

FCC UNII REPORT

FCC Certification

Applicant Name:
 LG Electronics MobileComm U.S.A., Inc.

Date of Issue:
 November 17, 2016

Test Site/Location:
 HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Address:
 1000 Sylvan Avenue, Englewood Cliffs NJ
 07632

Report No.: HCT-R-1611-F016
HCT FRN: 0005866421

FCC ID : ZNFL01J
APPLICANT : LG Electronics MobileComm U.S.A., Inc.

Model(s): L-01J
EUT Type: GSM/WCDMA/LTE Phone with WLAN, Bluetooth and NFC
Modulation type OFDM
FCC Classification: Unlicensed National Information Infrastructure(UNII)
FCC Rule Part(s): Part 15.407

Band	Mode	Frequency Range (MHz)	Power (dBm)	Power (W)
UNII1	802.11a	5180 – 5240	8.79	0.0076
	802.11n_HT20	5180 – 5240	8.42	0.0070
	802.11n_HT40	5190 – 5230	6.87	0.0049
	802.11ac_VHT20	5180 – 5240	8.38	0.0069
	802.11ac_VHT40	5190 – 5230	7.05	0.0051
	802.11ac_VHT80	5210	6.80	0.0048
UNII2A	802.11a	5260 – 5320	10.08	0.0102
	802.11n_HT20	5260 – 5320	9.66	0.0092
	802.11n_HT40	5270 – 5310	8.40	0.0069
	802.11ac_VHT20	5260 – 5320	9.72	0.0094
	802.11ac_VHT40	5270 – 5310	8.43	0.0070
	802.11ac_VHT80	5290	7.48	0.0056
UNII2C	802.11a	5500 – 5720	10.52	0.0113
	802.11n_HT20	5500 – 5720	10.11	0.0103
	802.11n_HT40	5510 – 5710	9.89	0.0097
	802.11ac_VHT20	5500 – 5720	10.05	0.0101
	802.11ac_VHT40	5510 – 5710	9.92	0.0098
	802.11ac_VHT80	5530 – 5690	9.15	0.0082
UNII3	802.11a	5745 – 5825	10.83	0.0121
	802.11n_HT20	5745 – 5825	10.48	0.0112
	802.11n_HT40	5755 – 5795	9.86	0.0097
	802.11ac_VHT20	5745 – 5825	10.49	0.0112
	802.11ac_VHT40	5755 – 5795	9.88	0.0097
	802.11ac_VHT80	5775	8.00	0.0063

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



Report prepared by
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Test Engineer of RF Team



Approved by
: Jong Seok Lee
Manager of RF Team

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1611-F016	November 17, 2016	- First Approval Report

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1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A., Inc.
Address: 1000 Sylvan Avenue, Englewood Cliffs NJ 07632
FCC ID: ZNFL01J
EUT Type: GSM/WCDMA/LTE Phone with WLAN, Bluetooth and NFC
Model (s): L-01J
Date(s) of Tests: October 11, 2016 ~ November 16, 2016
Place of Tests: HCT Co., Ltd.
 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

2. EUT DESCRIPTION

Model	L-01J	
EUT Type	GSM/WCDMA/LTE Phone with WLAN, Bluetooth and NFC	
Power Supply	DC 3.85 V	
Battery Infomation	Model: BL-T28 Type: Lithium Polymer Battery Pack	
Frequency Range	TX_20 MHz BW:	5180 MHz - 5240 MHz (UNII 1)/ 5260 MHz - 5320 MHz (UNII 2A)/ 5500 MHz - 5720 MHz (UNII 2C)/ 5745 MHz - 5825 MHz (UNII 3)
	40 MHz BW:	5190 MHz - 5230 MHz (UNII 1)/ 5270 MHz - 5310 MHz (UNII 2A)/ 5510 MHz - 5710 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz(UNII 1)/ 5290 MHz(UNII 2A)/ 5530 MHz - 5690 MHz(UNII 2C)/ 5775 MHz (UNII 3)
	RX_20 MHz BW:	5180 MHz - 5240 MHz (UNII 1)/ 5260 MHz - 5320 MHz (UNII 2A)/ 5500 MHz - 5720 MHz (UNII 2C)/ 5745 MHz - 5825 MHz (UNII 3)
	40 MHz BW:	5190 MHz - 5230 MHz (UNII 1)/ 5270 MHz - 5310 MHz (UNII 2A)/ 5510 MHz - 5710 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz(UNII 1)/ 5290 MHz(UNII 2A)/ 5530 MHz - 5690 MHz(UNII 2C)/ 5775 MHz (UNII 3)
Modulation Type	OFDM(802.11a, 802.11n, 802.11ac)	
Antenna Specification	Manufacturer: AT&C Co., LTD. Antenna type: INTERNAL ANTENNA Peak Gain : -0.5 dBi (5180~5240 UNII1 BAND) / -1.88 dBi (5260~5320 UNII2A BAND) -1.9 dBi (5500~5720 UNII2C BAND) / -1.48 dBi (5745~5825 UNII3 BAND)	

3. TEST METHODOLOGY

The measurement procedure described in FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r03 dated August 22, 2016 entitled "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part15, Subpart E" and ANSI C63.10(Version : 2013) 'the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices' were used in the measurement. For 802.11ac, KDB644545 D03 v01 dated August 14, 2014.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz. Above 1GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3.75 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10. (Version: 2013)

Conducted Antenna Terminal

See Section from 8.1 to 8.4.(KDB 789033 D02 v01r03)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 07, 2015 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203, §15.407

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of this E.U.T are permanently attached.

* The E.U.T Complies with the requirement of §15.203, §15.407

7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (\pm dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80
Radiated Disturbance (1 GHz ~ 18 GHz)	6.07

8. SUMMARY OF TEST RESULTS

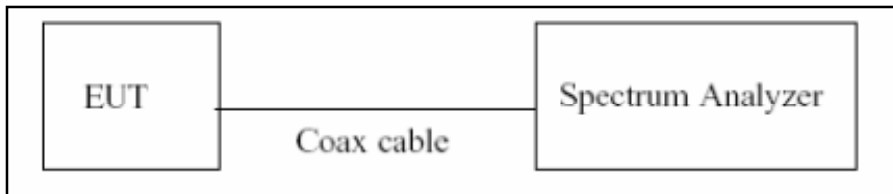
Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407 (for Power Measurement)	N/A	CONDUCTED	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)		PASS
Maximum Conducted Output Power	§15.407(a)(1)	< 250 mW (5150-5250 MHz) < 250 mW or 11+10 log log ₁₀ (BW) dBm (5250-5350 MHz) < 250 mW or 11+10 log log ₁₀ (BW) dBm (5470-5725 MHz) <1 W (5725-5850 MHz)		PASS
Peak Power Spectral Density	§15.407(a)(1),(5)	<11 dBm/ MHz (5150-5250 MHz) <11 dBm/ MHz (5250-5350 MHz) <11 dBm/ MHz (5470-5725 MHz) <30 dBm/500 kHz(5725-5850 MHz)		PASS
Frequency Stability	§15.407(g)	NA		PASS
AC Conducted Emissions 150 kHz-30 MHz	15.207	<FCC 15.207 limits		PASS
Undesirable Emissions	§15.407(b)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) <-17 dBm/MHz EIRP within 5715-5725 MHz and 5850-5860 MHz (UNII3) <-27 dBm/MHz EIRP outside 5715-5860 MHz (UNII 3)	RADIATED	PASS
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(5), (6)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

9. TEST RESULT

9.1 DUTY CYCLE

The zero-span mode on a spectrum analyzer or EMI receiver ,if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in section B)1)a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, (B.2 in KDB 789033 D02 v01r03)

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz (\geq RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on} / T_{total} and Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$

■ Duty Cycle Factor

Mode	Data Rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11a	6	2.787	2.810	0.99181495	0.036
	9	1.868	1.891	0.98783712	0.053
	12	1.409	1.424	0.98946629	0.046
	18	0.941	0.964	0.97614108	0.105
	24	0.714	0.738	0.96747967	0.144
	36	0.483	0.507	0.95266272	0.211
	48	0.366	0.390	0.93846154	0.276
	54	0.327	0.348	0.93965517	0.270
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	2.591	2.614	0.99120122	0.038
	1	1.318	1.333	0.98874719	0.049
	2	0.895	0.915	0.97814208	0.096
	3	0.680	0.700	0.97142857	0.126
	4	0.464	0.486	0.95473251	0.201
	5	0.356	0.376	0.94680851	0.237
	6	0.324	0.346	0.93641618	0.285
	7	0.292	0.312	0.93589744	0.288
802.11n_HT40	0	2.486	2.509	0.99083300	0.040
	1	1.258	1.281	0.98204528	0.079
	2	0.851	0.873	0.97479954	0.111
	3	0.648	0.669	0.96860987	0.139
	4	0.444	0.465	0.95483871	0.201
	5	0.343	0.364	0.94230769	0.258
	6	0.308	0.329	0.93617021	0.286
	7	0.283	0.305	0.92786885	0.325

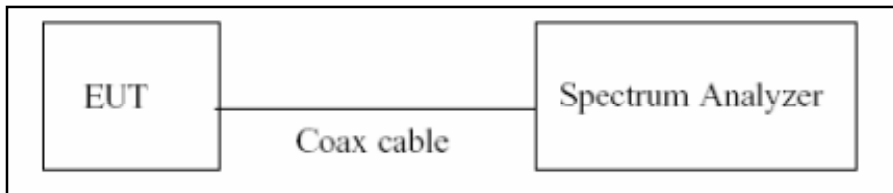
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	MCS 0	2.607	2.622	0.99427918	0.025
	MCS 1	1.318	1.341	0.98284862	0.075
	MCS 2	0.896	0.911	0.98353458	0.072
	MCS 3	0.685	0.705	0.97163121	0.125
	MCS 4	0.470	0.490	0.95918367	0.181
	MCS 5	0.364	0.386	0.94300518	0.255
	MCS 6	0.328	0.350	0.93714286	0.282
	MCS 7	0.300	0.322	0.93167702	0.307
	MCS 8	0.256	0.276	0.92753623	0.327
802.11ac_VHT40	MCS 0	2.486	2.509	0.99083300	0.040
	MCS 1	1.258	1.281	0.98204528	0.079
	MCS 2	0.858	0.881	0.97389330	0.115
	MCS 3	0.652	0.674	0.96735905	0.144
	MCS 4	0.448	0.470	0.95319149	0.208
	MCS 5	0.348	0.370	0.94054054	0.266
	MCS 6	0.312	0.332	0.93975904	0.270
	MCS 7	0.288	0.310	0.92903226	0.320
	MCS 8	0.244	0.266	0.91729323	0.375
	MCS 9	0.224	0.246	0.91056911	0.407
802.11ac_VHT80	MCS 0	1.173	1.194	0.98241206	0.077
	MCS 1	0.609	0.630	0.96666667	0.147
	MCS 2	0.420	0.444	0.94594595	0.241
	MCS 3	0.324	0.346	0.93641618	0.285
	MCS 4	0.232	0.254	0.91338583	0.393
	MCS 5	0.184	0.205	0.89756098	0.469
	MCS 6	0.168	0.190	0.88421053	0.534
	MCS 7	0.156	0.177	0.88135593	0.548
	MCS 8	0.136	0.157	0.86624204	0.624
	MCS 9	0.128	0.149	0.85906040	0.660

9.2 EMISSION BANDWIDTH AND MINIMUM EMISSION BANDWIDTH MEASUREMENT

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum power control level, as defined in KDB 789033 D02 v01r03, at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26 dB bandwidth.

