

FCC UNII REPORT

FCC Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Date of Issue:
February 03, 2017

Address:
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

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

Report No.: HCT-R-1702-F005

HCT FRN: 0005866421

FCC ID : A3LSMW727V

APPLICANT : SAMSUNG Electronics Co., Ltd.

Model: SM-W727V

EUT Type: Tablet

Modulation type OFDM

FCC Classification: Unlicensed National Information Infrastructure(UNII)

FCC Rule Part(s): Part 15.407

Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	Ant.0 Power (dBm)	Ant.1 Power (dBm)	Ant. 0 & 1 Power (dBm)
UNII1	802.11a	20	5180 – 5240	11.82	11.76	14.80
	802.11n	20	5180 – 5240	10.94	10.91	13.94
	802.11n	40	5190 - 5230	9.46	9.54	12.51
	802.11ac	20	5180 – 5240	10.80	10.79	13.81
	802.11ac	40	5190 - 5230	9.51	9.44	12.49
	802.11ac	80	5210	9.84	10.11	12.99
UNII2A	802.11a	20	5260 – 5320	11.81	11.80	14.82
	802.11n	20	5260 – 5320	10.93	11.03	13.99
	802.11n	40	5270 – 5310	9.64	9.74	12.70
	802.11ac	20	5260 – 5320	10.82	10.72	13.78
	802.11ac	40	5270 – 5310	9.66	9.69	12.69
	802.11ac	80	5290	9.88	10.13	13.02
UNII2C	802.11a	20	5500 – 5700	11.81	12.14	14.99
	802.11n	20	5500 – 5700	10.99	11.26	14.14
	802.11n	40	5510 – 5670	9.84	10.03	12.95
	802.11ac	20	5500 – 5700	10.76	11.07	13.93
	802.11ac	40	5510 – 5670	9.75	9.99	12.88
	802.11ac	80	5530	9.88	9.95	12.93
UNII3	802.11a	20	5745 – 5825	11.89	12.11	15.01
	802.11n	20	5745 – 5825	10.94	11.01	13.99
	802.11n	40	5755 – 5795	10.01	9.82	12.93
	802.11ac	20	5745 – 5825	10.85	10.97	13.92
	802.11ac	40	5755 – 5795	10.00	9.77	12.90
	802.11ac	80	5775	9.49	10.00	12.76

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
: Kyung Soo Kang
Test Engineer of RF Team



Approved by
: Jong Seok Lee
Manager of RF Team

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1702-F005	February 03, 2017	- First Approval Report

Table of Contents

1. GENERAL INFORMATION	5 #
2. EUT DESCRIPTION	5 #
2.1 EUT OPERATING MODE	6 #
3. TEST METHODOLOGY	7 #
3.1 EUT CONFIGURATION	7 #
3.2 EUT EXERCISE	7 #
3.3 GENERAL TEST PROCEDURES	7 #
3.4 DESCRIPTION OF TEST MODES	7 #
4. INSTRUMENT CALIBRATION.....	8 #
5. FACILITIES AND ACCREDITATIONS	8 #
5.1 FACILITIES	8 #
5.2 EQUIPMENT	8 #
6. ANTENNA REQUIREMENTS	8 #
7. MEASUREMENT UNCERTAINTY	10 #
8. SUMMARY OF TEST RESULTS	11 #
9. TEST RESULT	12 #
9.1 DUTY CYCLE.....	12 #
9.2 EMISSION BANDWIDTH AND MINIMUM EMISSION BANDWIDTH MEASUREMENT	16 #
9.3 OUTPUT POWER MEASUREMENT	50 #
9.4 POWER SPECTRAL DENSITY	127 #
9.5 FREQUENCY STABILITY	156 #
9.6 RADIATED MEASUREMENT.....	180 #
9.6.1 RADIATED SPURIOUS EMISSIONS.....	180 #
9.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS	308 #
9.7 POWERLINE CONDUCTED EMISSIONS	343 #
10. LIST OF TEST EQUIPMENT	352 #
10.1 LIST OF TEST EQUIPMENT(Conducted Test)	352 #
10.2 LIST OF TEST EQUIPMENT(Radiated Test).....	353 #

1. GENERAL INFORMATION

Applicant: SAMSUNG Electronics Co.,Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID: A3LSMW727V
EUT Type: Tablet
Model: SM-W727V
Date(s) of Tests: December 22, 2016 ~ February 3, 2017
Place of Tests: HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

2. EUT DESCRIPTION

Model	SM-W727V	
EUT Type	Tablet	
Power Supply	DC 7.7 V	
Battery Information	Model: EB-BW720ABA Type: Li-ion Battery	
Frequency Range	TX_20 MHz BW:	5180 MHz - 5240 MHz (UNII 1) / 5260 MHz - 5320 MHz (UNII 2A)/ 5500 MHz - 5700 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 - 5670 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz (UNII 1) / 5290 MHz (UNII 2A)/ 5530 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 - 5700 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 - 5670 MHz (UNII 2C) / 5755 MHz - 5795 MHz (UNII 3)
	80 MHz BW:	5210 MHz (UNII 1)/ 5290 MHz (UNII 2A)/ 5530 MHz (UNII 2C)/ 5775 MHz (UNII 3)
Modulation Type	OFDM(802.11a, 802.11n, 802.11ac)	
Antenna Specification	Manufacturer: Ethertronics, Inc. Antenna type: INTERNAL ANTENNA Peak Gain : cf. Section 6	

2.1 EUT OPERATING MODE

■ Operating mode

Mode	Operating Mode	Operating Ant.
802.11a/n/ac	SISO	Ant 0
		Ant 1
	MIMO(CDD,SDM)	Ant 0 & 1

Note : In case of radiation test, we have done all test case. Worst case is MIMO(CDD, Ant 0 & 1).

So, we attached the results of only worst case.

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(Versión : 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 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

Directional Gain Calculations

- If any transmit signals are correlated with each other (CDD, 802.11a/n/ac)

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi}$$

- If all transmit signals are completely uncorrelated with each other (SDM, 802.11n/ac)

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N] \text{ dBi}$$

Antenna Gain

5GHz Band (UNII 1)

Antenna Gain	Ant 0	-0.51 dBi
	Ant 1	-2.61 dBi
Directional Antenna Gain	Ant 0 & 1	1.51 dBi

5GHz Band (UNII 2A)

Antenna Gain	Ant 0	-0.81 dBi
	Ant 1	-2.85 dBi
Directional Antenna Gain	Ant 0 & 1	1.24 dBi

5GHz Band (UNII 2C)

Antenna Gain	Ant 0	-2.49 dBi
	Ant 1	-2.53 dBi
Directional Antenna Gain	Ant 0 & 1	0.50 dBi

5GHz Band (UNII 3)

Antenna Gain	Ant 0	-1.93 dBi
	Ant 1	-2.26 dBi
Directional Antenna Gain	Ant 0 & 1	0.92 dBi

Note : This EUT is supported CDD (802.11a/n/ac) and SDM (802.11n/ac). So, we applied the CDD mode for antenna gain. Because highest gain is CDD mode and worst case is CDD mode.

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

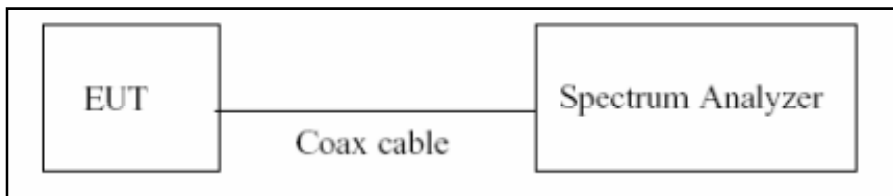
Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26dB Bandwidth	§15.407 (for Power Measurement)	N/A	CONDUCTED	PASS
6 dB Bandwidth	§15.407(e)	>500 kHz (5725-5850 MHz)		PASS
Maximum Conducted Output Power	§15.407(a)	< 250 mW (5150-5250 MHz) < 250 mW or 11+10 log log ₁₀ (BW) dBm (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)	<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	2.064	2.181	0.94620185	0.240
	9	1.383	1.495	0.92542137	0.337
	12	1.043	1.160	0.89985340	0.458
	18	0.704	0.820	0.85865969	0.662
	24	0.532	0.643	0.82726559	0.824
	36	0.364	0.475	0.76641104	1.155
	48	0.275	0.388	0.70876289	1.495
	54	0.248	0.360	0.68888889	1.619
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11n_HT20	0	1.925	2.040	0.94371997	0.252
	1	0.980	1.090	0.89875275	0.464
	2	0.668	0.779	0.85723615	0.669
	3	0.508	0.624	0.81477514	0.890
	4	0.352	0.471	0.74766333	1.263
	5	0.272	0.383	0.71061961	1.484
	6	0.248	0.359	0.69056790	1.608
	7	0.228	0.349	0.65349582	1.848
802.11n_HT40 [ANT 0]	0	0.947	1.052	0.90061137	0.455
	1	0.492	0.601	0.81836327	0.871
	2	0.340	0.450	0.75622776	1.213
	3	0.264	0.370	0.71428571	1.461
	4	0.188	0.298	0.63250958	1.989
	5	0.153	0.257	0.59304518	2.269
	6	0.140	0.245	0.57296027	2.419
	7	0.128	0.238	0.53863297	2.687
802.11n_HT40 [ANT 1]	0	0.947	1.056	0.89696970	0.472
	1	0.493	0.596	0.82629108	0.829
	2	0.341	0.445	0.76519991	1.162
	3	0.264	0.371	0.71105374	1.481
	4	0.188	0.293	0.64360826	1.914
	5	0.152	0.257	0.59188690	2.278
	6	0.141	0.245	0.57393513	2.411
	7	0.128	0.238	0.53866153	2.687

