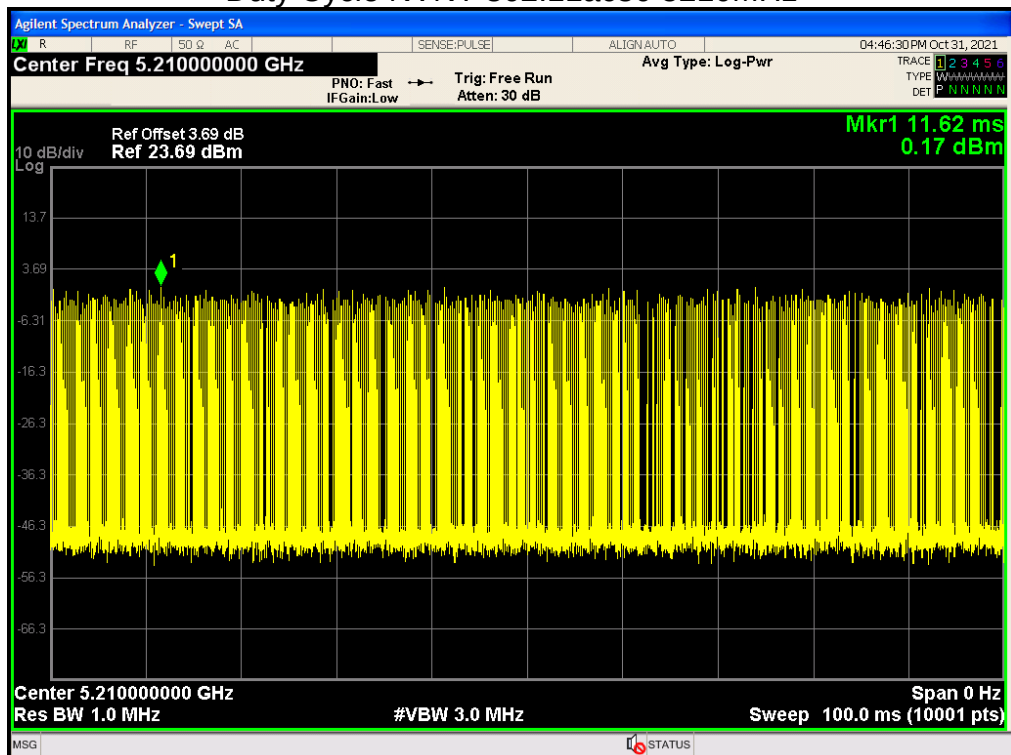
Duty Cycle NVNT 802.11ac40 5190MHz



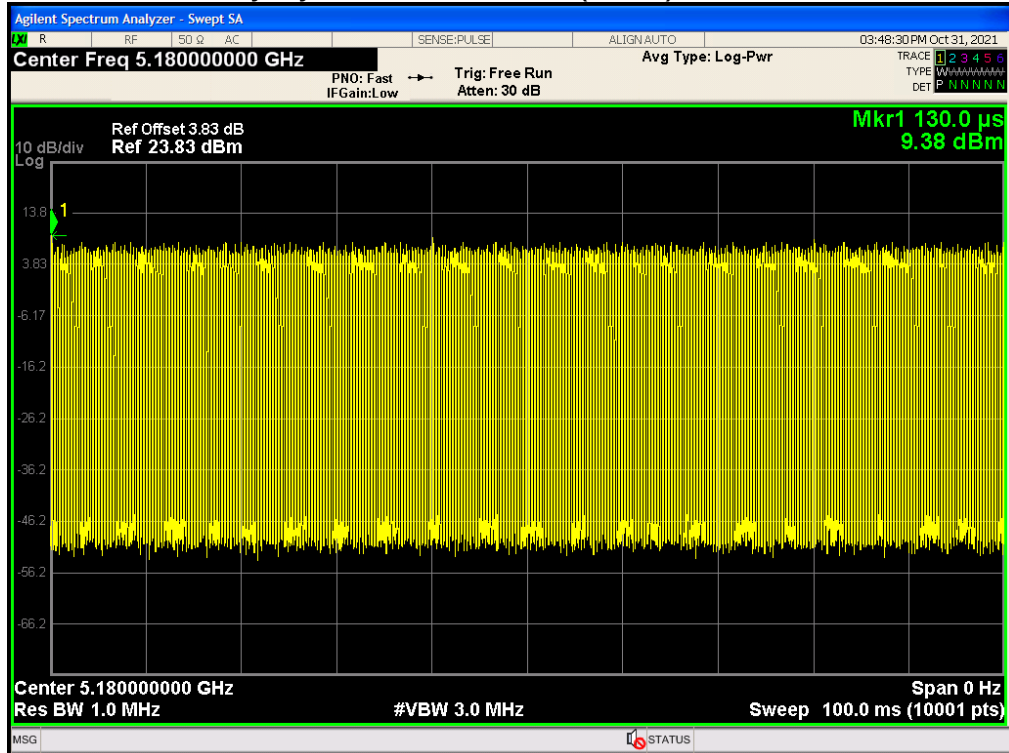
Duty Cycle NVNT 802.11ac40 5230MHz



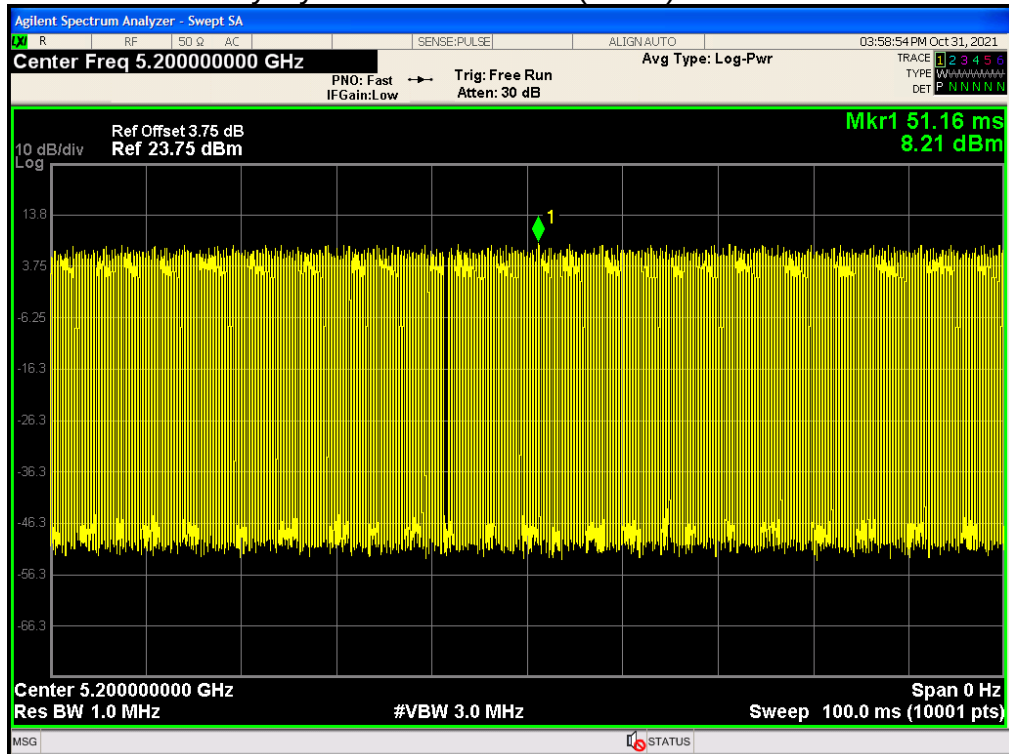
Duty Cycle NVNT 802.11ac80 5210MHz



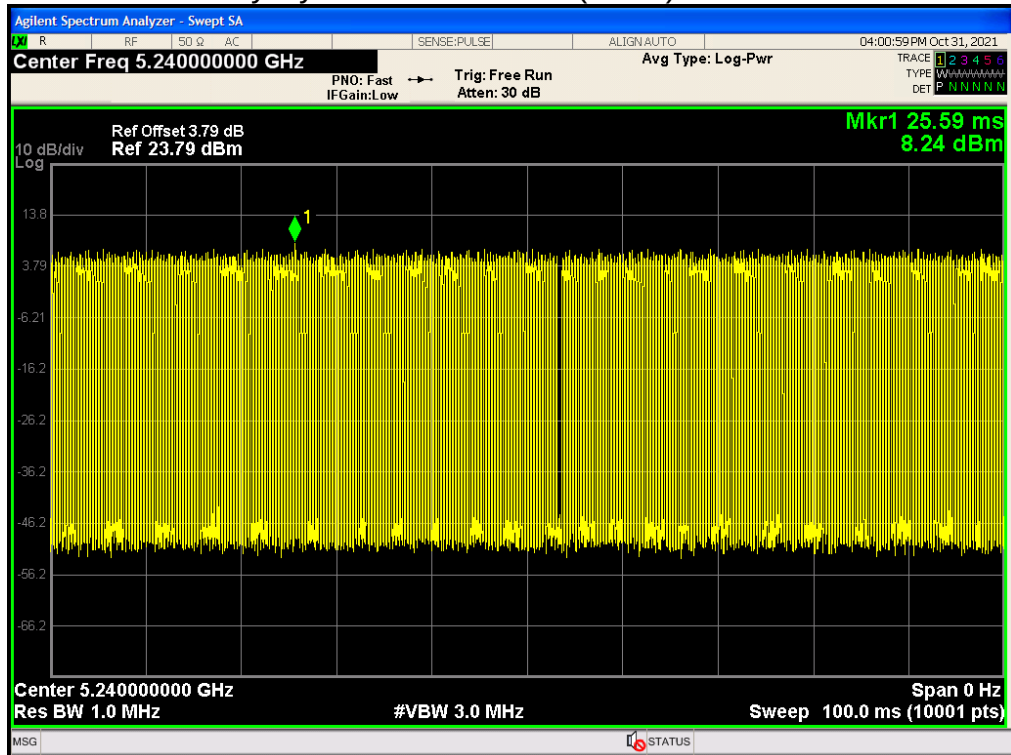
Duty Cycle NVNT 802.11n(HT20) 5180MHz



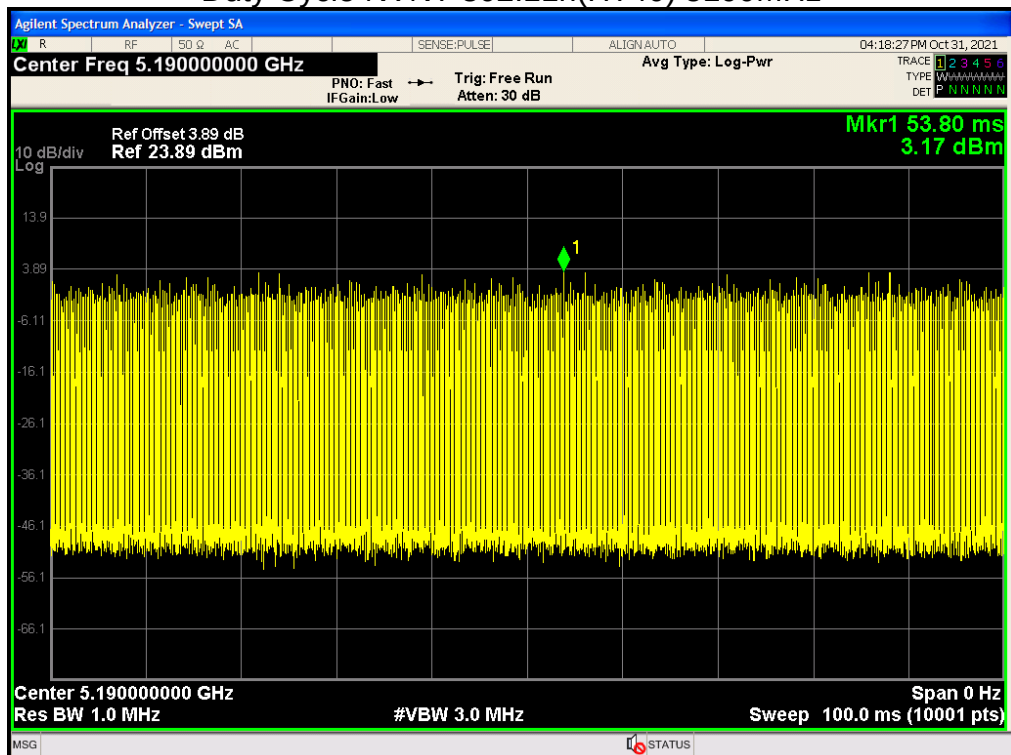
Duty Cycle NVNT 802.11n(HT20) 5200MHz



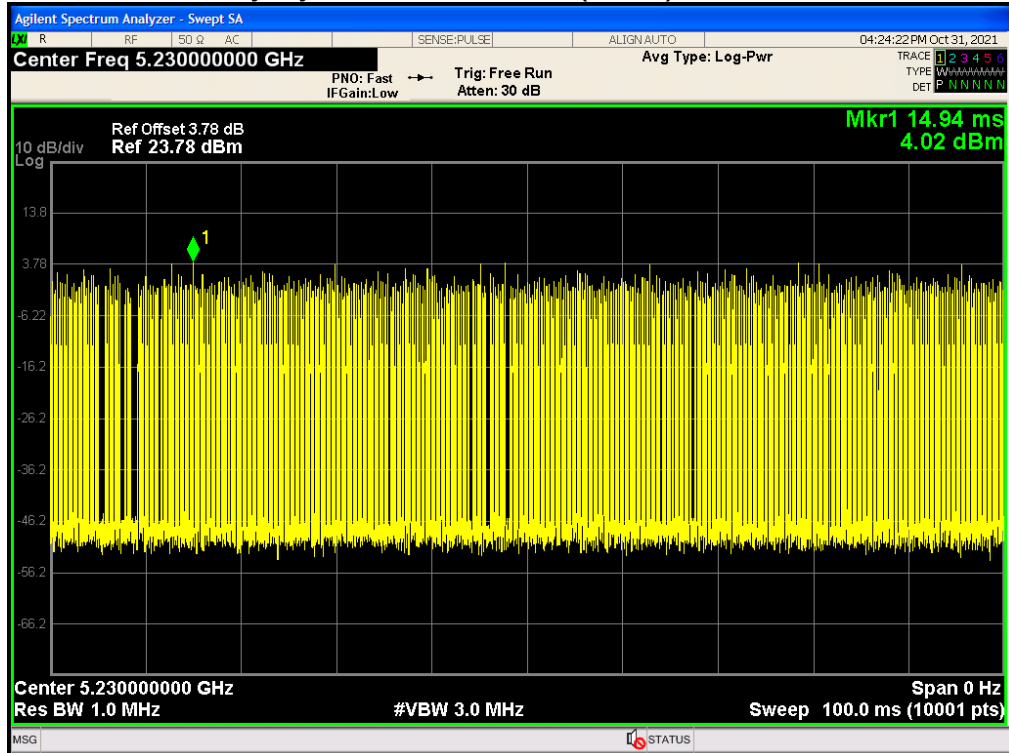
Duty Cycle NVNT 802.11n(HT20) 5240MHz