The 26 dB bandwidth is used to determine the conducted power limits.

■ TEST CONFIGURATION



■ TEST PROCEDURE (26dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to (C.1 in KDB 789033 D02 v01r03)

1. RBW = approximately 1 % of the emission bandwidth
2. VBW > RBW
3. Detector = Peak
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Note : We tested 26 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 26 dB.

1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

■ TEST PROCEDURE (for the band 5.725-5.85 GHz, 6 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to(C.2 in KDB 789033 D02 v01r03)

1. RBW = 100 kHz
2. VBW \geq 3*RBW
3. Detector = Peak
4. Trace mode = max hold
5. Allow the trace to stabilize
6. 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.

Note : We tested 6 dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer. X dB is set 6 dB.

■ TEST RESULTS for 802.11a

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	20.92	N/A	Pass
5200	40	20.91	N/A	Pass
5240	48	21.02	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	20.89	N/A	Pass
5300	60	20.91	N/A	Pass
5320	64	21.07	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

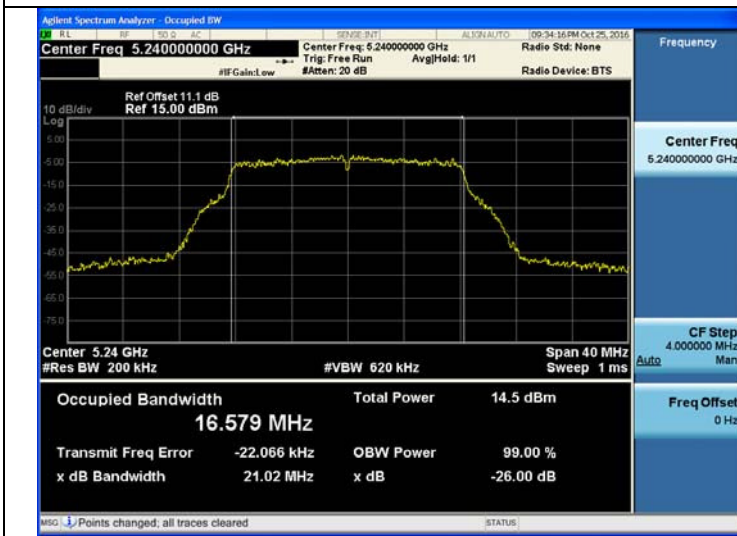
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	21.08	N/A	Pass
5580	116	21.00	N/A	Pass
5720	144	20.90	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

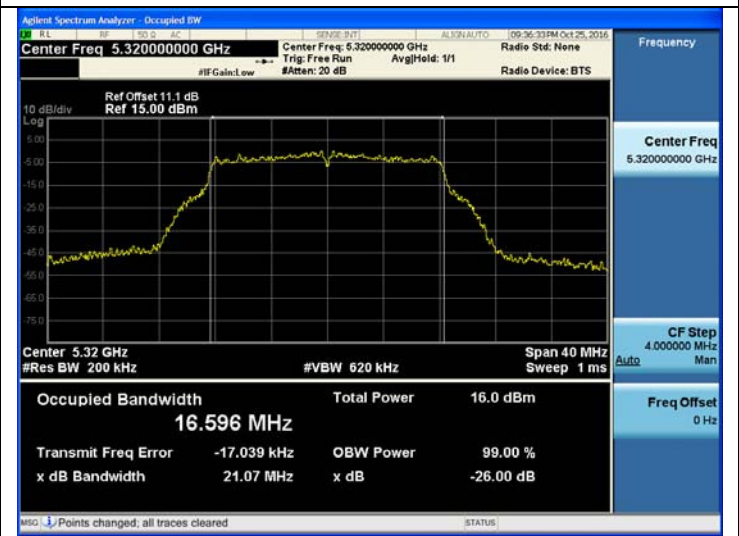
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	21.07	N/A	Pass
5785	157	20.84	N/A	Pass
5825	165	21.05	N/A	Pass

■ TEST Plot for 802.11a

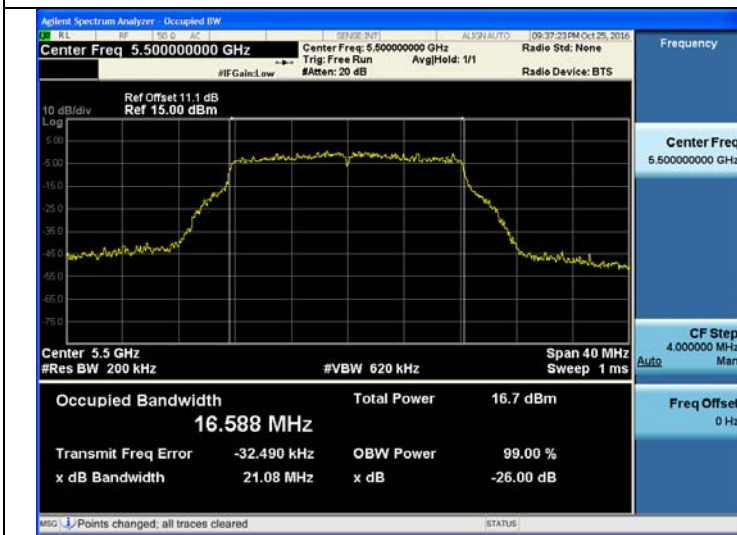
802.11a UNII 1 BAND 26dB Bandwidth (CH48)



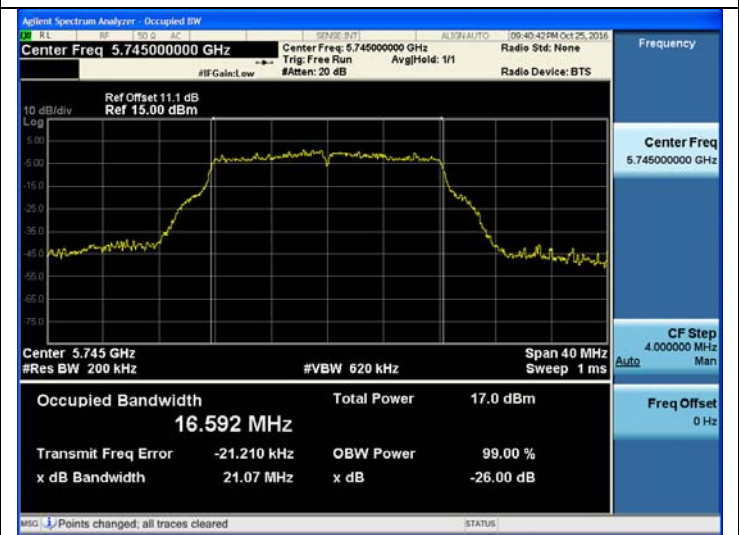
802.11a UNII 2A BAND 26dB Bandwidth (CH 64)



802.11a UNII 2C BAND 26dB Bandwidth (CH100)



802.11a UNII 3 BAND 26dB Bandwidth (CH 149)



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for 802.11n_HT20

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	21.10	N/A	Pass
5200	40	21.26	N/A	Pass
5240	48	21.25	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	21.34	N/A	Pass
5300	60	21.38	N/A	Pass
5320	64	21.45	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

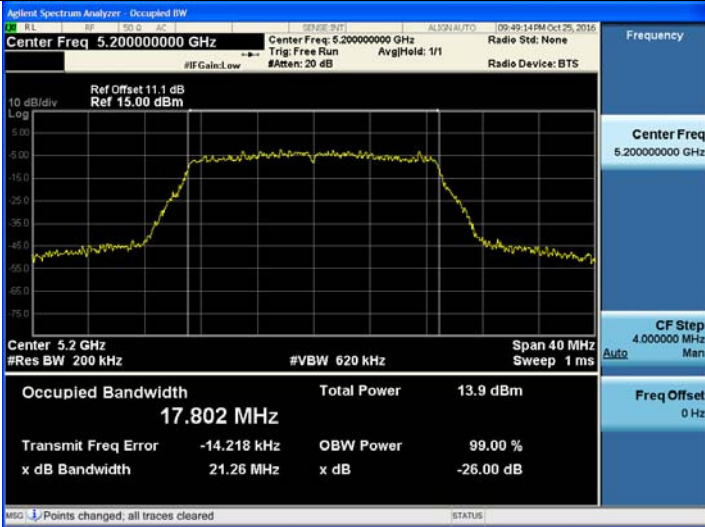
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	21.55	N/A	Pass
5580	116	21.43	N/A	Pass
5720	144	21.19	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

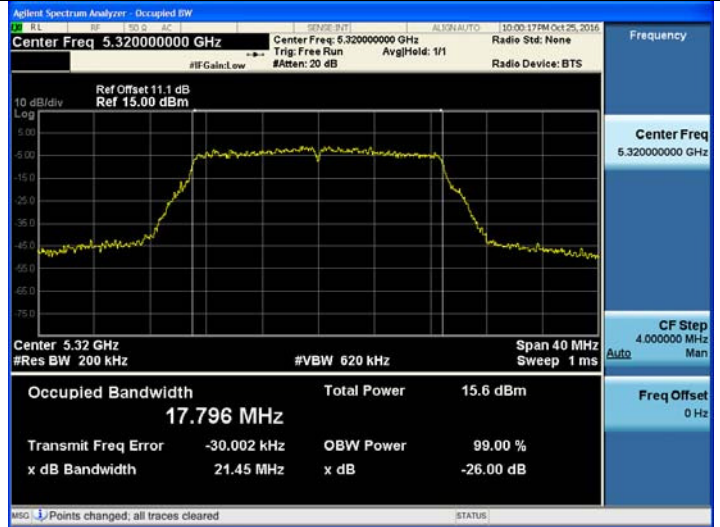
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	21.28	N/A	Pass
5785	157	21.38	N/A	Pass
5825	165	21.45	N/A	Pass

TEST Plot for 802.11n_HT20

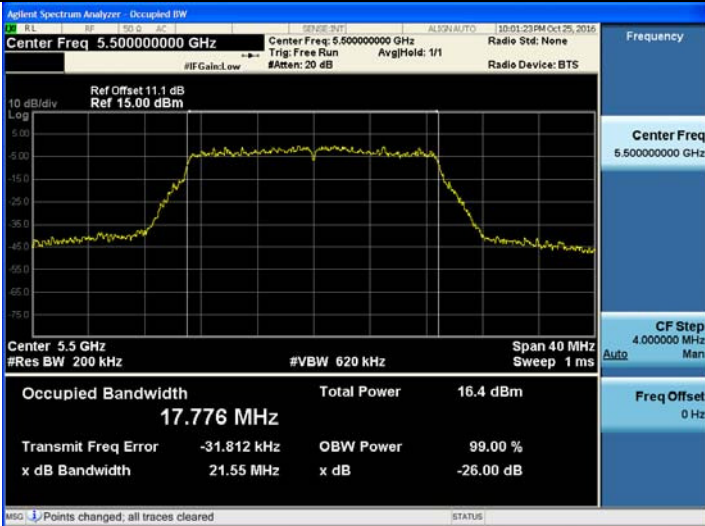
802.11n_HT20 UNII 1 BAND 26dB Bandwidth(CH 40)