[ANT 0]

Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	MCS 0	1.933	2.045	0.94491842	0.246
	MCS 1	0.988	1.093	0.90342052	0.441
	MCS 2	0.672	0.777	0.86486486	0.631
	MCS 3	0.516	0.622	0.82892048	0.815
	MCS 4	0.356	0.461	0.77197674	1.124
	MCS 5	0.280	0.386	0.72584120	1.392
	MCS 6	0.252	0.357	0.70631002	1.510
	MCS 7	0.232	0.337	0.68894769	1.618
	MCS 8	0.200	0.310	0.64525070	1.903
802.11ac_VHT40	MCS 0	0.954	1.062	0.89759036	0.469
	MCS 1	0.496	0.601	0.82517483	0.835
	MCS 2	0.343	0.454	0.75720238	1.208
	MCS 3	0.268	0.373	0.71750153	1.442
	MCS 4	0.192	0.297	0.64669261	1.893
	MCS 5	0.156	0.266	0.58755632	2.310
	MCS 6	0.144	0.249	0.57881977	2.375
	MCS 7	0.132	0.238	0.55593795	2.550
	MCS 8	0.116	0.221	0.52495482	2.799
	MCS 9	0.112	0.217	0.51600845	2.873
802.11ac_VHT80	MCS 0	0.600	0.705	0.85031192	0.704
	MCS 1	0.320	0.424	0.75471698	1.222
	MCS 2	0.228	0.333	0.68511640	1.642
	MCS 3	0.180	0.286	0.62888811	2.014
	MCS 4	0.136	0.240	0.56613803	2.471
	MCS 5	0.112	0.217	0.51657159	2.869
	MCS 6	0.104	0.211	0.49397408	3.063
	MCS 7	0.096	0.203	0.47291644	3.252
	MCS 8	0.088	0.183	0.48036945	3.184
	MCS 9	0.084	0.180	0.46588291	3.317

[ANT 1]

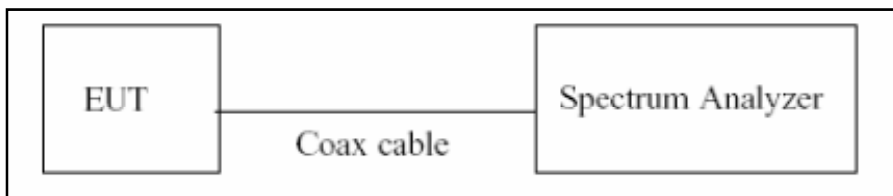
Mode	MCS INDEX	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ac_VHT20	MCS 0	1.932	2.033	0.95000320	0.223
	MCS 1	0.988	1.091	0.90530334	0.432
	MCS 2	0.672	0.777	0.86486486	0.631
	MCS 3	0.517	0.626	0.82550336	0.833
	MCS 4	0.356	0.461	0.77125450	1.128
	MCS 5	0.280	0.385	0.72815597	1.378
	MCS 6	0.252	0.359	0.70248024	1.534
	MCS 7	0.232	0.337	0.68838038	1.622
	MCS 8	0.200	0.305	0.65573770	1.833
802.11ac_VHT40	MCS 0	0.953	1.056	0.90208333	0.448
	MCS 1	0.496	0.601	0.82641464	0.828
	MCS 2	0.344	0.453	0.75889894	1.198
	MCS 3	0.268	0.382	0.70249459	1.534
	MCS 4	0.192	0.297	0.64691246	1.892
	MCS 5	0.156	0.261	0.59780545	2.234
	MCS 6	0.144	0.249	0.57743575	2.385
	MCS 7	0.132	0.237	0.55622630	2.547
	MCS 8	0.116	0.222	0.52258065	2.818
	MCS 9	0.112	0.217	0.51535241	2.879
802.11ac_VHT80	MCS 0	0.599	0.703	0.85258964	0.693
	MCS 1	0.320	0.425	0.75329567	1.230
	MCS 2	0.228	0.333	0.68509615	1.642
	MCS 3	0.180	0.286	0.63025210	2.005
	MCS 4	0.136	0.241	0.56512251	2.479
	MCS 5	0.112	0.217	0.51470791	2.884
	MCS 6	0.104	0.211	0.49494801	3.054
	MCS 7	0.096	0.203	0.47382121	3.244
	MCS 8	0.088	0.195	0.45082004	3.460
	MCS 9	0.084	0.189	0.44360891	3.530

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 Ant.0_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	18.68	N/A	Pass
5200	40	18.35	N/A	Pass
5240	48	18.50	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	18.45	N/A	Pass
5300	60	18.58	N/A	Pass
5320	64	18.54	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	18.79	N/A	Pass
5580	116	18.47	N/A	Pass
5700	140	18.69	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

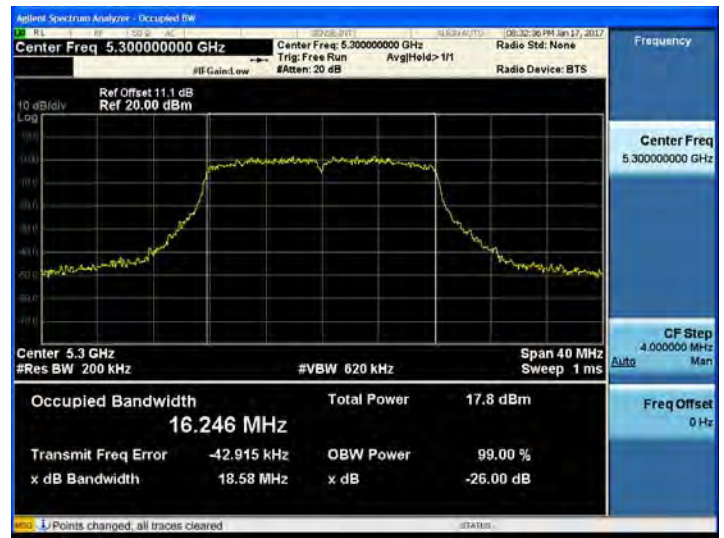
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.54	N/A	Pass
5785	157	18.40	N/A	Pass
5825	165	18.73	N/A	Pass

■ TEST Plot for Ant.0_802.11a

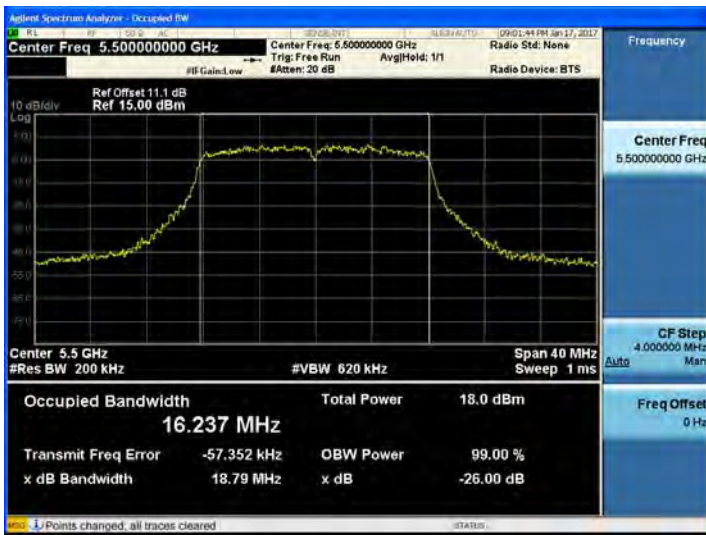
802.11a UNII 1 BAND 26dB Bandwidth (CH 36)