Duty Cycle NVNT 802.11n(HT40) 5190MHz



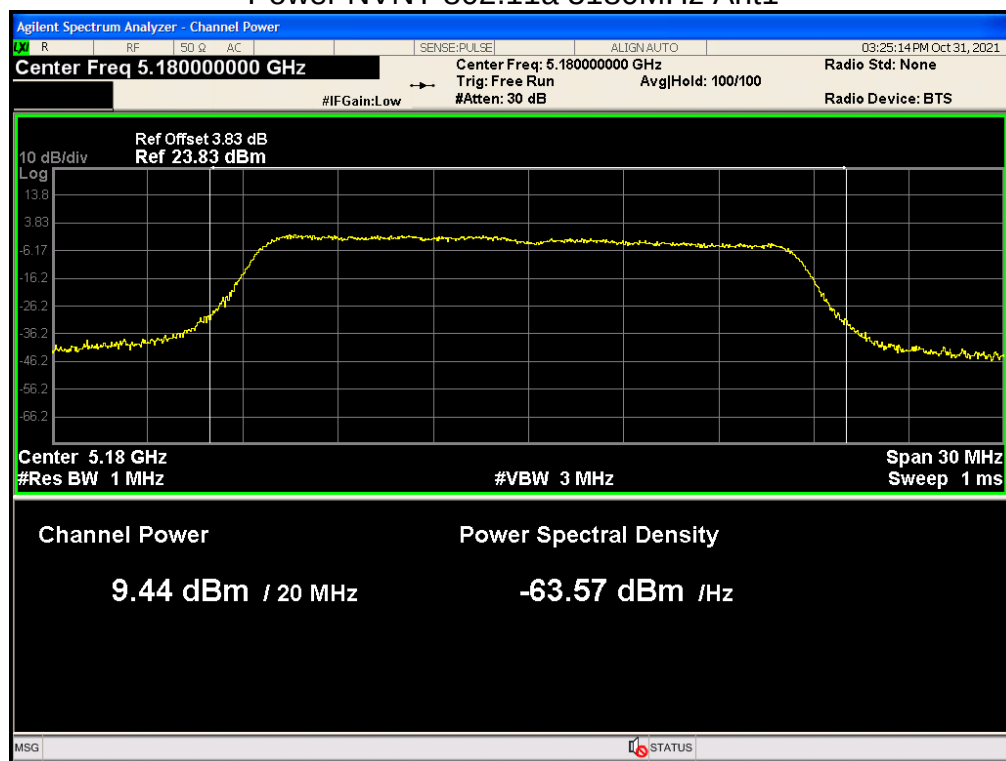
Duty Cycle NVNT 802.11n(HT40) 5230MHz



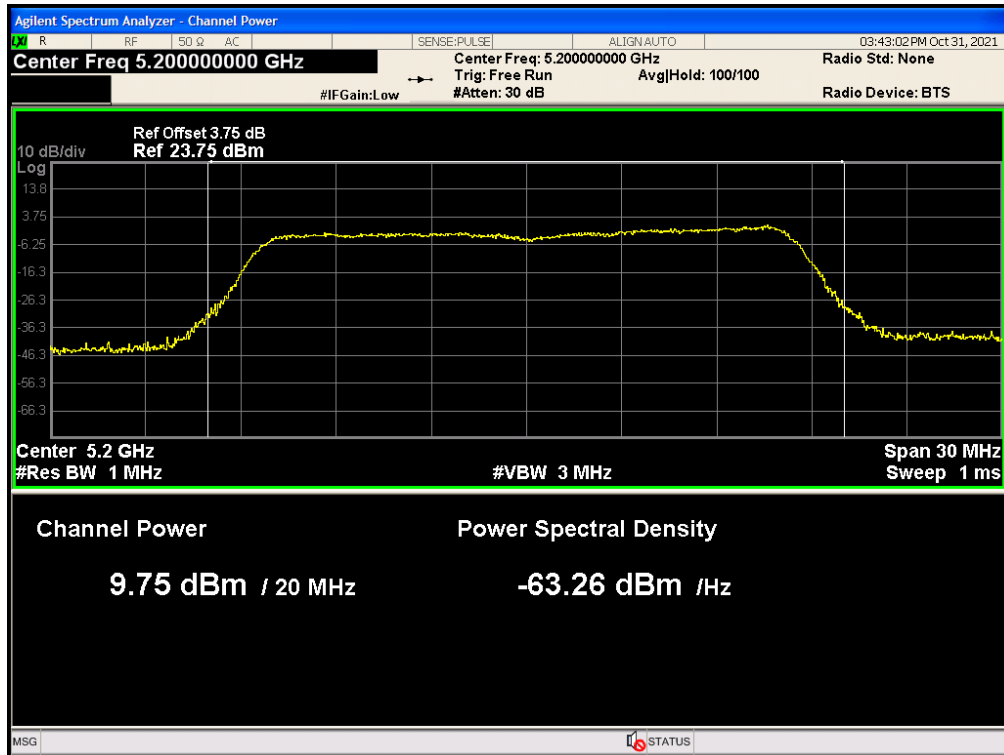
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11a	5180	Ant 1	9.445	2.6	12.045	24	Pass
NVNT	802.11a	5200	Ant 1	9.746	2.54	12.286	24	Pass
NVNT	802.11a	5240	Ant 1	8.745	2.59	11.335	24	Pass
NVNT	802.11ac20	5180	Ant 1	7.996	2.9	10.896	24	Pass
NVNT	802.11ac20	5200	Ant 1	8.344	2.87	11.214	24	Pass
NVNT	802.11ac20	5240	Ant 1	7.646	2.87	10.516	24	Pass
NVNT	802.11ac40	5190	Ant 1	6.262	3.95	10.212	24	Pass
NVNT	802.11ac40	5230	Ant 1	7.133	4.17	11.303	24	Pass
NVNT	802.11ac80	5210	Ant 1	6.011	5.08	11.091	24	Pass
NVNT	802.11n(HT20)	5180	Ant 1	9.762	2.64	12.402	24	Pass
NVNT	802.11n(HT20)	5200	Ant 1	9.647	2.67	12.317	24	Pass
NVNT	802.11n(HT20)	5240	Ant 1	8.968	2.67	11.638	24	Pass
NVNT	802.11n(HT40)	5190	Ant 1	9.041	3.71	12.751	24	Pass
NVNT	802.11n(HT40)	5230	Ant 1	7.704	3.88	11.584	24	Pass