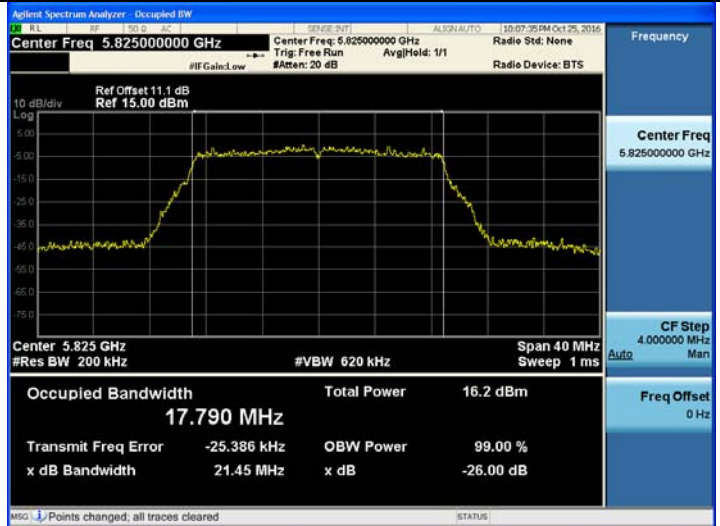
802.11n_HT20 UNII 2A BAND 26dB Bandwidth(CH 64)



802.11n_HT20 UNII 2C BAND 26dB Bandwidth(CH 100)



802.11n_HT20 UNII 3 BAND 26dB Bandwidth(CH 165)



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for 802.11ac_VHT20

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5180	36	20.99	N/A	Pass
5200	40	21.30	N/A	Pass
5240	48	21.36	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5260	52	21.51	N/A	Pass
5300	60	21.31	N/A	Pass
5320	64	21.31	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

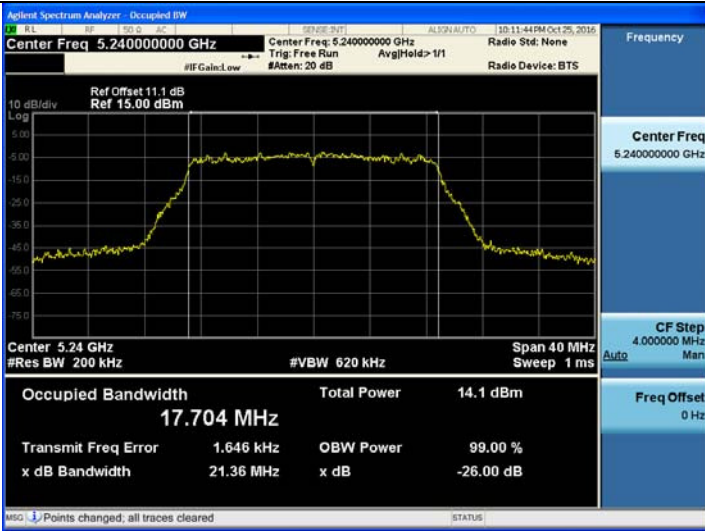
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	21.20	N/A	Pass
5580	116	21.33	N/A	Pass
5720	144	21.43	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	21.30	N/A	Pass
5785	157	21.36	N/A	Pass
5825	165	21.27	N/A	Pass

TEST Plot for 802.11ac_VHT20

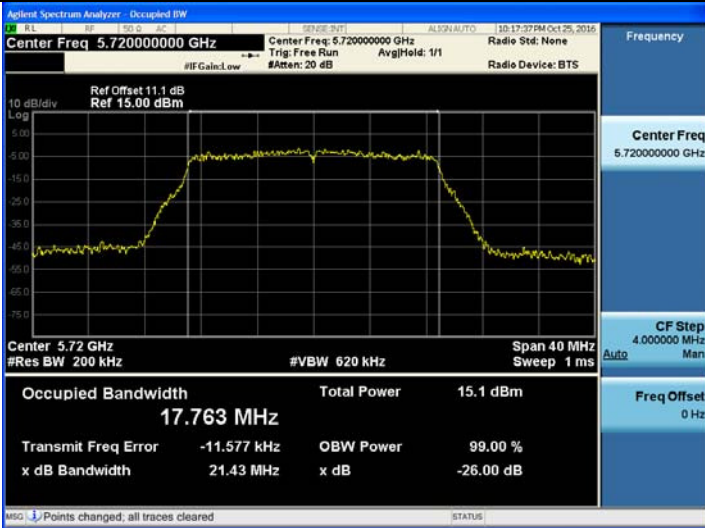
802.11ac_VHT20 UNII 1 BAND 26dB Bandwidth(CH 48)



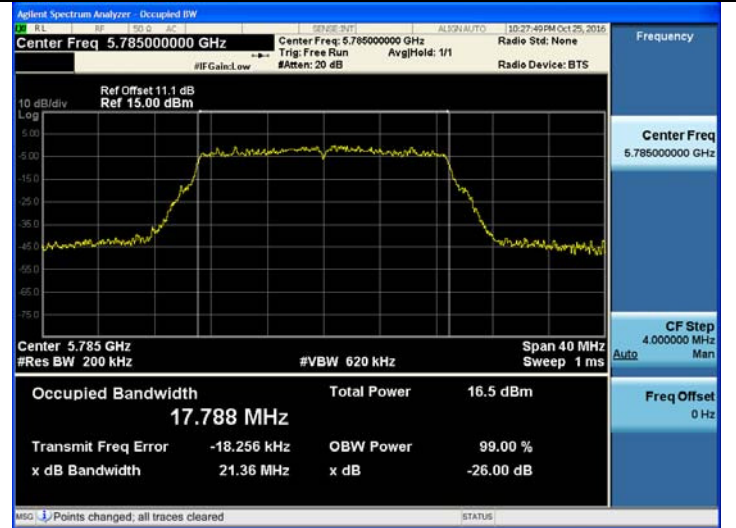
802.11ac_VHT20 UNII 2A BAND 26dB Bandwidth(CH 52)



802.11ac_VHT20 UNII 2C BAND 26dB Bandwidth(CH 144)



802.11ac_VHT20 UNII 3 BAND 26dB Bandwidth(CH 157)



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for 802.11n_HT40

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	39.59	N/A	Pass
5230	46	39.32	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	39.36	N/A	Pass
5310	62	39.71	N/A	Pass

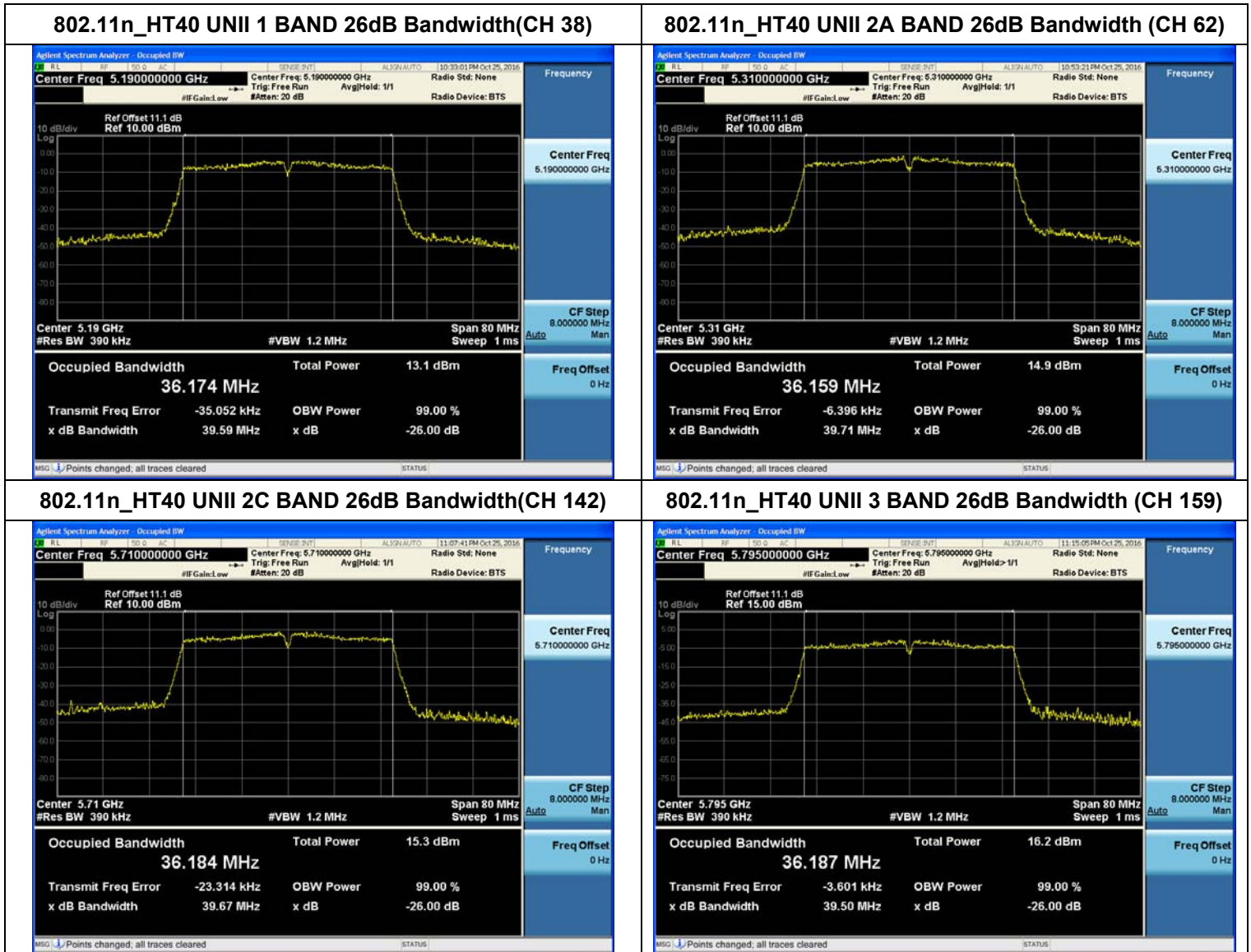
Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.52	N/A	Pass
5550	110	39.59	N/A	Pass
5710	142	39.67	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.42	N/A	Pass
5795	159	39.50	N/A	Pass

TEST Plot for 802.11n_HT40



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for 802.11ac_VHT40

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5190	38	39.55	N/A	Pass
5230	46	39.62	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5270	54	39.61	N/A	Pass
5310	62	39.36	N/A	Pass