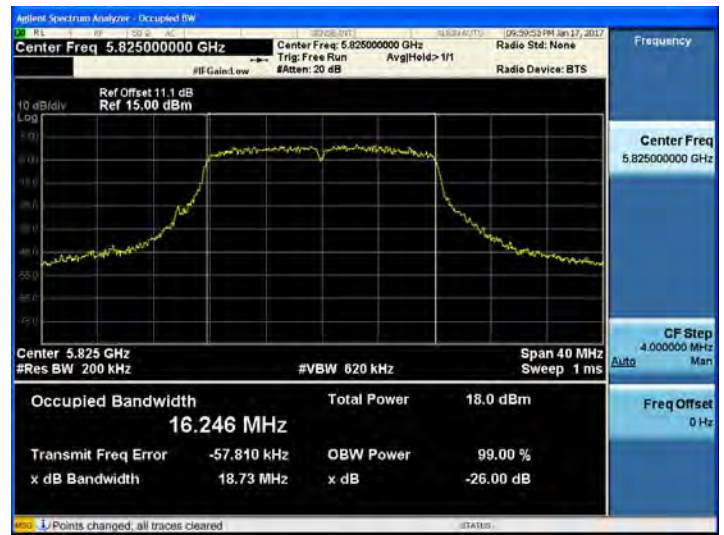
802.11a UNII 2A BAND 26dB Bandwidth (CH 60)



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



802.11a 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 Ant.1_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	18.73	N/A	Pass
5200	40	18.28	N/A	Pass
5240	48	18.46	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	18.60	N/A	Pass
5300	60	18.60	N/A	Pass
5320	64	18.71	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	18.53	N/A	Pass
5580	116	18.76	N/A	Pass
5700	140	18.54	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11a

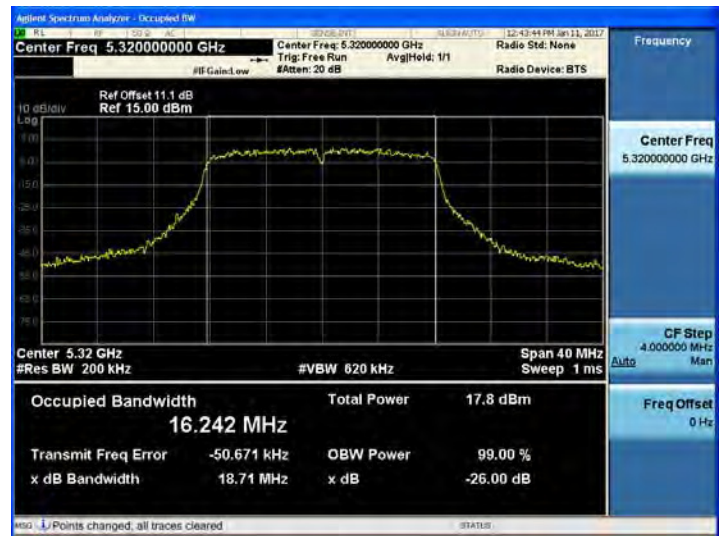
802.11a Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	18.70	N/A	Pass
5785	157	18.61	N/A	Pass
5825	165	18.64	N/A	Pass

■ TEST Plot for Ant.1_802.11a

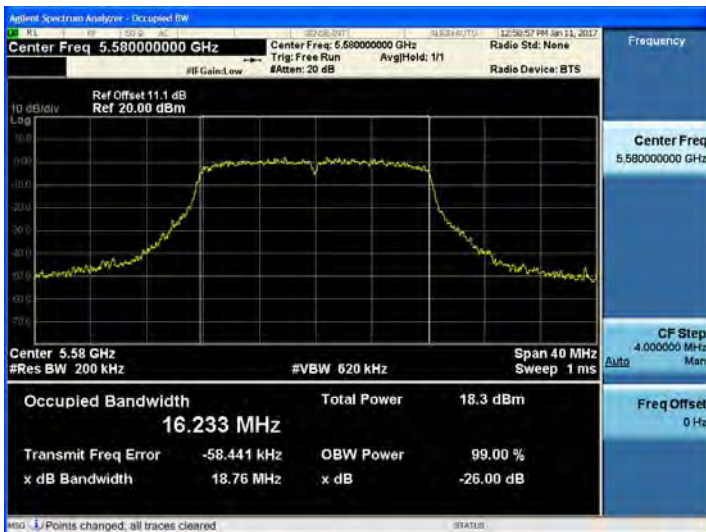
802.11a UNII 1 BAND 26dB Bandwidth (CH36)



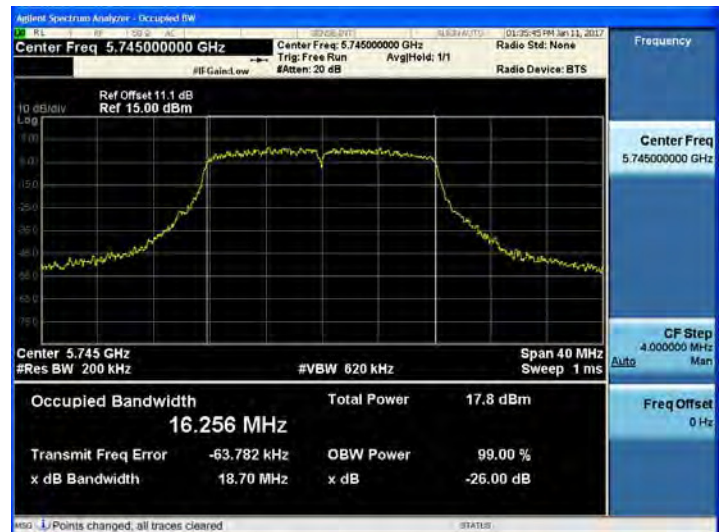
802.11a UNII 2A BAND 26dB Bandwidth (CH 64)



802.11a UNII 2C BAND 26dB Bandwidth (CH116)



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 Ant.0_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	19.67	N/A	Pass
5200	40	19.50	N/A	Pass
5240	48	19.58	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	19.59	N/A	Pass
5300	60	19.41	N/A	Pass
5320	64	19.78	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

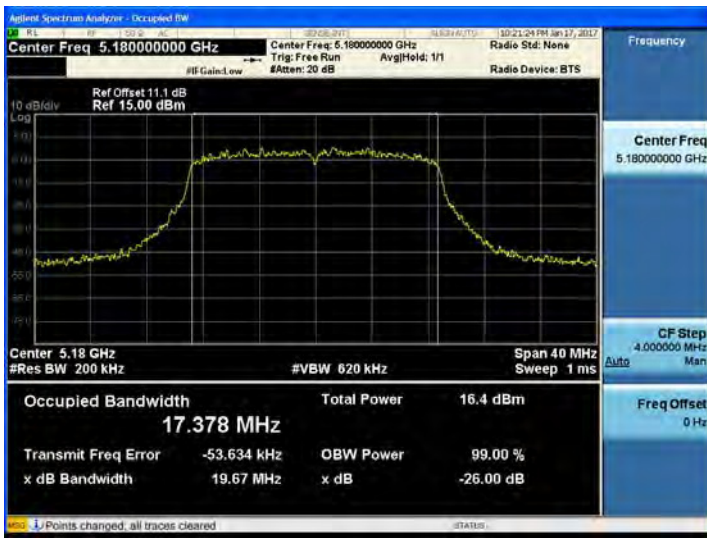
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.60	N/A	Pass
5580	116	19.48	N/A	Pass
5700	140	19.45	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