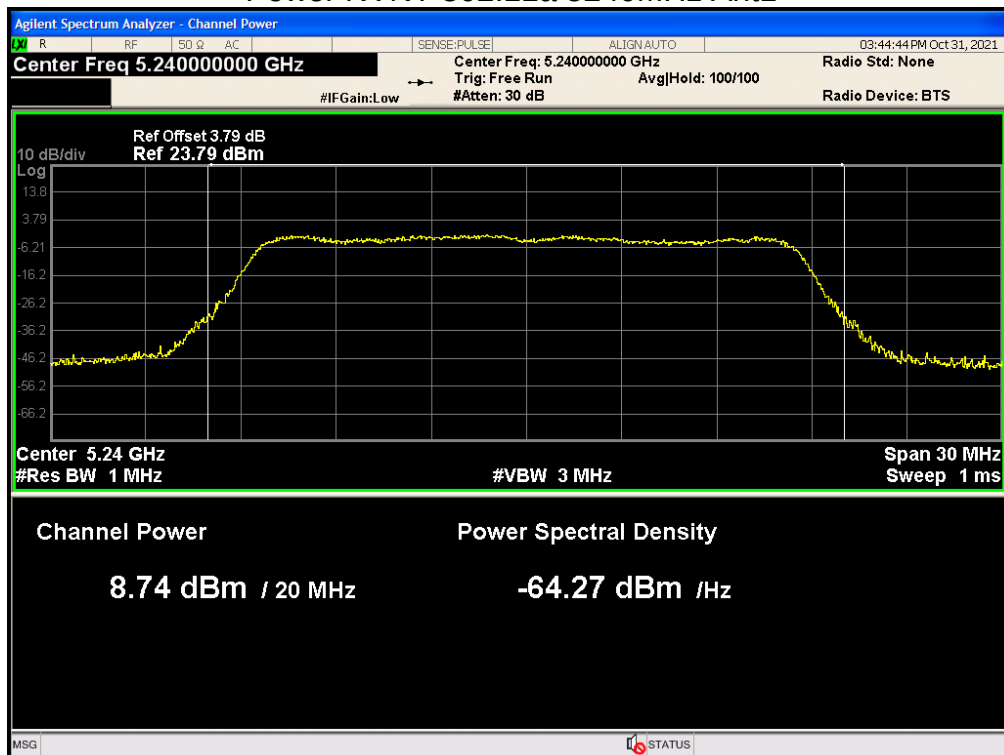
Power NVNT 802.11a 5180MHz Ant1



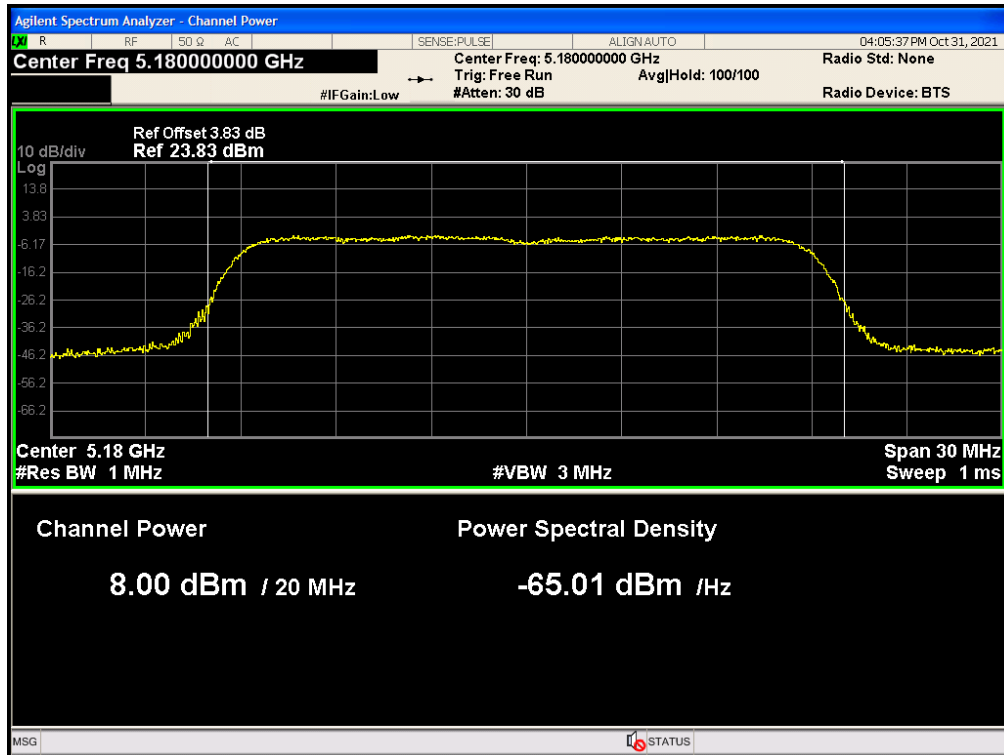
Power NVNT 802.11a 5200MHz Ant1



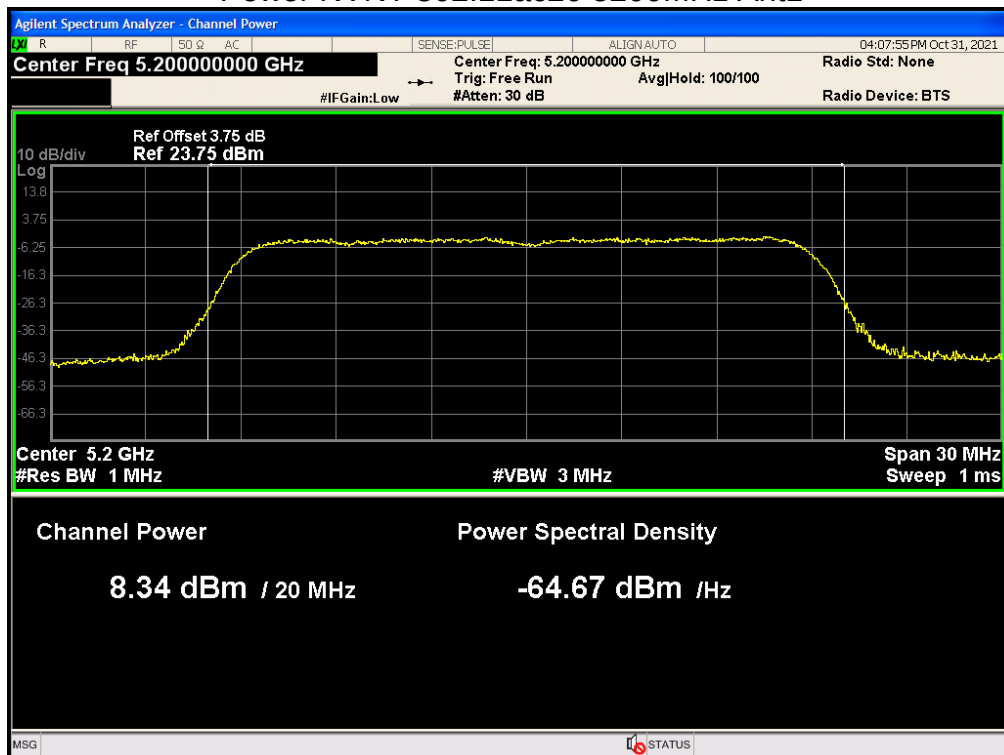
Power NVNT 802.11a 5240MHz Ant1



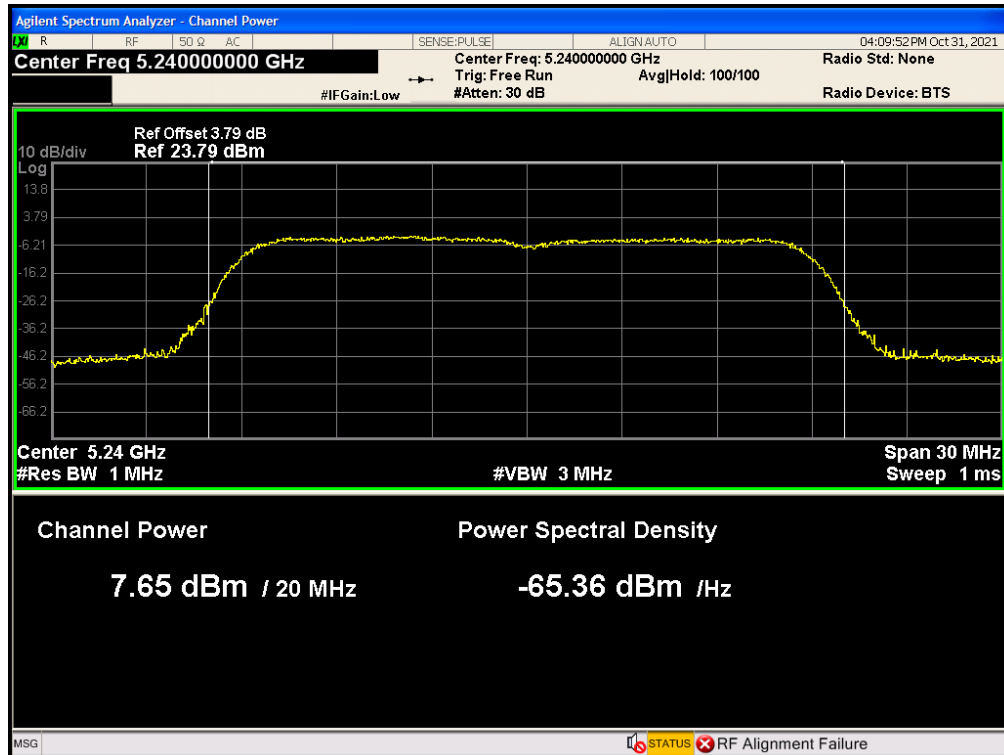
Power NVNT 802.11ac20 5180MHz Ant1



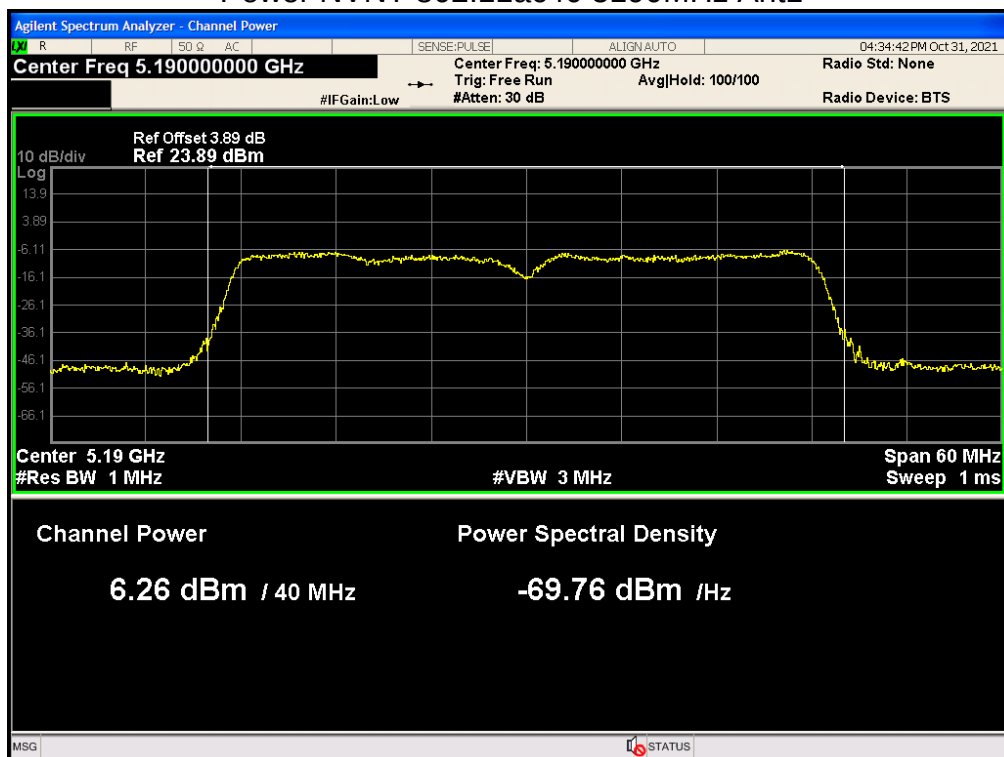