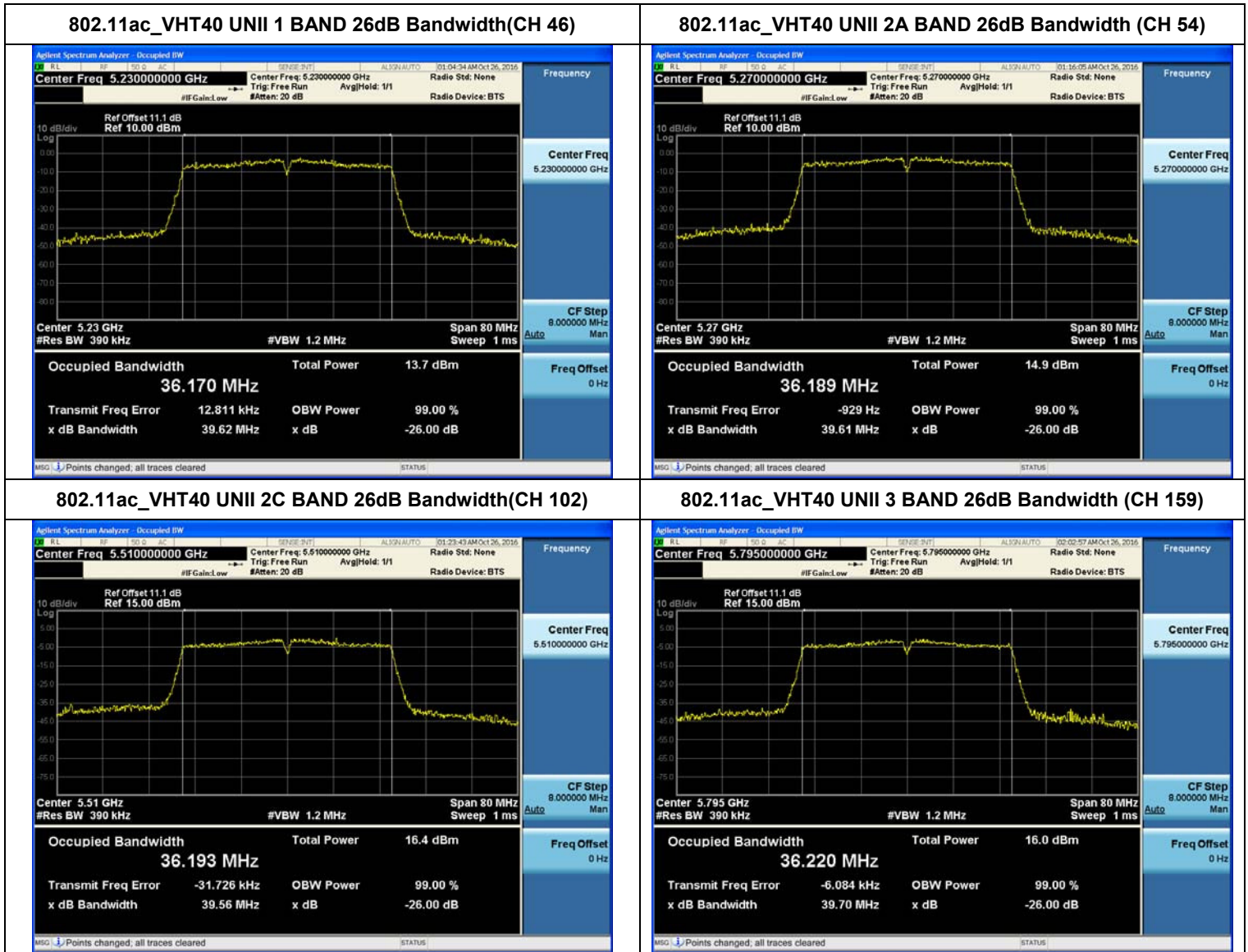
Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	39.56	N/A	Pass
5550	110	39.54	N/A	Pass
5710	142	39.51	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.65	N/A	Pass
5795	159	39.70	N/A	Pass

TEST Plot for 802.11ac_VHT40



Note : In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS for 802.11ac_VHT80**

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5210	42	80.97	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5290	58	81.32	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5530	106	80.90	N/A	Pass
5690	138	81.47	N/A	Pass

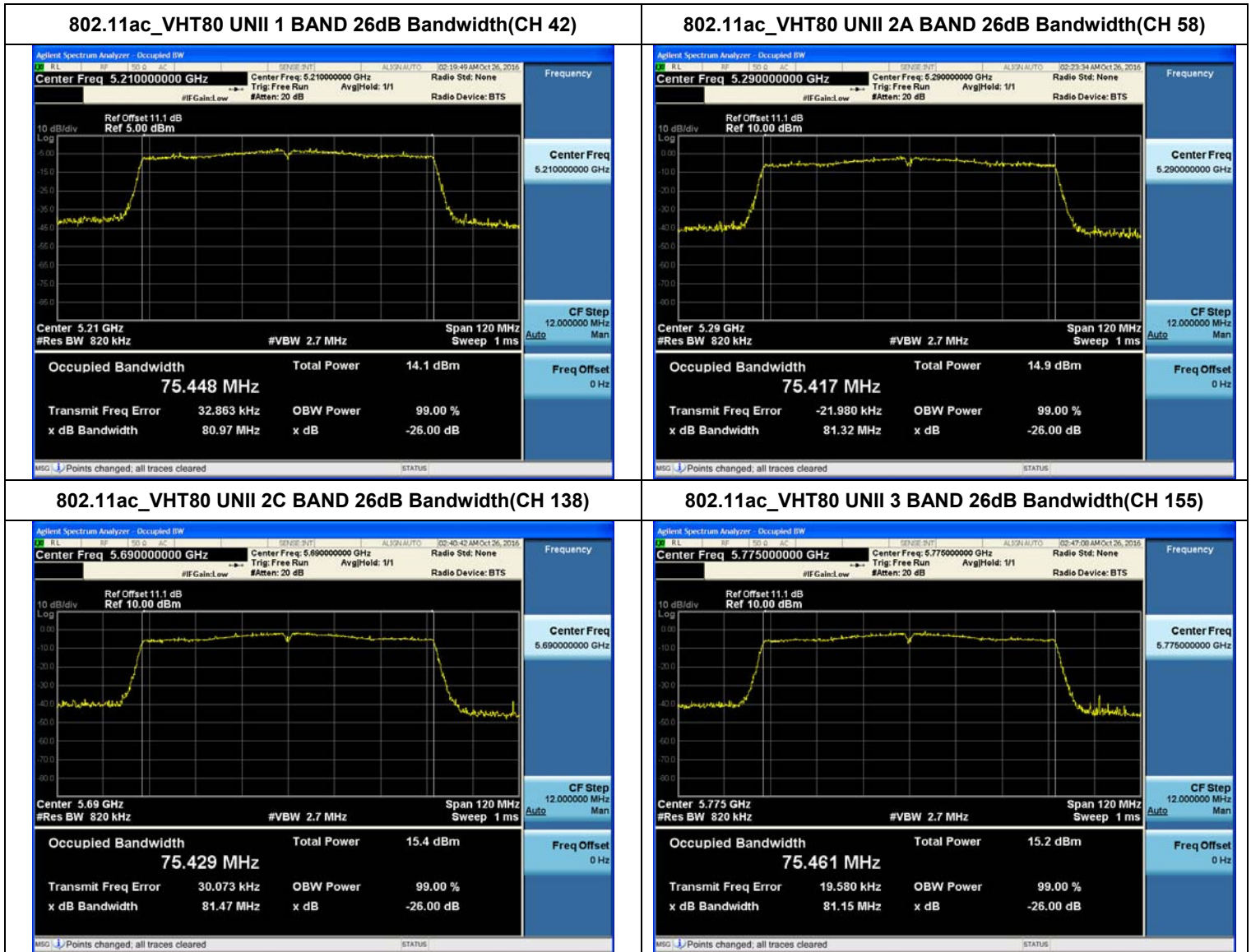
Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	81.15	N/A	Pass

Note :

1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

TEST Plot for 802.11ac_VHT80



Note : In order to simplify the report, attached plots were only the most wide channel.

■ TEST RESULTS for 802.11a/n_HT20/ac_VHT20

Conducted 6 dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	16.36	0.5	Pass
5785	157	16.33	0.5	Pass
5825	165	16.37	0.5	Pass

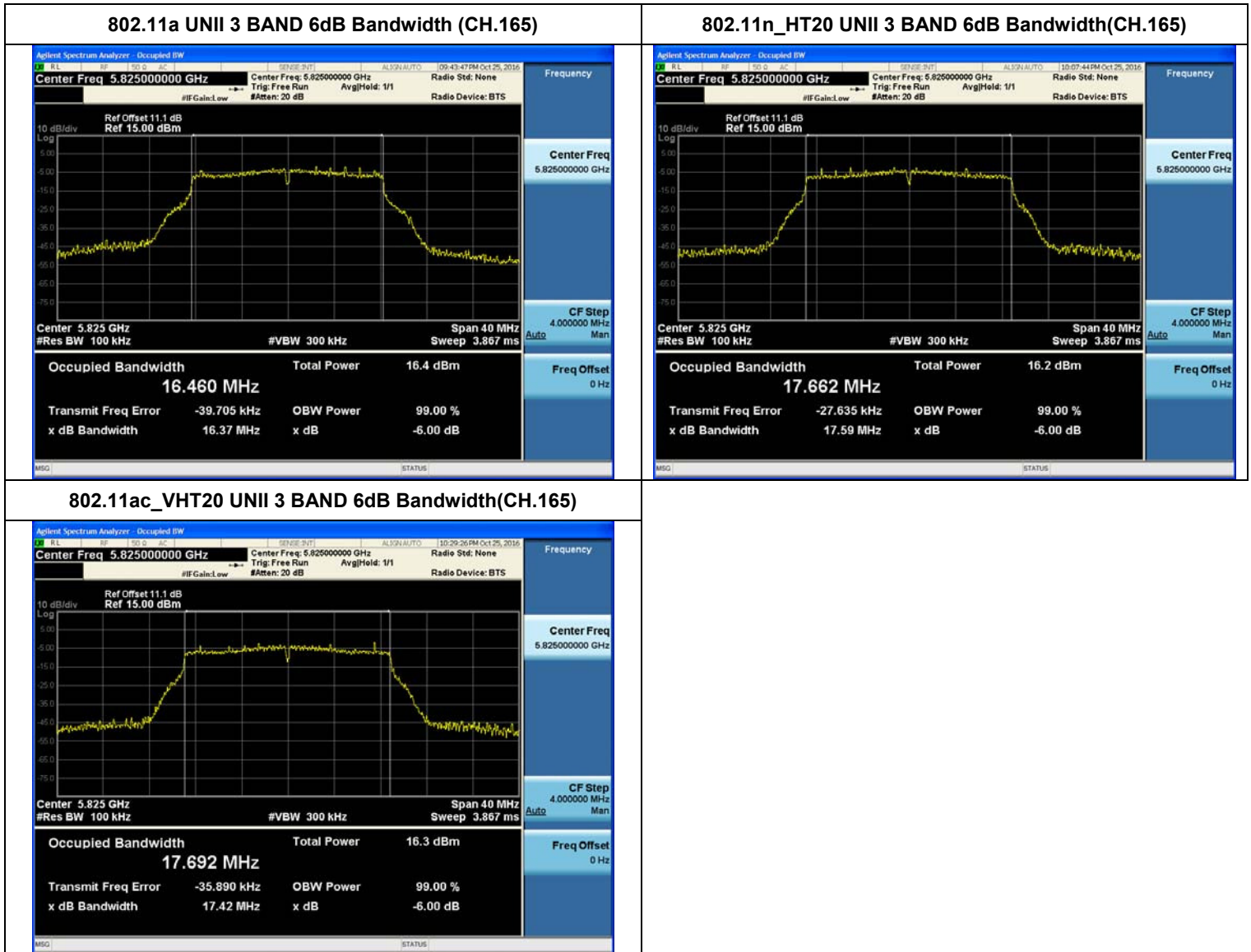
Conducted 6 dB Bandwidth Measurements for 802.11n_HT20