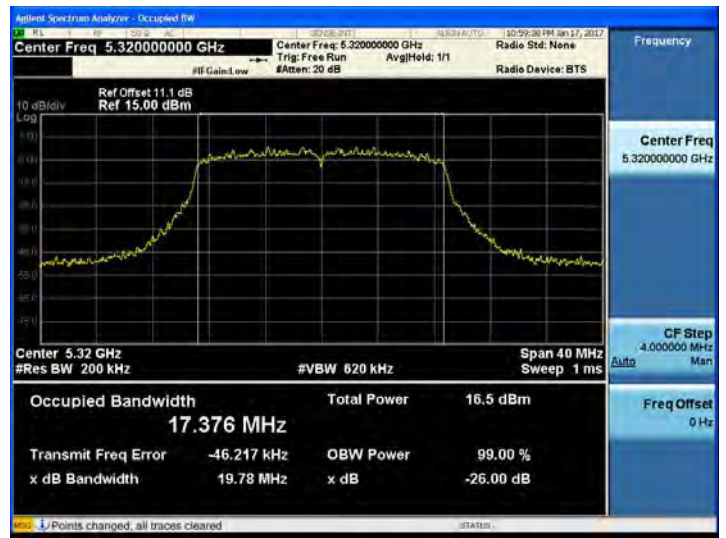
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.60	N/A	Pass
5785	157	19.52	N/A	Pass
5825	165	19.55	N/A	Pass

■ TEST Plot for Ant.0_802.11n_HT20

802.11n_HT20 UNII 1 BAND 26dB Bandwidth(CH 36)



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 149)



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

TEST RESULTS for Ant.1_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	19.74	N/A	Pass
5200	40	19.49	N/A	Pass
5240	48	19.49	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	19.53	N/A	Pass
5300	60	19.50	N/A	Pass
5320	64	19.73	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

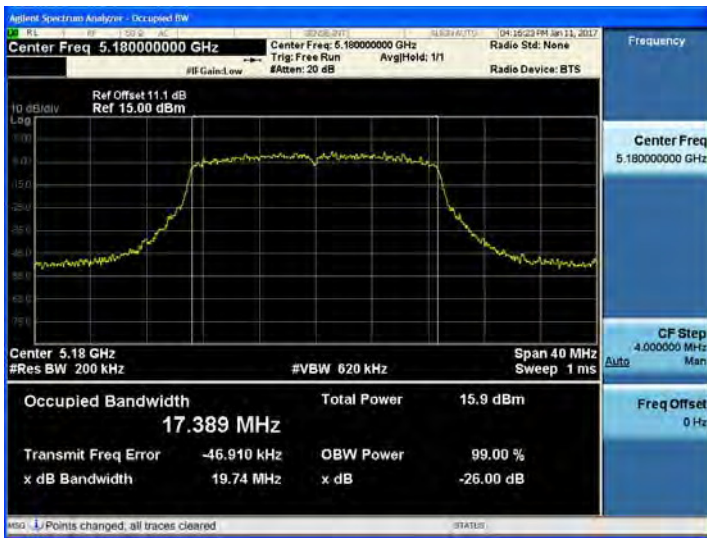
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.75	N/A	Pass
5580	116	19.73	N/A	Pass
5700	140	19.49	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT20

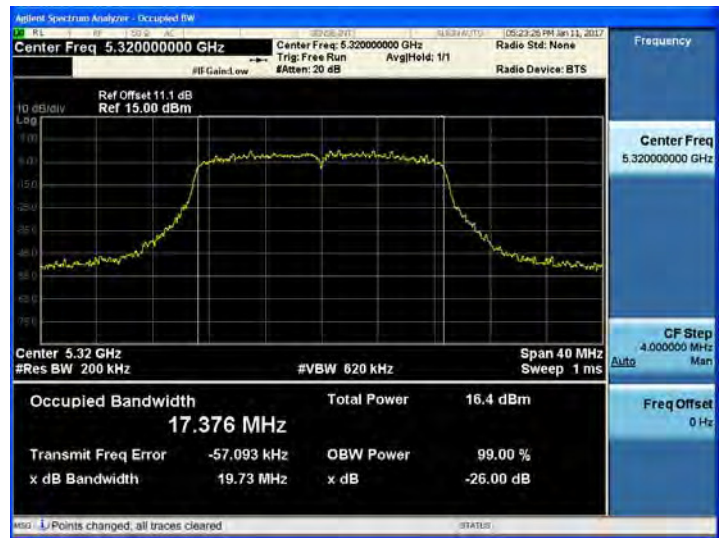
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.72	N/A	Pass
5785	157	19.72	N/A	Pass
5825	165	19.67	N/A	Pass

■ TEST Plot for Ant.1_802.11n_HT20

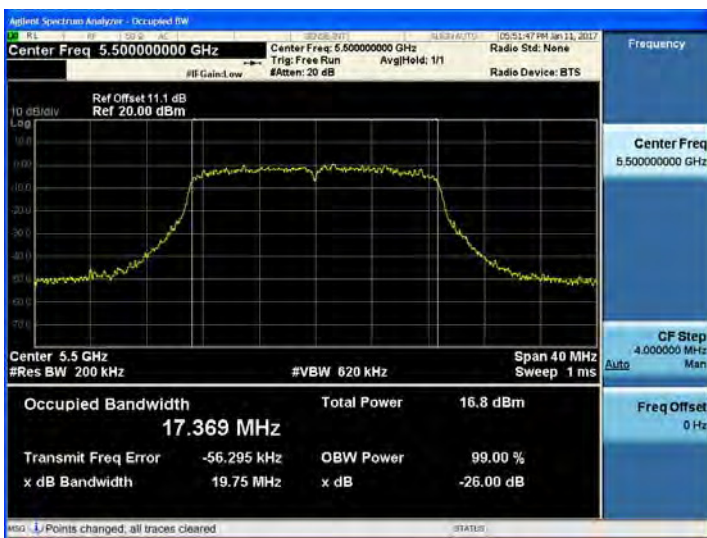
802.11n_HT20 UNII 1 BAND 26dB Bandwidth(CH 36)



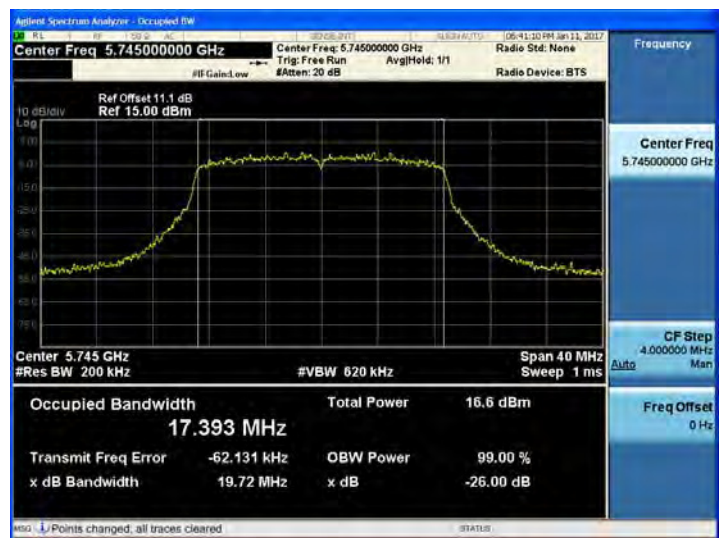
802.11n_HT20 UNII 2A BAND 26dB Bandwidth(CH 64)



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



802.11n_HT20 UNII 3 BAND 26dB Bandwidth(CH 149)



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

TEST RESULTS for Ant.0_ 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	19.63	N/A	Pass
5200	40	19.69	N/A	Pass
5240	48	19.69	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	19.53	N/A	Pass
5300	60	19.61	N/A	Pass
5320	64	19.75	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

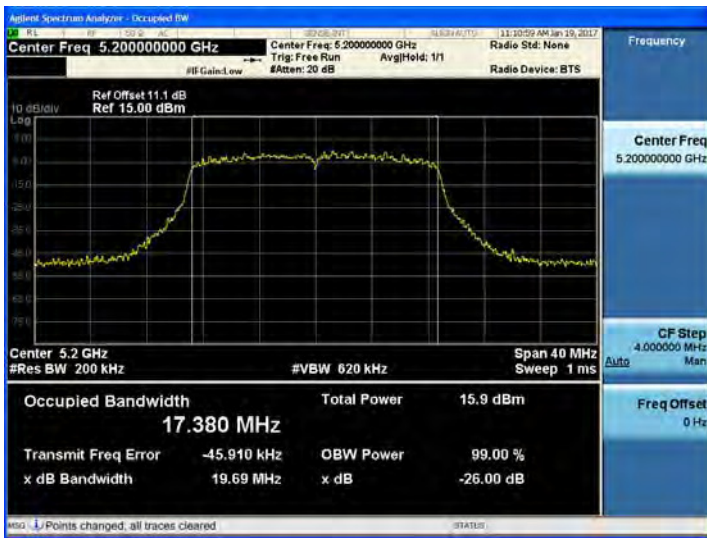
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.51	N/A	Pass
5580	116	19.68	N/A	Pass
5700	140	19.55	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