Power NVNT 802.11ac20 5200MHz Ant1



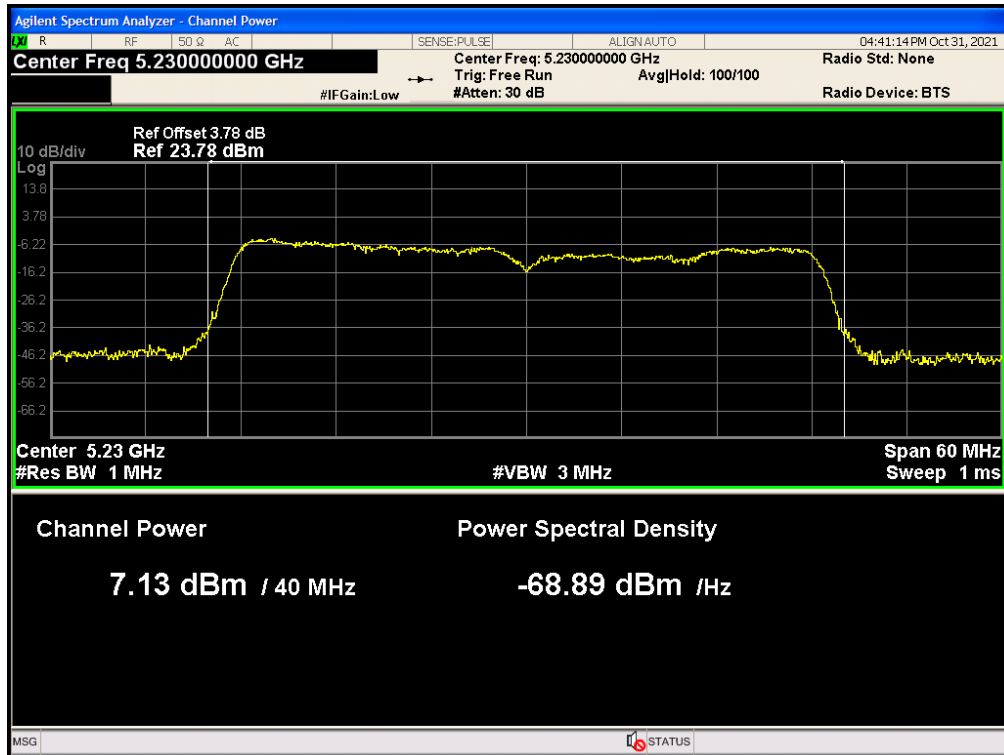
Power NVNT 802.11ac20 5240MHz Ant1



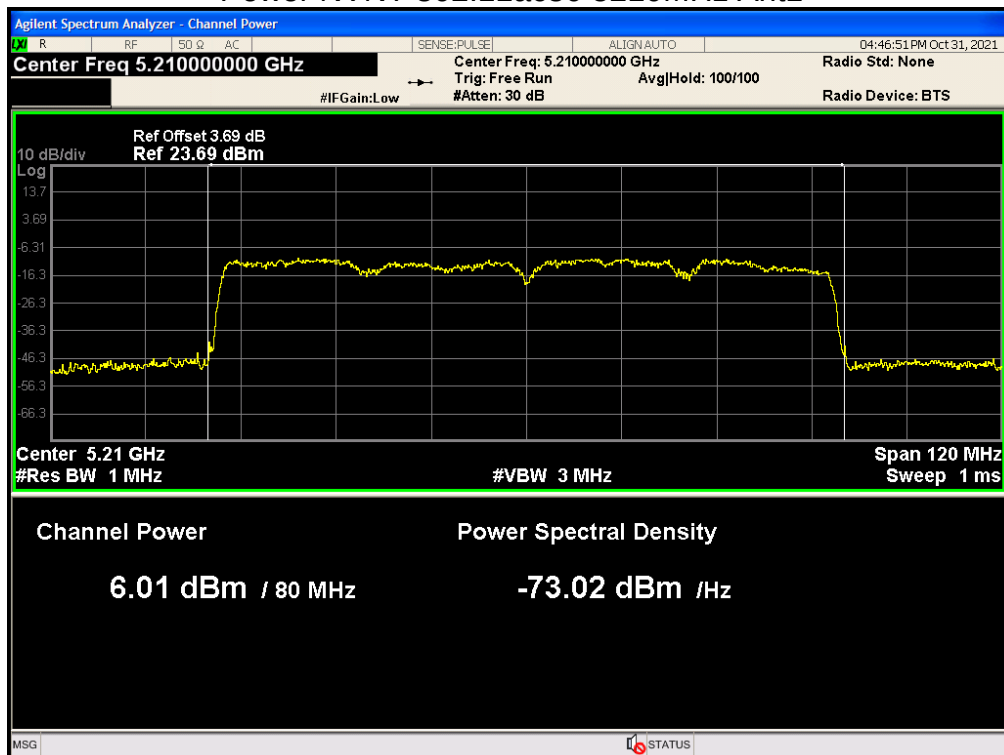
Power NVNT 802.11ac40 5190MHz Ant1



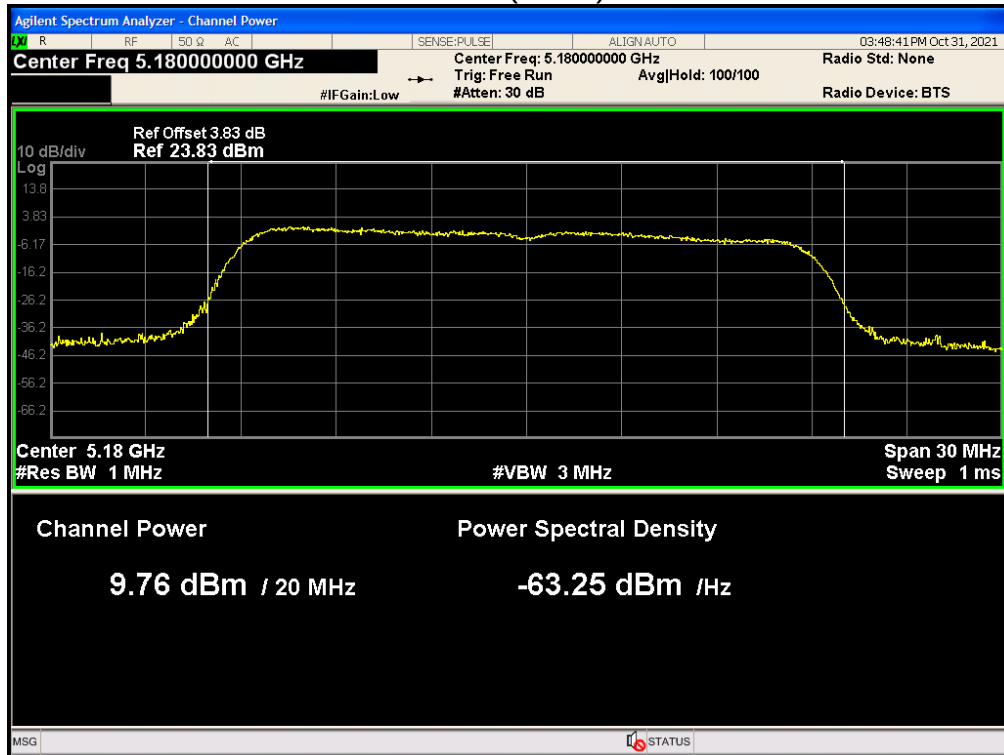
Power NVNT 802.11ac40 5230MHz Ant1



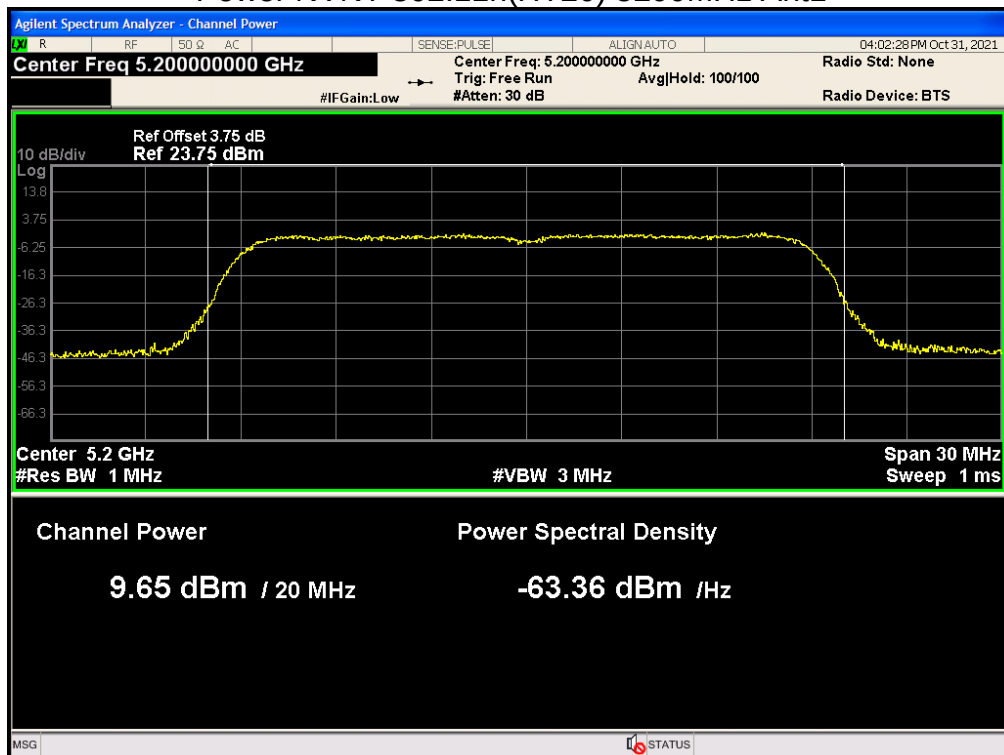