802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.57	0.5	Pass
5785	157	17.54	0.5	Pass
5825	165	17.59	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT20

802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	17.31	0.5	Pass
5785	157	17.21	0.5	Pass
5825	165	17.42	0.5	Pass

TEST Plot for 802.11a/n_HT20/ac_VHT20



Note : In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS for 802.11n_HT40/ac_VHT40**

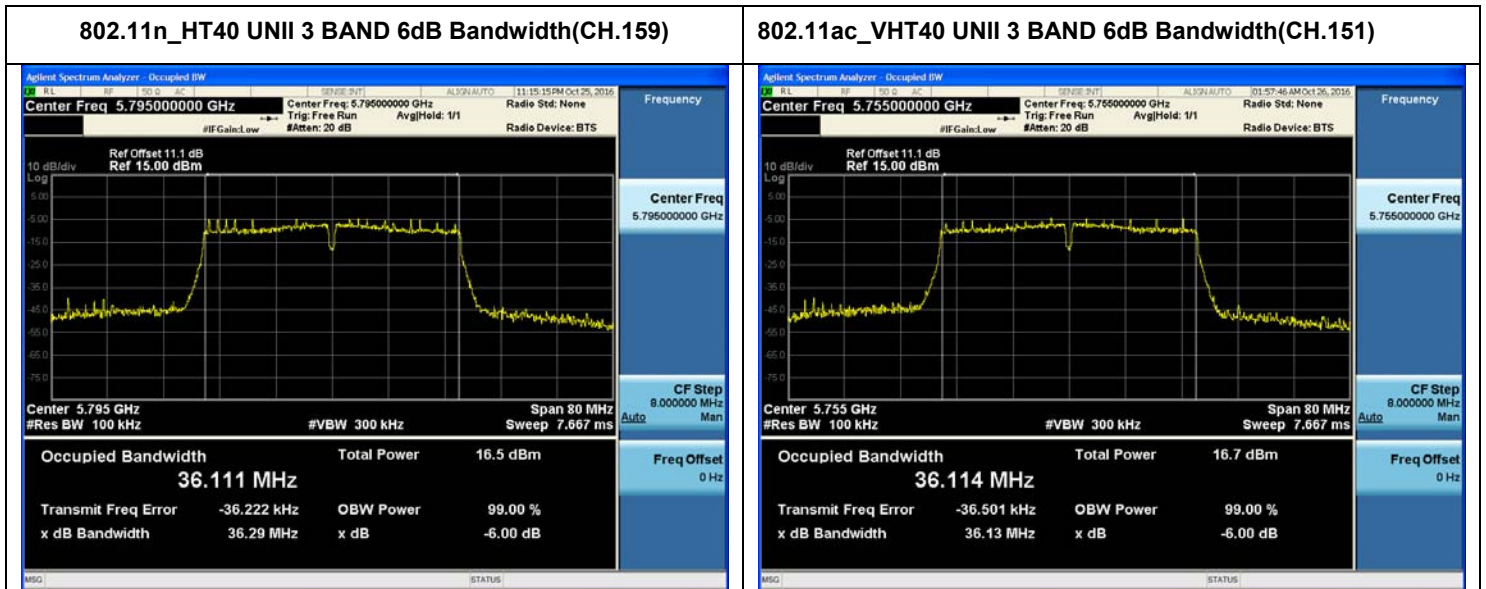
Conducted 6 dB Bandwidth Measurements for 802.11n_HT40

802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.87	0.5	Pass
5795	159	36.29	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT40

802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	36.13	0.5	Pass
5795	159	36.09	0.5	Pass

■ **TEST Plot for 802.11n_HT40/ac_VHT40**



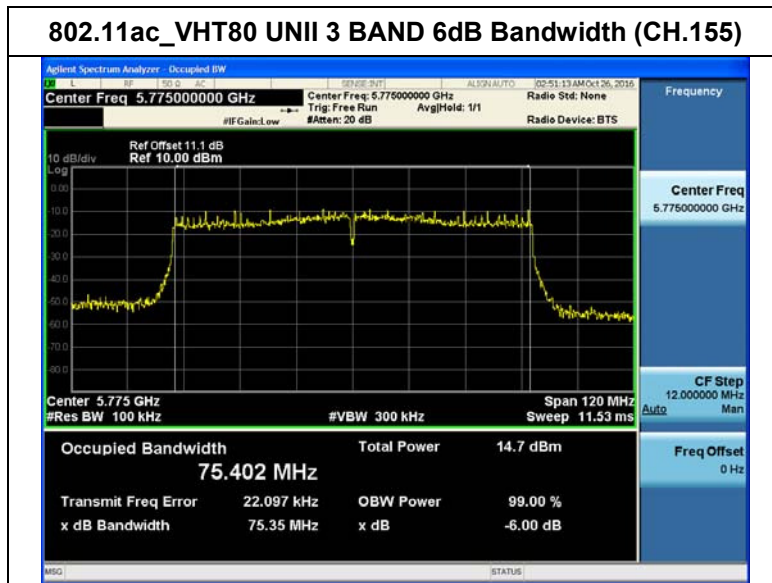
Note : In order to simplify the report, attached plots were only the most wide channel.

■ **TEST RESULTS for 802.11ac_VHT80**

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT80

802.11ac_VHT80 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5775	155	75.35	0.5	Pass

■ **TEST Plot for 802.11ac_VHT80**



Note : In order to simplify the report, attached plots were only the most wide channel.

■ **Straddle channels TEST RESULTS**

Conducted Bandwidth Measurements for 802.11a/n_HT20/ac_VHT20 (UNII 2C Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11a	5720	144	15.52	N/A	Pass
802.11n			15.72	N/A	Pass
802.11ac			15.72	N/A	Pass

Conducted Bandwidth Measurements for 802.11a/n_HT20/ac_VHT20 (UNII 3 Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11a	5720	144	5.44	N/A	Pass
802.11n			5.68	N/A	Pass
802.11ac			5.56	N/A	Pass

▣ Straddle channels TEST Plot for 802.11a/n_HT20/ac_VHT20

802.11a CH.144 Bandwidth



802.11n_HT20 CH.144 Bandwidth



802.11ac_VHT20 CH.144 Bandwidth



■ Straddle channels TEST RESULTS

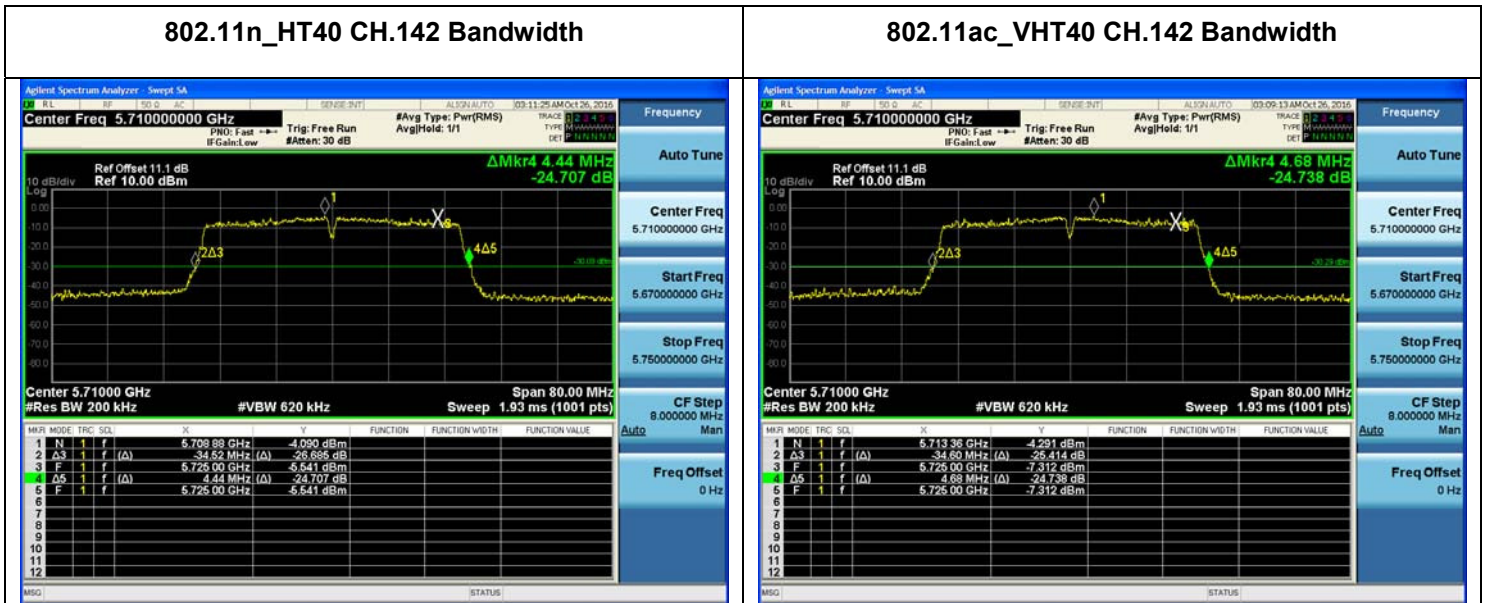
Conducted Bandwidth Measurements for 802.11n_HT40/ac_VHT40 (UNII 2C Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11n	5710	142	34.52	N/A	Pass
802.11ac			34.60	N/A	Pass

Conducted Bandwidth Measurements for 802.11n_HT40/ac_VHT40 (UNII 3 Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11n	5710	142	4.44	N/A	Pass
802.11ac			4.68	N/A	Pass

■ Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40



■ **Straddle channels TEST RESULTS**

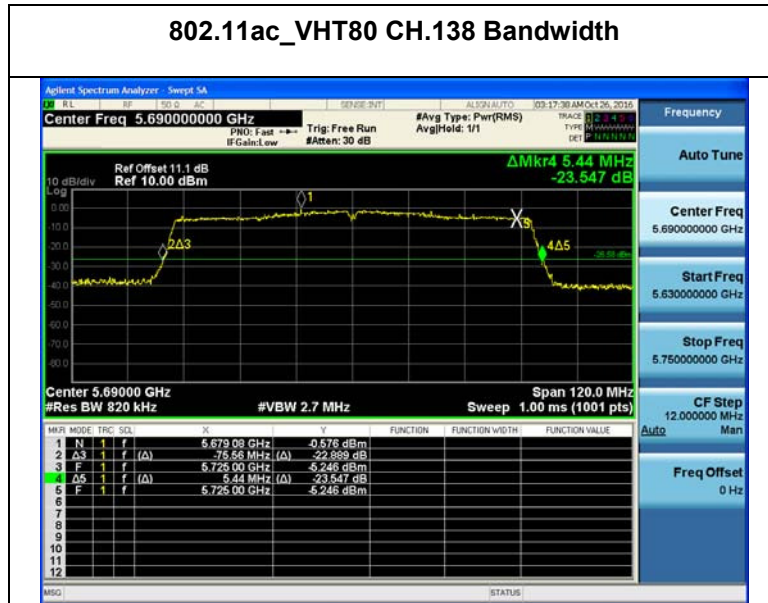
Conducted Bandwidth Measurements for 802.11ac_VHT80 (UNII 2C Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11ac	5690	138	75.56	N/A	Pass

Conducted Bandwidth Measurements for 802.11ac_VHT80 (UNII 3 Band)

Mode	Frequency [MHz]	Channel No.	Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
802.11ac	5690	138	5.44	N/A	Pass

■ **Straddle channels TEST Plot for 802.11ac_VHT80**



9.3 OUTPUT POWER MEASUREMENT

Test Requirements and limit, §15.407(a)(1)

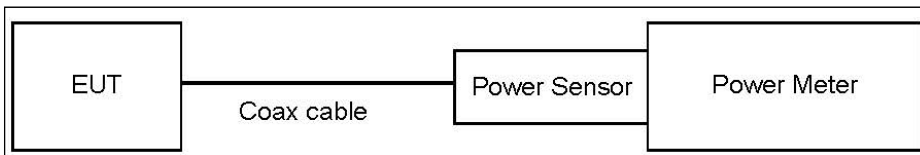
A transmitter antenna terminal of EUT is connected to the input of a Power meter or Spectrum Analyzer .Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

■ Limit

Band	Mode	Limit (dBm)
UNII 1, 2A, 2C	802.11a,n,ac	23.98
UNII 3	802.11a,n,ac	30.00

Note : According to KDB644545 D03 v01, the limit on maximum conducted output power in each U-NII band for straddle channel is computed based on the portion of the emission bandwidth contained within that band.