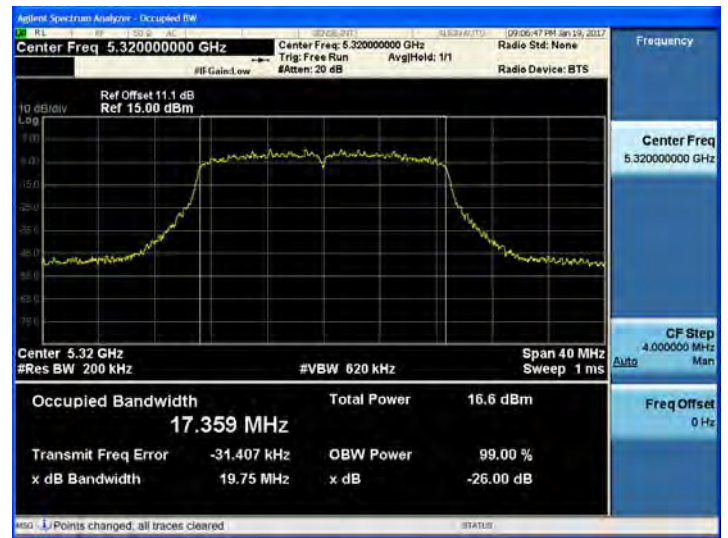
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.60	N/A	Pass
5785	157	19.65	N/A	Pass
5825	165	19.53	N/A	Pass

■ TEST Plot for Ant.0_ 802.11ac_VHT20

802.11ac_VHT20 UNII 1 BAND 26dB Bandwidth(CH 40)



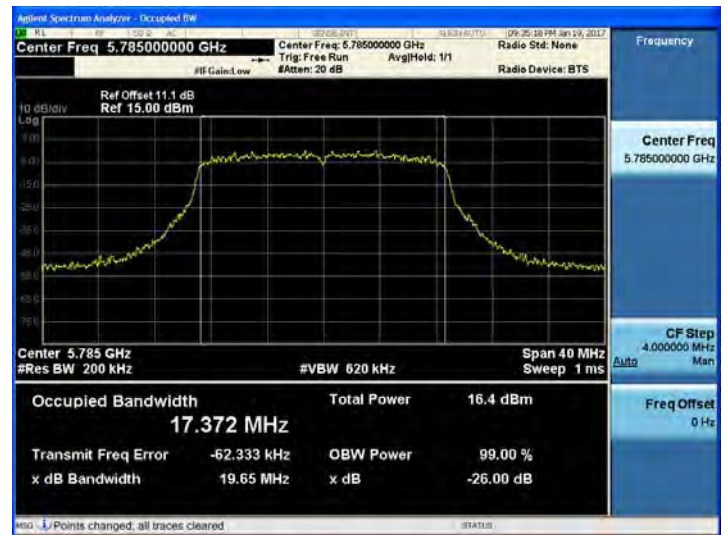
802.11ac_VHT20 UNII 2A BAND 26dB Bandwidth(CH 64)



802.11ac_VHT20 UNII 2C BAND 26dB Bandwidth(CH 116)



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 Ant.1_ 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	19.55	N/A	Pass
5200	40	19.68	N/A	Pass
5240	48	19.65	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	19.78	N/A	Pass
5300	60	19.75	N/A	Pass
5320	64	19.56	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

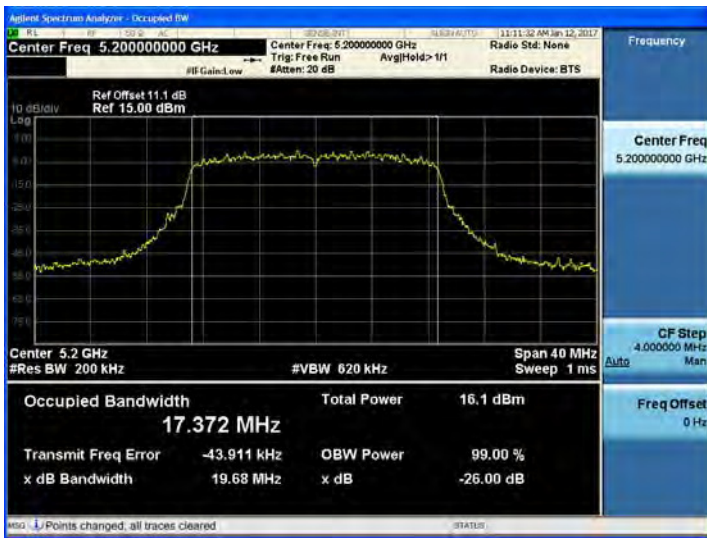
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5500	100	19.51	N/A	Pass
5580	116	19.63	N/A	Pass
5700	140	19.62	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT20

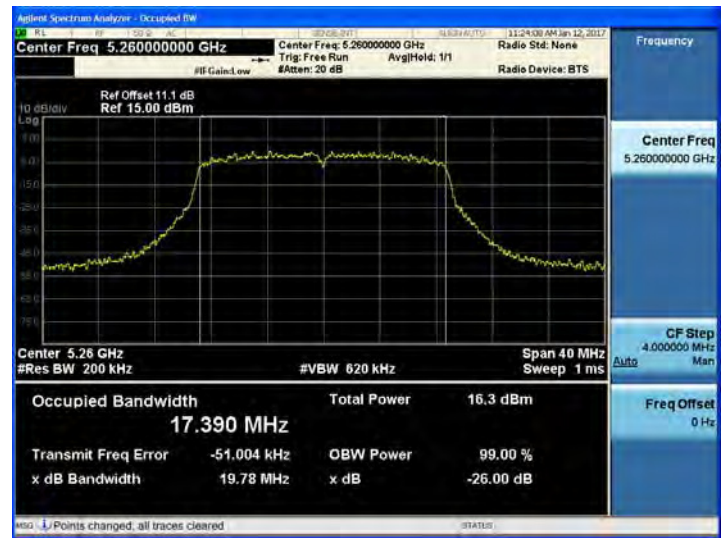
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	19.61	N/A	Pass
5785	157	19.61	N/A	Pass
5825	165	19.62	N/A	Pass

■ TEST Plot for Ant.1_ 802.11ac_VHT20

802.11ac_VHT20 UNII 1 BAND 26dB Bandwidth(CH 40)



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



802.11ac_VHT20 UNII 2C BAND 26dB Bandwidth(CH 116)



802.11ac_VHT20 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 Ant.0_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	40.04	N/A	Pass
5230	46	39.86	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	39.90	N/A	Pass
5310	62	39.83	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

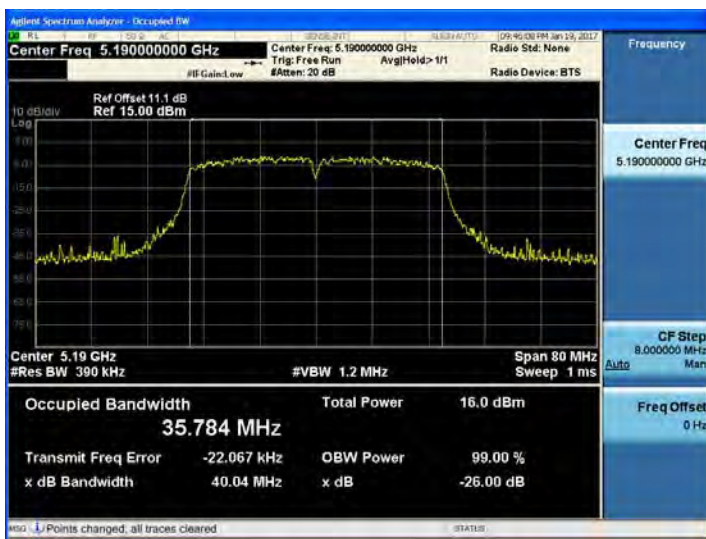
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.20	N/A	Pass
5550	110	39.80	N/A	Pass
5670	134	39.85	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