Power NVNT 802.11ac80 5210MHz Ant1



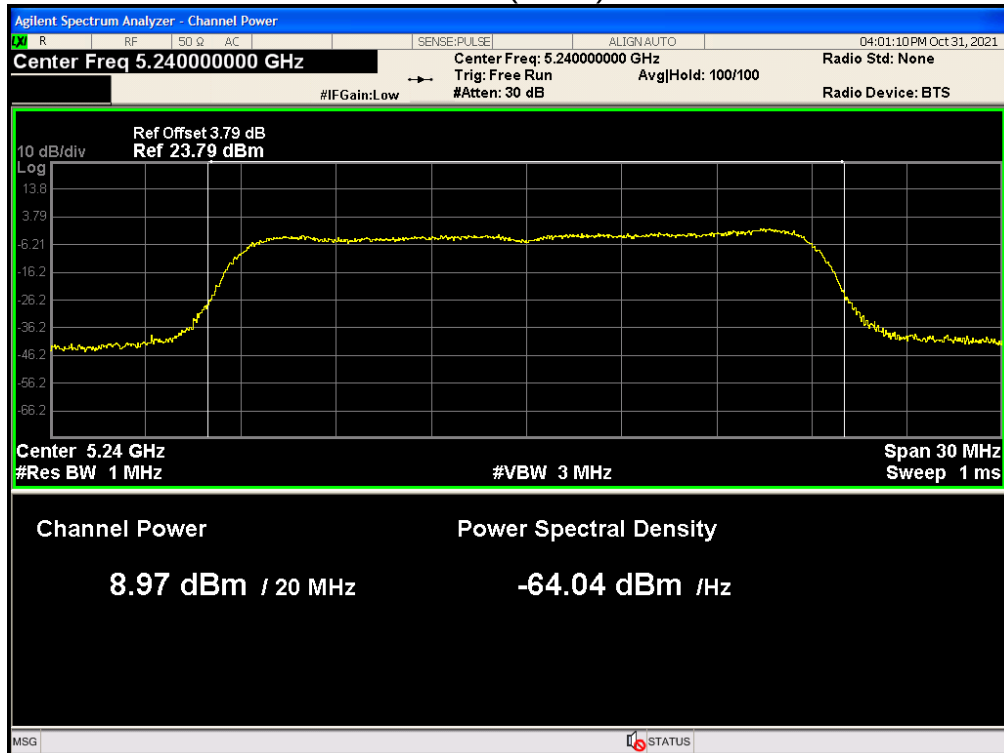
Power NVNT 802.11n(HT20) 5180MHz Ant1



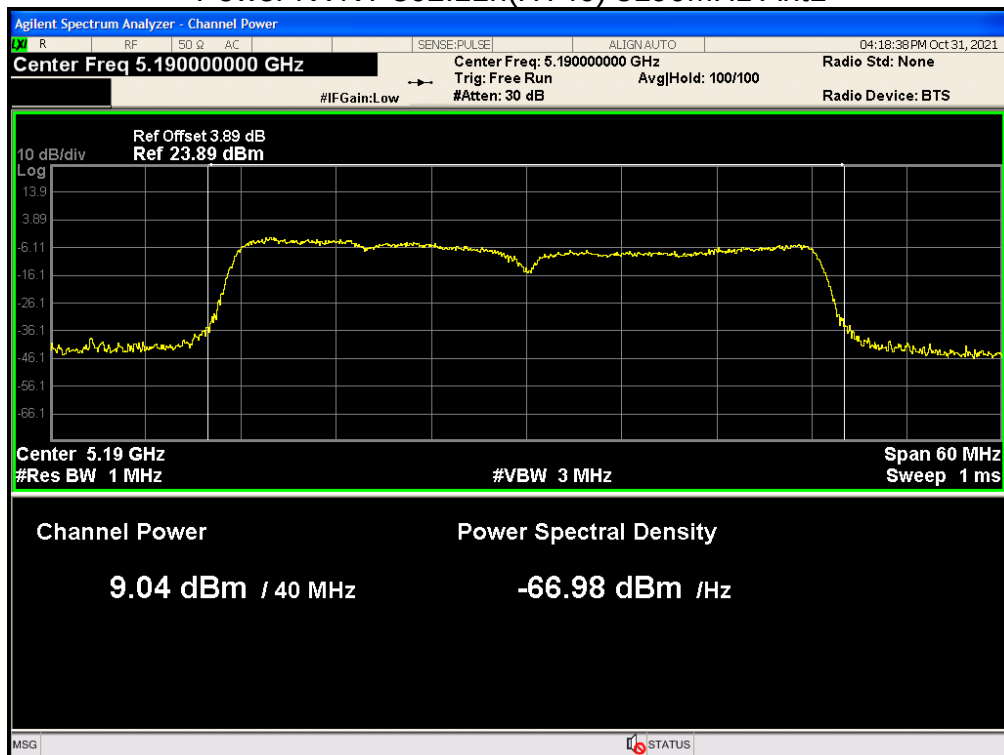
Power NVNT 802.11n(HT20) 5200MHz Ant1



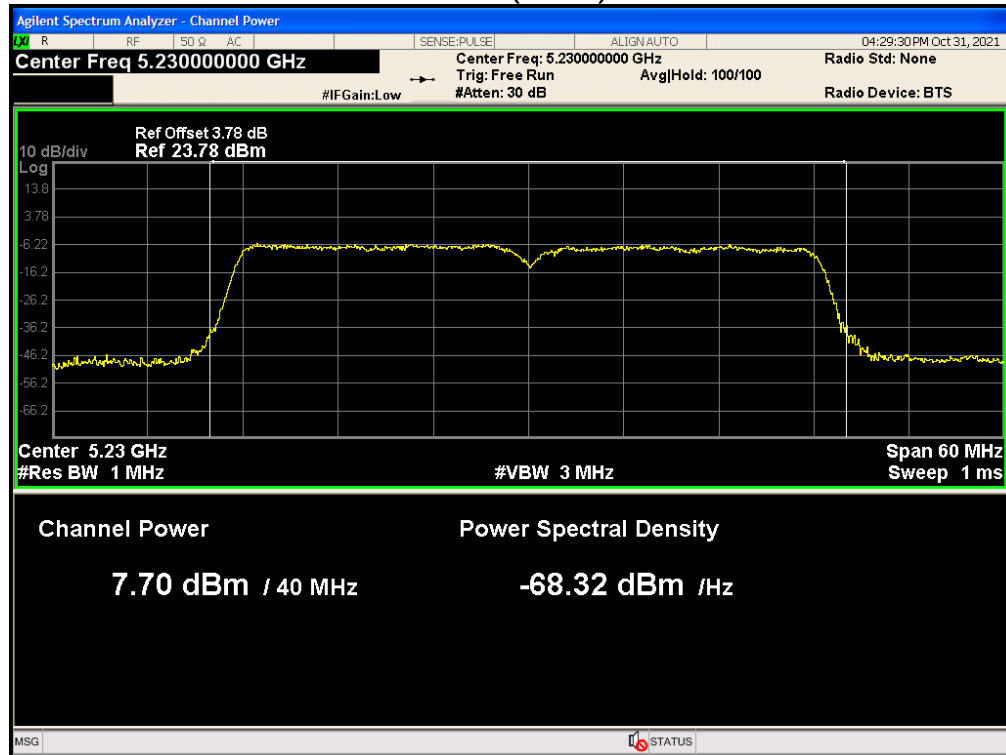
Power NVNT 802.11n(HT20) 5240MHz Ant1



Power NVNT 802.11n(HT40) 5190MHz Ant1



Power NVNT 802.11n(HT40) 5230MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-26 dB Bandwidth (MHz)
NVNT	802.11a	5180	Ant 1	16.471	19.53
NVNT	802.11a	5200	Ant 1	16.4091	18.62
NVNT	802.11a	5240	Ant 1	16.5183	19.08
NVNT	802.11ac20	5180	Ant 1	17.6634	19.74
NVNT	802.11ac20	5200	Ant 1	17.607	19.57
NVNT	802.11ac20	5240	Ant 1	17.638	19.73
NVNT	802.11ac40	5190	Ant 1	36.5032	39.91
NVNT	802.11ac40	5230	Ant 1	36.5109	39.5
NVNT	802.11ac80	5210	Ant 1	75.487	79.09
NVNT	802.11n(HT20)	5180	Ant 1	17.6378	19.66
NVNT	802.11n(HT20)	5200	Ant 1	17.5736	19.77
NVNT	802.11n(HT20)	5240	Ant 1	17.6792	19.65
NVNT	802.11n(HT40)	5190	Ant 1	36.2847	39.36
NVNT	802.11n(HT40)	5230	Ant 1	36.3184	39.25

OBW NVNT 802.11a 5180MHz Ant1