■ TEST CONFIGURATION(20 MHz BW)



■ TEST PROCEDURE(20 MHz BW)

- Average Power (Procedure E.3.a in KDB 789033 D02 v01r03).
 1. Measure the duty cycle.
 2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
 3. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Note :

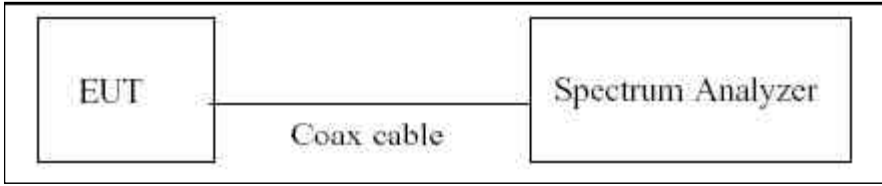
1. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1, 2A, 2C, 3	11.1

(Actual value of loss for the attenuator and cable combination)

2. In case of UNII channels 138, 142 and 144, this device is satisfied with KDB644545 D03.

■ **TEST CONFIGURATION(40 MHz BW & 80 MHz BW)**



■ **TEST PROCEDURE(40 MHz BW & 80 MHz BW)**

▪ Average Power

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function. We tested according to Method SA-2 in KDB 789033 D02 v01r03.

The Spectrum Analyzer is set to

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2*span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to "free run".
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add $10\log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

■ **Sample Calculation (Conducted)**

Output Power = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor

Note: 1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.

2. Spectrum offset = Attenuator loss + Cable loss

3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1, 2A, 2C, 3	11.1

(Actual value of loss for the attenuator and cable combination)

4. In case of UNII channels 138, 142 and 144, this device is satisfied with KDB644545 D03.

802.11a (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	8.33	0.04	8.37	23.98
		9	8.43	0.05	8.48	23.98
		12	8.40	0.05	8.45	23.98
		18	8.27	0.10	8.37	23.98
		24	8.23	0.14	8.37	23.98
		36	8.17	0.21	8.38	23.98
		48	7.85	0.28	8.13	23.98
		54	7.78	0.27	8.05	23.98
5200	40	6	8.44	0.04	8.48	23.98
		9	8.46	0.05	8.51	23.98
		12	8.41	0.05	8.46	23.98
		18	8.35	0.10	8.45	23.98
		24	8.37	0.14	8.51	23.98
		36	8.28	0.21	8.49	23.98
		48	7.83	0.28	8.11	23.98
		54	7.82	0.27	8.09	23.98
5240	48	6	8.75	0.04	8.79	23.98
		9	8.71	0.05	8.76	23.98
		12	8.69	0.05	8.74	23.98
		18	8.65	0.10	8.75	23.98
		24	8.59	0.14	8.73	23.98
		36	8.51	0.21	8.72	23.98
		48	8.04	0.28	8.32	23.98
		54	7.96	0.27	8.23	23.98

802.11a (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5260~5320)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	6	9.85	0.04	9.89	23.98
		9	9.70	0.05	9.75	23.98
		12	9.75	0.05	9.80	23.98
		18	9.77	0.10	9.87	23.98
		24	9.67	0.14	9.81	23.98
		36	9.56	0.21	9.77	23.98
		48	9.16	0.28	9.44	23.98
		54	9.08	0.27	9.35	23.98
5300	60	6	9.90	0.04	9.94	23.98
		9	9.90	0.05	9.95	23.98
		12	9.86	0.05	9.91	23.98
		18	9.87	0.10	9.97	23.98
		24	9.81	0.14	9.95	23.98
		36	9.66	0.21	9.87	23.98
		48	9.22	0.28	9.50	23.98
		54	9.13	0.27	9.40	23.98
5320	64	6	10.04	0.04	10.08	23.98
		9	10.00	0.05	10.05	23.98
		12	10.02	0.05	10.07	23.98
		18	9.90	0.10	10.00	23.98
		24	9.85	0.14	9.99	23.98
		36	9.84	0.21	10.05	23.98
		48	9.31	0.28	9.59	23.98
		54	9.30	0.27	9.57	23.98

802.11a (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5500~5720)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	6	10.37	0.04	10.41	23.98
		9	10.31	0.05	10.36	23.98
		12	10.28	0.05	10.33	23.98
		18	10.28	0.10	10.38	23.98
		24	10.38	0.14	10.52	23.98
		36	10.10	0.21	10.31	23.98
		48	9.64	0.28	9.92	23.98
		54	9.69	0.27	9.96	23.98
5580	116	6	10.07	0.04	10.11	23.98
		9	10.04	0.05	10.09	23.98
		12	9.99	0.05	10.04	23.98
		18	9.94	0.10	10.04	23.98
		24	9.89	0.14	10.03	23.98
		36	9.86	0.21	10.07	23.98
		48	8.94	0.28	9.22	23.98
		54	9.04	0.27	9.31	23.98
5720	144	6	9.28	0.04	9.32	23.98
		9	9.25	0.05	9.30	23.98
		12	9.24	0.05	9.29	23.98
		18	9.19	0.10	9.29	23.98
		24	9.16	0.14	9.30	23.98
		36	9.09	0.21	9.30	23.98
		48	8.28	0.28	8.56	23.98
		54	8.29	0.27	8.56	23.98

802.11a (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	6	10.75	0.04	10.79	30
		9	10.78	0.05	10.83	30
		12	10.70	0.05	10.75	30
		18	10.67	0.10	10.77	30
		24	10.62	0.14	10.76	30
		36	10.57	0.21	10.78	30
		48	9.99	0.28	10.27	30
		54	9.91	0.27	10.18	30
5785	157	6	10.47	0.04	10.51	30
		9	10.49	0.05	10.54	30
		12	10.48	0.05	10.53	30
		18	10.48	0.10	10.58	30
		24	10.41	0.14	10.55	30
		36	10.51	0.21	10.72	30
		48	9.81	0.28	10.09	30
		54	9.70	0.27	9.97	30
5825	165	6	10.35	0.04	10.39	30
		9	10.27	0.05	10.32	30
		12	10.32	0.05	10.37	30
		18	10.26	0.10	10.36	30
		24	10.20	0.14	10.34	30
		36	10.17	0.21	10.38	30
		48	9.64	0.28	9.92	30
		54	9.49	0.27	9.76	30

802.11n_HT20 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5180~5240)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	8.02	0.04	8.06	23.98
		1	8.02	0.05	8.07	23.98
		2	7.97	0.10	8.07	23.98
		3	7.97	0.13	8.10	23.98
		4	7.88	0.20	8.08	23.98
		5	7.46	0.24	7.70	23.98
		6	7.35	0.29	7.64	23.98
		7	7.33	0.29	7.62	23.98
5200	40	0	8.13	0.04	8.17	23.98
		1	8.06	0.05	8.11	23.98
		2	7.97	0.10	8.07	23.98
		3	8.04	0.13	8.17	23.98
		4	7.94	0.20	8.14	23.98
		5	7.50	0.24	7.74	23.98
		6	7.52	0.29	7.81	23.98
		7	7.51	0.29	7.80	23.98
5240	48	0	8.28	0.04	8.32	23.98
		1	8.24	0.05	8.29	23.98
		2	8.22	0.10	8.32	23.98
		3	8.15	0.13	8.28	23.98
		4	8.22	0.20	8.42	23.98
		5	7.67	0.24	7.91	23.98
		6	7.66	0.29	7.95	23.98
		7	7.66	0.29	7.95	23.98

802.11n_HT20 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5260~5320)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	0	9.29	0.04	9.33	23.98
		1	9.30	0.05	9.35	23.98
		2	9.29	0.10	9.39	23.98
		3	9.12	0.13	9.25	23.98
		4	9.22	0.20	9.42	23.98
		5	8.81	0.24	9.05	23.98
		6	8.73	0.29	9.02	23.98
		7	8.78	0.29	9.07	23.98
5300	60	0	9.49	0.04	9.53	23.98
		1	9.45	0.05	9.50	23.98
		2	9.46	0.10	9.56	23.98
		3	9.42	0.13	9.55	23.98
		4	9.36	0.20	9.56	23.98
		5	8.81	0.24	9.05	23.98
		6	8.98	0.29	9.27	23.98
		7	8.81	0.29	9.10	23.98
5320	64	0	9.48	0.04	9.52	23.98
		1	9.58	0.05	9.63	23.98
		2	9.56	0.10	9.66	23.98
		3	9.43	0.13	9.56	23.98
		4	9.46	0.20	9.66	23.98
		5	8.95	0.24	9.19	23.98
		6	8.94	0.29	9.23	23.98
		7	8.90	0.29	9.19	23.98

802.11n_HT20 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5720)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	0	10.07	0.04	10.11	23.98
		1	10.04	0.05	10.09	23.98
		2	9.98	0.10	10.08	23.98
		3	9.87	0.13	10.00	23.98
		4	9.82	0.20	10.02	23.98
		5	9.05	0.24	9.29	23.98
		6	8.88	0.29	9.17	23.98
		7	8.96	0.29	9.25	23.98
5580	116	0	9.65	0.04	9.69	23.98
		1	9.62	0.05	9.67	23.98
		2	9.57	0.10	9.67	23.98
		3	9.57	0.13	9.70	23.98
		4	9.66	0.20	9.86	23.98
		5	8.69	0.24	8.93	23.98
		6	8.65	0.29	8.94	23.98
		7	8.66	0.29	8.95	23.98
5720	144	0	8.78	0.04	8.82	23.98
		1	8.75	0.05	8.80	23.98
		2	8.70	0.10	8.80	23.98
		3	8.67	0.13	8.80	23.98
		4	8.76	0.20	8.96	23.98
		5	7.96	0.24	8.20	23.98
		6	7.92	0.29	8.21	23.98
		7	8.00	0.29	8.29	23.98