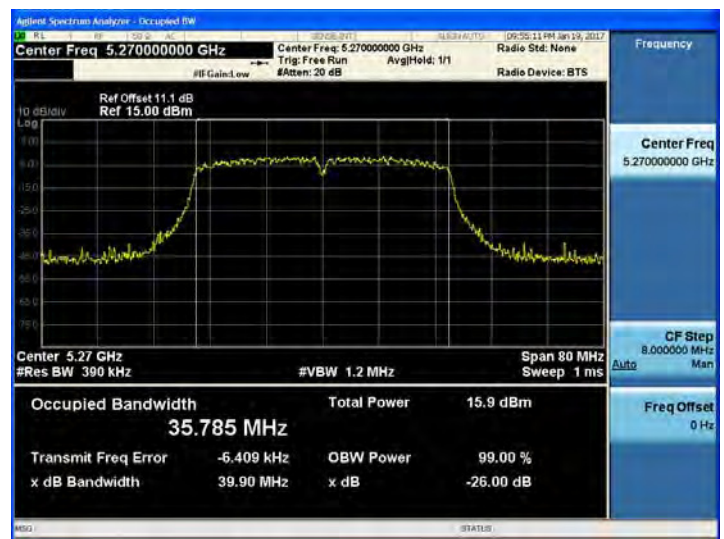
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.78	N/A	Pass
5795	159	40.28	N/A	Pass

■ TEST Plot for Ant.0_802.11n_HT40

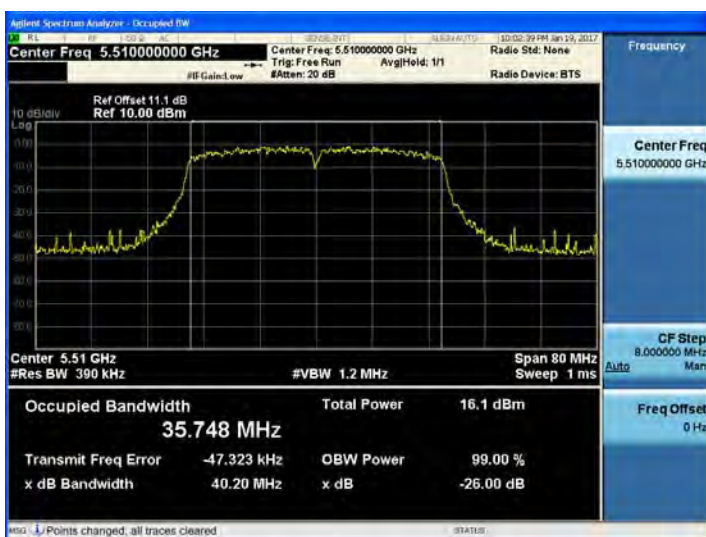
802.11n_HT40 UNII 1 BAND 26dB Bandwidth(CH 38)



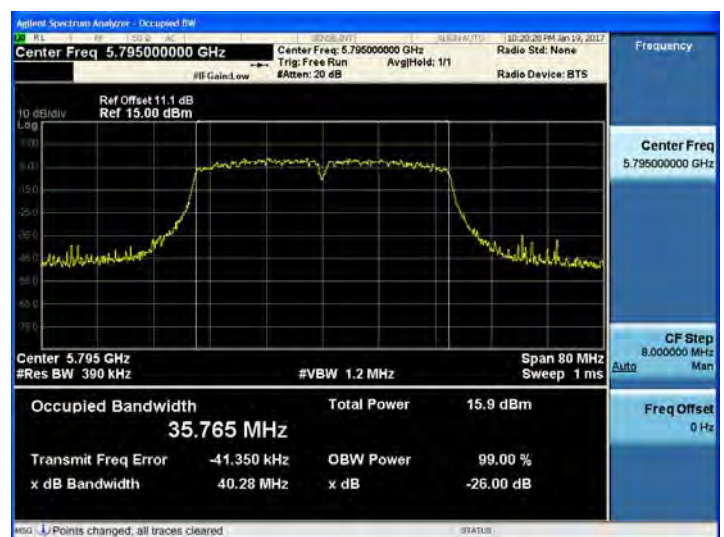
802.11n_HT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11n_HT40 UNII 2C BAND 26dB Bandwidth(CH 102)



802.11n_HT40 UNII 3 BAND 26dB Bandwidth (CH 159)



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

■ TEST RESULTS for Ant.1_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	39.95	N/A	Pass
5230	46	40.06	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	40.25	N/A	Pass
5310	62	40.04	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

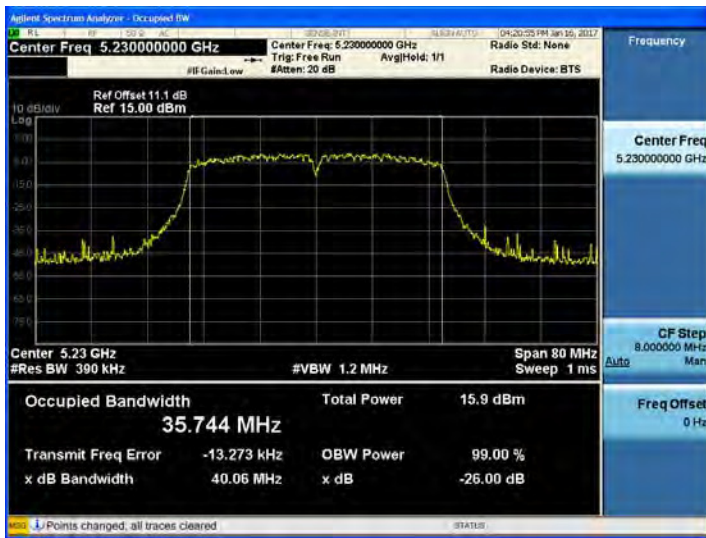
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.31	N/A	Pass
5550	110	40.04	N/A	Pass
5670	134	39.82	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11n_HT40

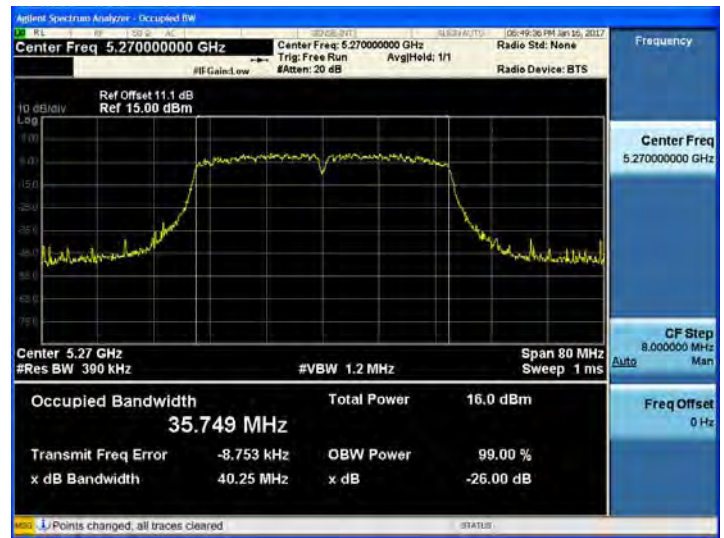
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.69	N/A	Pass
5795	159	39.54	N/A	Pass

■ TEST Plot for Ant.1_802.11n_HT40

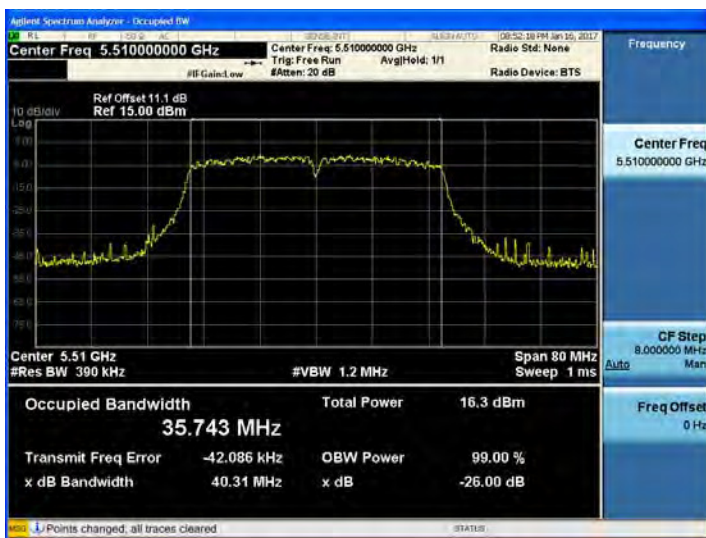
802.11n_HT40 UNII 1 BAND 26dB Bandwidth(CH 46)