802.11n_HT20 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5745~5825)

802.11n_HT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.37	0.04	10.41	30
		1	10.40	0.05	10.45	30
		2	10.29	0.10	10.39	30
		3	10.35	0.13	10.48	30
		4	10.27	0.20	10.47	30
		5	9.48	0.24	9.72	30
		6	9.68	0.29	9.97	30
		7	9.64	0.29	9.93	30
5785	157	0	10.13	0.04	10.17	30
		1	10.10	0.05	10.15	30
		2	10.12	0.10	10.22	30
		3	10.07	0.13	10.20	30
		4	10.02	0.20	10.22	30
		5	9.46	0.24	9.70	30
		6	9.41	0.29	9.70	30
		7	9.39	0.29	9.68	30
5825	165	0	9.96	0.04	10.00	30
		1	9.97	0.05	10.02	30
		2	9.86	0.10	9.96	30
		3	9.93	0.13	10.06	30
		4	9.85	0.20	10.05	30
		5	9.16	0.24	9.40	30
		6	9.25	0.29	9.54	30
		7	9.09	0.29	9.38	30

802.11ac_VHT20 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5180~5240)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	0	8.04	0.02	8.06	23.98
		1	7.96	0.08	8.04	23.98
		2	7.96	0.07	8.03	23.98
		3	7.98	0.12	8.10	23.98
		4	7.90	0.18	8.08	23.98
		5	7.43	0.25	7.68	23.98
		6	7.40	0.28	7.68	23.98
		7	7.40	0.31	7.71	23.98
		8	7.32	0.33	7.65	23.98
5200	40	0	8.11	0.02	8.13	23.98
		1	8.00	0.08	8.08	23.98
		2	7.96	0.07	8.03	23.98
		3	8.09	0.12	8.21	23.98
		4	7.96	0.18	8.14	23.98
		5	7.44	0.25	7.69	23.98
		6	7.53	0.28	7.81	23.98
		7	7.40	0.31	7.71	23.98
		8	7.40	0.33	7.73	23.98
5240	48	0	8.22	0.02	8.24	23.98
		1	8.24	0.08	8.32	23.98
		2	8.18	0.07	8.25	23.98
		3	8.10	0.12	8.22	23.98
		4	8.20	0.18	8.38	23.98
		5	7.72	0.25	7.97	23.98
		6	7.65	0.28	7.93	23.98
		7	7.64	0.31	7.95	23.98
		8	7.60	0.33	7.93	23.98

802.11ac_VHT20 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5260~5320)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5260	52	0	9.32	0.02	9.34	23.98
		1	9.25	0.08	9.33	23.98
		2	9.28	0.07	9.35	23.98
		3	9.22	0.12	9.34	23.98
		4	9.18	0.18	9.36	23.98
		5	8.90	0.25	9.15	23.98
		6	8.72	0.28	9.00	23.98
		7	8.74	0.31	9.05	23.98
		8	8.71	0.33	9.04	23.98
5300	60	0	9.50	0.02	9.52	23.98
		1	9.48	0.08	9.56	23.98
		2	9.43	0.07	9.50	23.98
		3	9.43	0.12	9.55	23.98
		4	9.36	0.18	9.54	23.98
		5	8.97	0.25	9.22	23.98
		6	8.81	0.28	9.09	23.98
		7	8.97	0.31	9.28	23.98
		8	8.92	0.33	9.25	23.98
5320	64	0	9.48	0.02	9.50	23.98
		1	9.64	0.08	9.72	23.98
		2	9.55	0.07	9.62	23.98
		3	9.43	0.12	9.55	23.98
		4	9.45	0.18	9.63	23.98
		5	9.09	0.25	9.34	23.98
		6	8.95	0.28	9.23	23.98
		7	9.00	0.31	9.31	23.98
		8	8.99	0.33	9.32	23.98

802.11ac_VHT20 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5500~5720)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5500	100	0	10.02	0.02	10.04	23.98
		1	9.96	0.08	10.04	23.98
		2	9.70	0.07	9.77	23.98
		3	9.91	0.12	10.03	23.98
		4	9.87	0.18	10.05	23.98
		5	9.13	0.25	9.38	23.98
		6	9.13	0.28	9.41	23.98
		7	8.97	0.31	9.28	23.98
		8	8.96	0.33	9.29	23.98
5580	116	0	9.70	0.02	9.72	23.98
		1	9.70	0.08	9.78	23.98
		2	9.65	0.07	9.72	23.98
		3	9.62	0.12	9.74	23.98
		4	9.74	0.18	9.92	23.98
		5	8.89	0.25	9.14	23.98
		6	8.68	0.28	8.96	23.98
		7	8.70	0.31	9.01	23.98
		8	8.66	0.33	8.99	23.98
5720	144	0	8.81	0.02	8.83	23.98
		1	8.94	0.08	9.02	23.98
		2	8.75	0.07	8.82	23.98
		3	8.75	0.12	8.87	23.98
		4	8.76	0.18	8.94	23.98
		5	7.99	0.25	8.24	23.98
		6	7.96	0.28	8.24	23.98
		7	7.92	0.31	8.23	23.98
		8	7.87	0.33	8.20	23.98

802.11ac_VHT20 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5745~5825)

802.11ac_VHT20 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5745	149	0	10.45	0.02	10.47	30
		1	10.30	0.08	10.38	30
		2	10.36	0.07	10.43	30
		3	10.37	0.12	10.49	30
		4	10.26	0.18	10.44	30
		5	9.72	0.25	9.97	30
		6	9.69	0.28	9.97	30
		7	9.71	0.31	10.02	30
		8	9.64	0.33	9.97	30
5785	157	0	10.20	0.02	10.22	30
		1	10.14	0.08	10.22	30
		2	10.10	0.07	10.17	30
		3	10.07	0.12	10.19	30
		4	9.94	0.18	10.12	30
		5	9.44	0.25	9.69	30
		6	9.41	0.28	9.69	30
		7	9.39	0.31	9.70	30
		8	9.39	0.33	9.72	30
5825	165	0	10.06	0.02	10.08	30
		1	10.00	0.08	10.08	30
		2	10.02	0.07	10.09	30
		3	10.00	0.12	10.12	30
		4	9.93	0.18	10.11	30
		5	9.28	0.25	9.53	30
		6	9.22	0.28	9.50	30
		7	9.27	0.31	9.58	30
		8	9.18	0.33	9.51	30

802.11n_HT40 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT40 Mode: 5190~5230)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	6.33	0.04	6.37	23.98
		1	6.17	0.08	6.24	23.98
		2	6.41	0.11	6.52	23.98
		3	6.39	0.14	6.53	23.98
		4	6.21	0.20	6.41	23.98
		5	6.15	0.26	6.41	23.98
		6	6.19	0.29	6.48	23.98
		7	6.15	0.33	6.47	23.98
5230	46	0	6.80	0.04	6.84	23.98
		1	6.75	0.08	6.82	23.98
		2	6.65	0.11	6.76	23.98
		3	6.64	0.14	6.78	23.98
		4	6.53	0.20	6.73	23.98
		5	6.58	0.26	6.84	23.98
		6	6.59	0.29	6.87	23.98
		7	6.50	0.33	6.82	23.98

802.11n_HT40 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT40 Mode: 5270~5310)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	8.00	0.04	8.04	23.98
		1	8.01	0.08	8.09	23.98
		2	7.98	0.11	8.09	23.98
		3	7.91	0.14	8.05	23.98
		4	7.82	0.20	8.02	23.98
		5	7.80	0.26	8.06	23.98
		6	7.75	0.29	8.04	23.98
		7	7.76	0.33	8.08	23.98
5310	62	0	8.22	0.04	8.26	23.98
		1	8.11	0.08	8.19	23.98
		2	8.09	0.11	8.21	23.98
		3	8.15	0.14	8.28	23.98
		4	8.12	0.20	8.32	23.98
		5	8.14	0.26	8.40	23.98
		6	8.08	0.29	8.36	23.98
		7	8.05	0.33	8.38	23.98

802.11n_HT40 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT40 Mode: 5510~5710)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	9.74	0.04	9.78	23.98
		1	9.77	0.08	9.85	23.98
		2	9.78	0.11	9.89	23.98
		3	9.73	0.14	9.87	23.98
		4	9.60	0.20	9.80	23.98
		5	9.58	0.26	9.84	23.98
		6	9.52	0.29	9.81	23.98
		7	9.55	0.33	9.87	23.98
5550	110	0	9.57	0.04	9.61	23.98
		1	9.57	0.08	9.65	23.98
		2	9.62	0.11	9.73	23.98
		3	9.56	0.14	9.70	23.98
		4	9.43	0.20	9.63	23.98
		5	9.39	0.26	9.65	23.98
		6	9.32	0.29	9.60	23.98
		7	9.32	0.33	9.64	23.98
5710	142	0	8.57	0.04	8.61	23.98
		1	8.39	0.08	8.47	23.98
		2	8.58	0.11	8.69	23.98
		3	8.32	0.14	8.46	23.98
		4	8.44	0.20	8.64	23.98
		5	8.41	0.26	8.67	23.98
		6	8.35	0.29	8.64	23.98
		7	8.35	0.33	8.67	23.98

802.11n_HT40 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11n_HT40 Mode: 5755~5795)

802.11n_HT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.72	0.04	9.76	30
		1	9.72	0.08	9.80	30
		2	9.75	0.11	9.86	30
		3	9.68	0.14	9.81	30
		4	9.57	0.20	9.77	30
		5	9.42	0.26	9.68	30
		6	9.44	0.29	9.73	30
		7	9.42	0.33	9.75	30
5795	159	0	9.53	0.04	9.57	30
		1	9.58	0.08	9.65	30
		2	9.38	0.11	9.49	30
		3	9.30	0.14	9.43	30
		4	9.37	0.20	9.57	30
		5	9.35	0.26	9.61	30
		6	9.34	0.29	9.63	30
		7	9.32	0.33	9.64	30

TEST Plot _802.11n_HT40

**802.11n_HT40 UNII 1 BAND Average Power
(5190 MHz ~5230 MHz) CH 46 MCS6**



**802.11n_HT40 UNII 2A BAND Average Power
(5270 MHz ~5310 MHz) CH 62 MCS5**



**802.11n_HT40 UNII 2C BAND Average Power
(5510 MHz ~5710 MHz) CH 102 MCS2**



**802.11n_HT40 UNII 3 BAND Average Power
(5755 MHz ~5795 MHz) CH 151 MCS2**



802.11ac_VHT40 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5190~5230)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5190	38	0	6.51	0.04	6.55	23.98
		1	6.52	0.08	6.60	23.98
		2	6.50	0.11	6.62	23.98
		3	6.38	0.14	6.53	23.98
		4	6.43	0.21	6.64	23.98
		5	6.35	0.27	6.62	23.98
		6	6.34	0.27	6.61	23.98
		7	6.32	0.32	6.64	23.98
		8	6.28	0.37	6.65	23.98
		9	6.25	0.41	6.66	23.98
5230	46	0	7.01	0.04	7.05	23.98
		1	6.89	0.08	6.97	23.98
		2	6.85	0.11	6.96	23.98
		3	6.82	0.14	6.96	23.98
		4	6.77	0.21	6.98	23.98
		5	6.63	0.27	6.90	23.98
		6	6.69	0.27	6.96	23.98
		7	6.67	0.32	6.99	23.98
		8	6.62	0.37	6.99	23.98
		9	6.61	0.41	7.01	23.98

802.11ac_VHT40 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5270~5310)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5270	54	0	8.15	0.04	8.19	23.98
		1	8.07	0.08	8.15	23.98
		2	8.02	0.11	8.13	23.98
		3	8.01	0.14	8.15	23.98
		4	7.95	0.21	8.16	23.98
		5	7.92	0.27	8.18	23.98
		6	7.96	0.27	8.23	23.98
		7	7.92	0.32	8.24	23.98
		8	7.78	0.37	8.16	23.98
		9	7.77	0.41	8.18	23.98
5310	62	0	8.39	0.04	8.43	23.98
		1	8.34	0.08	8.41	23.98
		2	8.21	0.11	8.33	23.98
		3	8.22	0.14	8.37	23.98
		4	8.18	0.21	8.39	23.98
		5	8.15	0.27	8.42	23.98
		6	8.13	0.27	8.40	23.98
		7	8.11	0.32	8.43	23.98
		8	7.99	0.37	8.36	23.98
		9	7.99	0.41	8.40	23.98

802.11ac_VHT40 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5510~5710)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5510	102	0	9.74	0.04	9.78	23.98
		1	9.78	0.08	9.86	23.98
		2	9.75	0.11	9.87	23.98
		3	9.77	0.14	9.92	23.98
		4	9.59	0.21	9.79	23.98
		5	9.55	0.27	9.82	23.98
		6	9.49	0.27	9.76	23.98
		7	9.48	0.32	9.80	23.98
		8	9.39	0.37	9.76	23.98
		9	9.35	0.41	9.76	23.98
5550	110	0	9.81	0.04	9.85	23.98
		1	9.55	0.08	9.63	23.98
		2	9.51	0.11	9.62	23.98
		3	9.49	0.14	9.64	23.98
		4	9.60	0.21	9.81	23.98
		5	9.50	0.27	9.76	23.98
		6	9.46	0.27	9.73	23.98
		7	9.46	0.32	9.78	23.98
		8	9.36	0.37	9.74	23.98
		9	9.36	0.41	9.77	23.98
5710	142	0	8.44	0.04	8.48	23.98
		1	8.44	0.08	8.52	23.98
		2	8.39	0.11	8.51	23.98
		3	8.37	0.14	8.52	23.98
		4	8.26	0.21	8.47	23.98
		5	8.22	0.27	8.49	23.98
		6	8.24	0.27	8.51	23.98
		7	8.37	0.32	8.69	23.98
		8	8.29	0.37	8.66	23.98
		9	8.06	0.41	8.46	23.98

802.11ac_VHT40 (UNII 3)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5755~5795)

802.11ac_VHT40 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5755	151	0	9.77	0.04	9.81	30
		1	9.80	0.08	9.88	30
		2	9.75	0.11	9.87	30
		3	9.73	0.14	9.88	30
		4	9.63	0.21	9.83	30
		5	9.51	0.27	9.78	30
		6	9.52	0.27	9.79	30
		7	9.52	0.32	9.84	30
		8	9.44	0.37	9.81	30
		9	9.41	0.41	9.81	30
5795	159	0	9.58	0.04	9.62	30
		1	9.57	0.08	9.65	30
		2	9.39	0.11	9.50	30
		3	9.28	0.14	9.43	30
		4	9.42	0.21	9.63	30
		5	9.41	0.27	9.67	30
		6	9.20	0.27	9.47	30
		7	9.35	0.32	9.67	30
		8	9.27	0.37	9.65	30
		9	9.30	0.41	9.70	30

■ TEST Plot _802.11ac_VHT40

**802.11ac_VHT40 UNII 1 BAND Average Power
(5190 MHz ~5230 MHz) CH 46 MCS0**



**802.11ac_VHT40 UNII 2A BAND Average Power
(5270 MHz ~5310 MHz) CH 62 MCS0**



**802.11ac_VHT40 UNII 2C BAND Average Power
(5510 MHz ~5710 MHz) CH 102 MCS3**



**802.11ac_VHT40 UNII 3 BAND Average Power
(5755 MHz ~5795 MHz) CH 151 MCS3**



802.11ac_VHT80 (UNII 1)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5210)

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5210	42	0	6.62	0.08	6.70	23.98
		1	6.57	0.15	6.72	23.98
		2	6.48	0.24	6.72	23.98
		3	6.46	0.29	6.74	23.98
		4	6.40	0.39	6.80	23.98
		5	5.89	0.47	6.36	23.98
		6	5.86	0.53	6.39	23.98
		7	5.86	0.55	6.41	23.98
		8	5.78	0.62	6.40	23.98
		9	5.75	0.66	6.41	23.98

802.11ac_VHT80 (UNII 2A)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5290)

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5290	58	0	7.41	0.08	7.48	23.98
		1	7.34	0.15	7.48	23.98
		2	7.22	0.24	7.46	23.98
		3	7.16	0.29	7.45	23.98
		4	7.07	0.39	7.47	23.98
		5	6.72	0.47	7.19	23.98
		6	6.62	0.53	7.16	23.98
		7	6.59	0.55	7.14	23.98
		8	6.53	0.62	7.15	23.98
		9	6.54	0.66	7.20	23.98

802.11ac_VHT80 (UNII 2C)

■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5530 ~ 5690 MHz)

802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5530	106	0	8.97	0.08	9.05	23.98
		1	8.89	0.15	9.04	23.98
		2	8.87	0.24	9.12	23.98
		3	8.82	0.29	9.11	23.98
		4	8.76	0.39	9.15	23.98
		5	8.39	0.47	8.86	23.98
		6	8.32	0.53	8.85	23.98
		7	8.28	0.55	8.83	23.98
		8	8.23	0.62	8.85	23.98
		9	8.01	0.66	8.67	23.98
5690	138	0	8.03	0.08	8.11	23.98
		1	8.04	0.15	8.19	23.98
		2	8.00	0.24	8.24	23.98
		3	7.91	0.29	8.20	23.98
		4	7.81	0.39	8.20	23.98
		5	7.49	0.47	7.96	23.98
		6	7.41	0.53	7.94	23.98
		7	7.41	0.55	7.96	23.98
		8	7.27	0.62	7.89	23.98
		9	7.29	0.66	7.95	23.98

802.11ac_VHT80 (UNII 3)

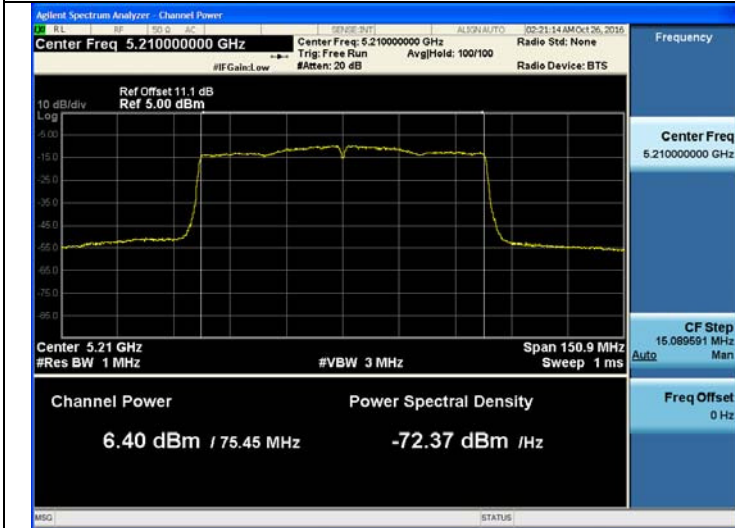
■ TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5775 MHz)

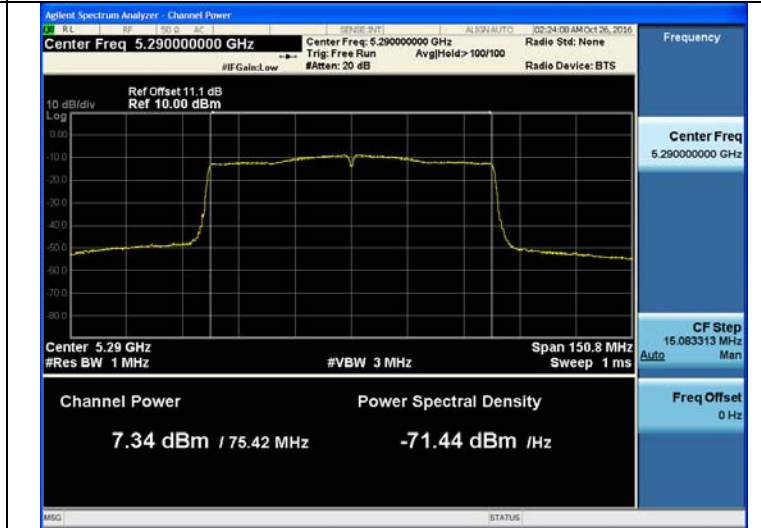
802.11ac_VHT80 Mode		MCS Index	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5775	155	0	7.89	0.08	7.96	30
		1	7.81	0.15	7.96	30
		2	7.76	0.24	8.00	30
		3	7.71	0.29	8.00	30
		4	7.56	0.39	7.96	30
		5	7.24	0.47	7.71	30
		6	7.18	0.53	7.71	30
		7	7.15	0.55	7.70	30
		8	7.03	0.62	7.66	30
		9	7.05	0.66	7.71	30

■ TEST Plot for 802.11ac_VHT80

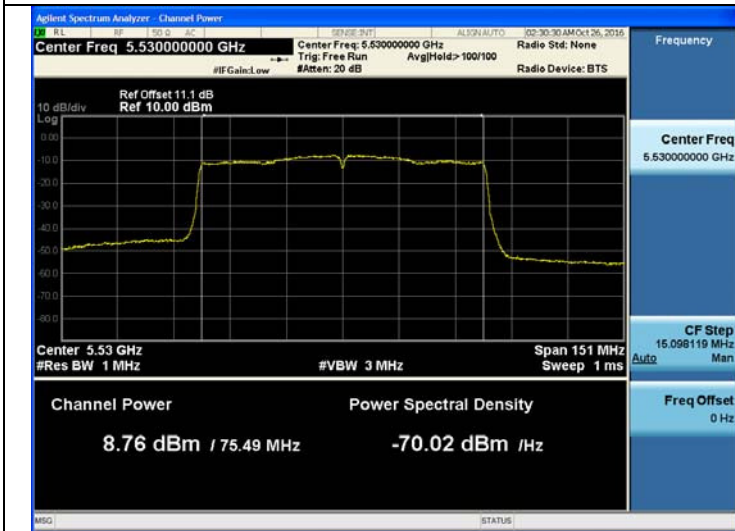
**802.11ac_VHT80 UNII 1 BAND Average Power
(5210 MHz) CH 42 MCS4**



**802.11ac_VHT80 UNII 2A BAND Average Power
(5290 MHz) CH 58 MCS1**



**802.11ac_VHT80 UNII 2C BAND Average Power
(5530 ~ 5690 MHz) CH 106 MCS4**



**802.11ac_VHT80 UNII 3 BAND Average Power
(5775 MHz) CH 155 MCS2**