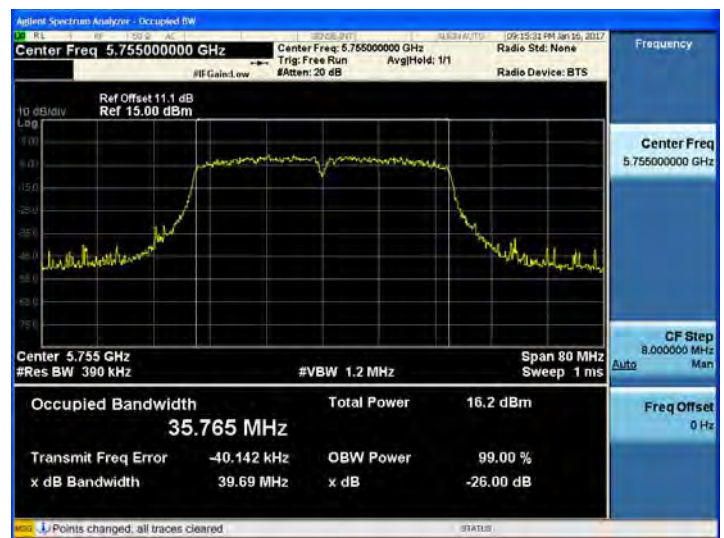
802.11n_HT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11n_HT40 UNII 2C BAND 26dB Bandwidth(CH 102)



802.11n_HT40 UNII 3 BAND 26dB Bandwidth (CH 151)



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

■ TEST RESULTS for Ant.0_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	39.70	N/A	Pass
5230	46	39.77	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	39.90	N/A	Pass
5310	62	39.80	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

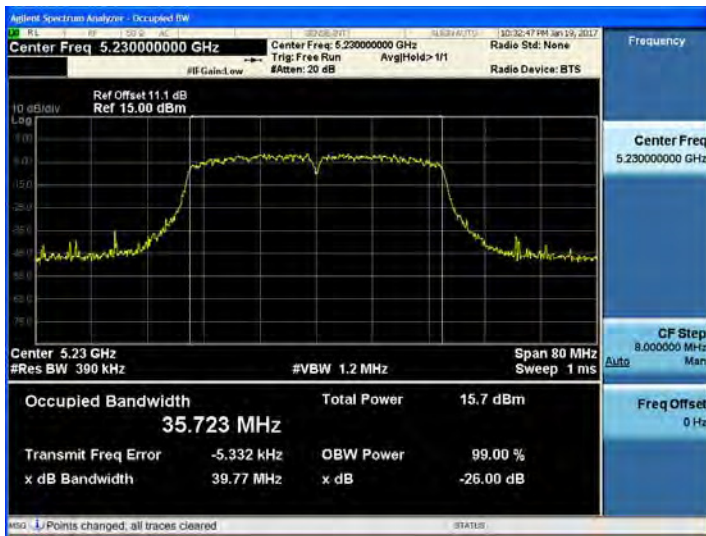
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5510	102	40.12	N/A	Pass
5550	110	39.49	N/A	Pass
5670	134	39.66	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

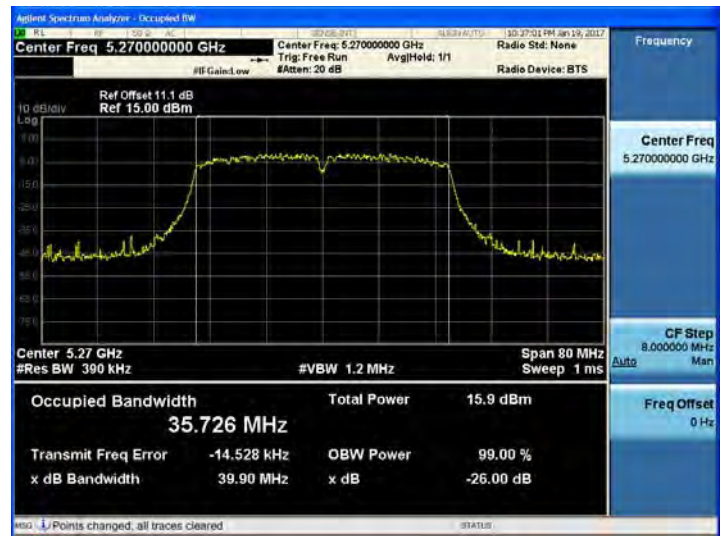
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.87	N/A	Pass
5795	159	39.86	N/A	Pass

■ TEST Plot for Ant.0_802.11ac_VHT40

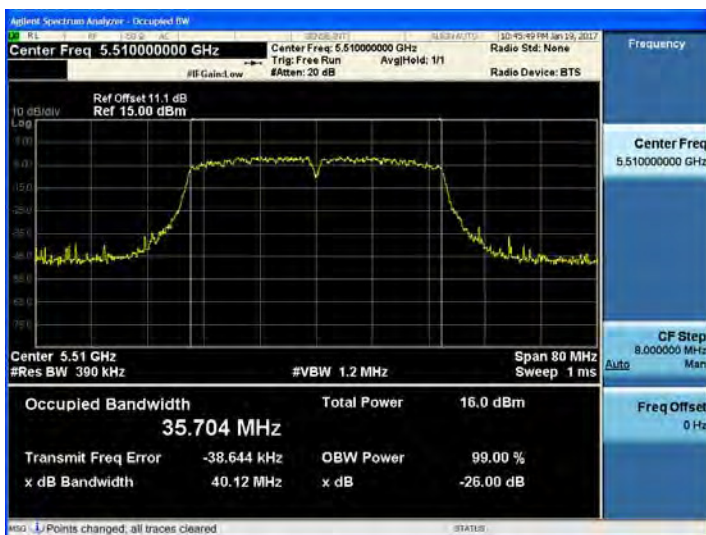
802.11ac_VHT40 UNII 1 BAND 26dB Bandwidth(CH 46)



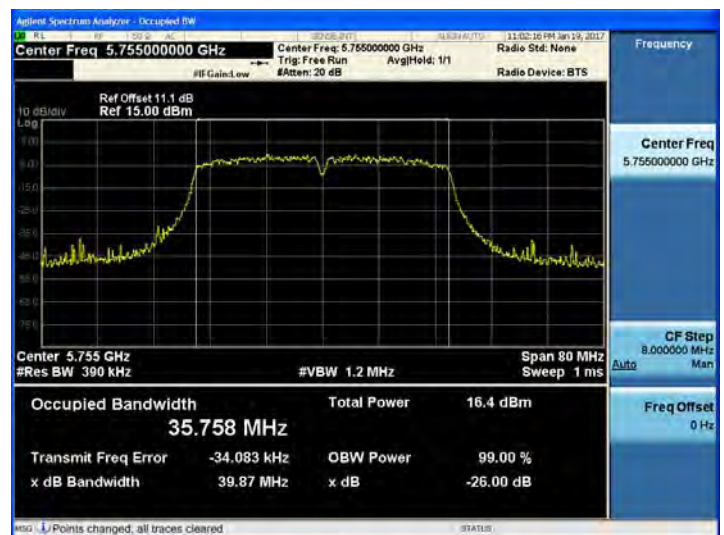
802.11ac_VHT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11ac_VHT40 UNII 2C BAND 26dB Bandwidth(CH 102)



802.11ac_VHT40 UNII 3 BAND 26dB Bandwidth (CH 151)



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

TEST RESULTS for Ant.1_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	39.98	N/A	Pass
5230	46	40.19	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	40.18	N/A	Pass
5310	62	40.05	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	40.13	N/A	Pass
5550	110	39.94	N/A	Pass
5670	134	39.84	N/A	Pass

Conducted 26 dB Bandwidth Measurements for 802.11ac_VHT40

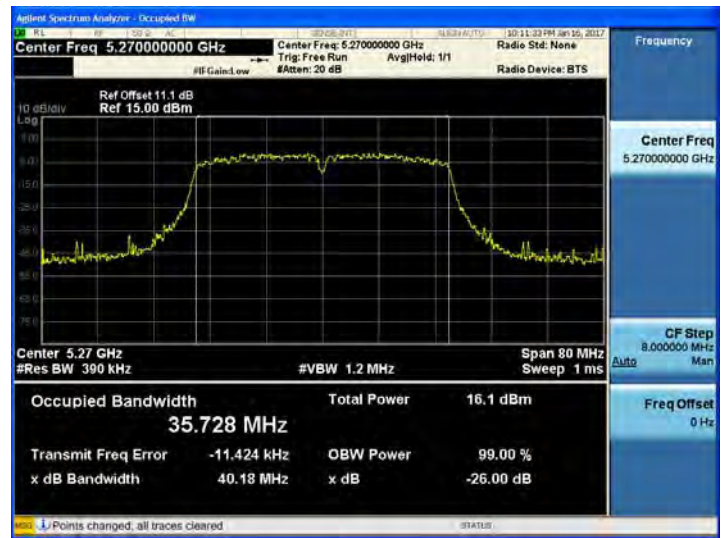
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	39.84	N/A	Pass
5795	159	40.12	N/A	Pass

■ TEST Plot for Ant.1_802.11ac_VHT40

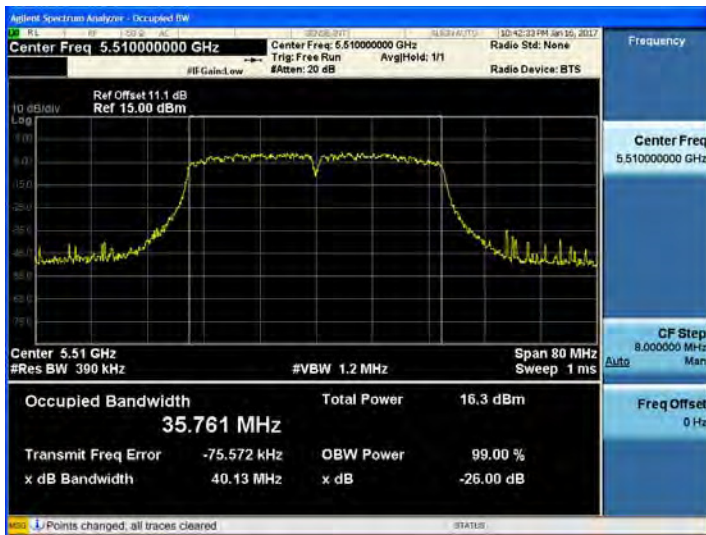
802.11ac_VHT40 UNII 1 BAND 26dB Bandwidth(CH 46)



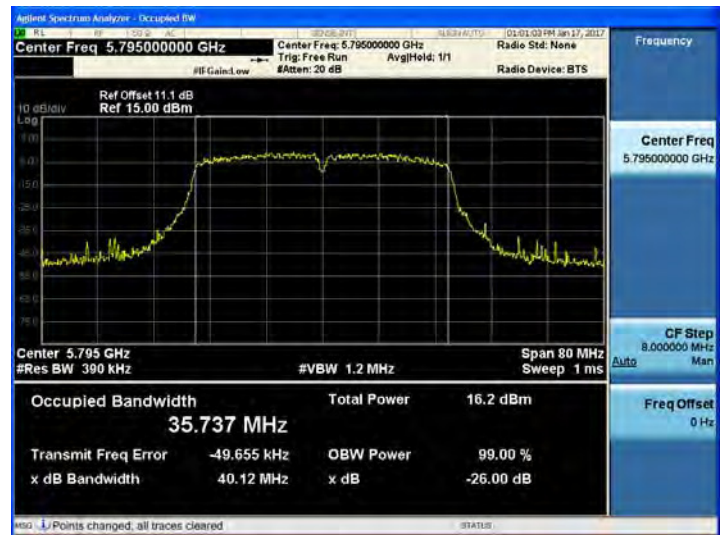
802.11ac_VHT40 UNII 2A BAND 26dB Bandwidth (CH 54)



802.11ac_VHT40 UNII 2C BAND 26dB Bandwidth(CH 102)



802.11ac_VHT40 UNII 3 BAND 26dB Bandwidth (CH 159)



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

TEST RESULTS for Ant.0_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	82.33	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	81.88	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	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.			
5775	155	81.84	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 Ant.0_802.11ac_VHT80

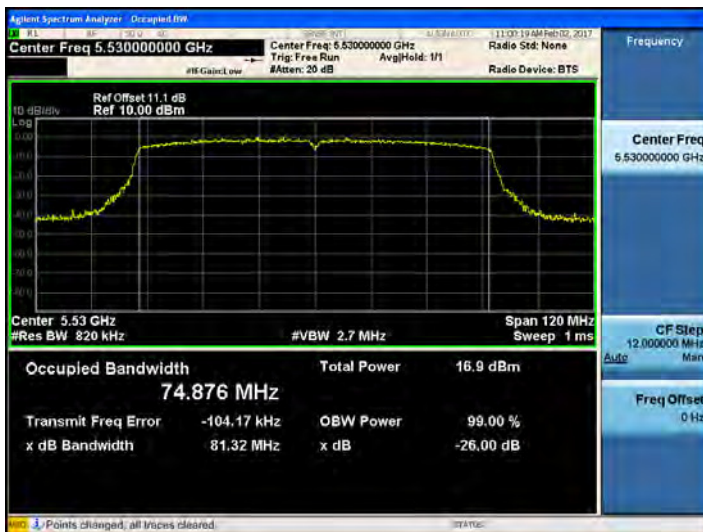
802.11ac_VHT80 UNII 1 BAND 26dB Bandwidth(CH 42)



802.11ac_VHT80 UNII 2A BAND 26dB Bandwidth(CH 58)



802.11ac_VHT80 UNII 2C BAND 26dB Bandwidth(CH 106)



802.11ac_VHT80 UNII 3 BAND 26dB Bandwidth(CH 155)



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

■ TEST RESULTS for Ant.1_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	81.65	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	81.59	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	81.94	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	82.54	N/A	Pass

Note :

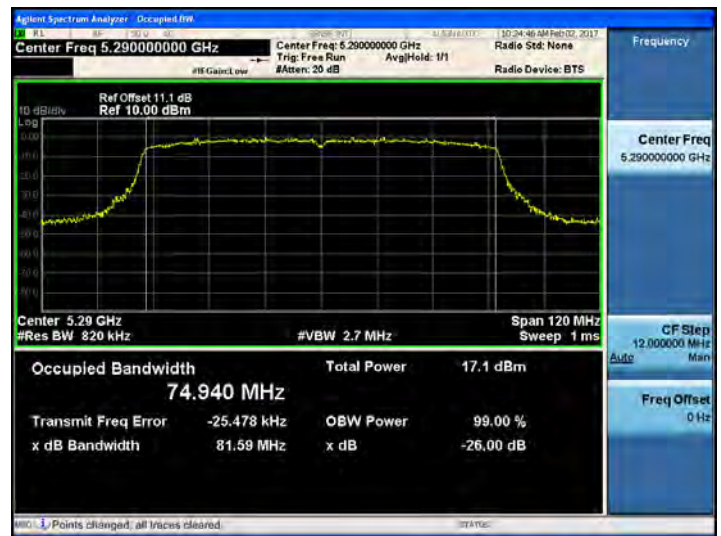
1. In order to simplify the report, attached plots were only the most wide channel.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.

■ TEST Plot for Ant.1_802.11ac_VHT80

802.11ac_VHT80 UNII 1 BAND 26dB Bandwidth(CH 42)



802.11ac_VHT80 UNII 2A BAND 26dB Bandwidth(CH 58)



802.11ac_VHT80 UNII 2C BAND 26dB Bandwidth(CH 106)



802.11ac_VHT80 UNII 3 BAND 26dB Bandwidth(CH 155)



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

Conducted 6 dB Bandwidth

■ TEST RESULTS for Ant.0_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	15.36	0.5	Pass
5785	157	15.49	0.5	Pass
5825	165	15.20	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_HT20

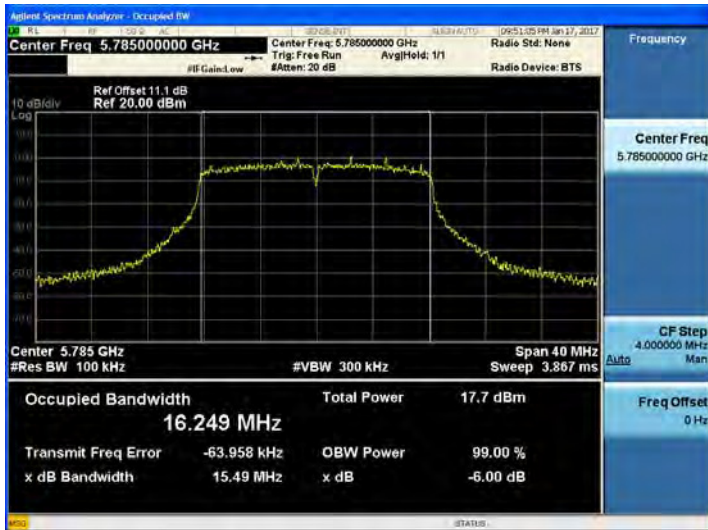
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.46	0.5	Pass
5785	157	15.14	0.5	Pass
5825	165	15.43	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT20

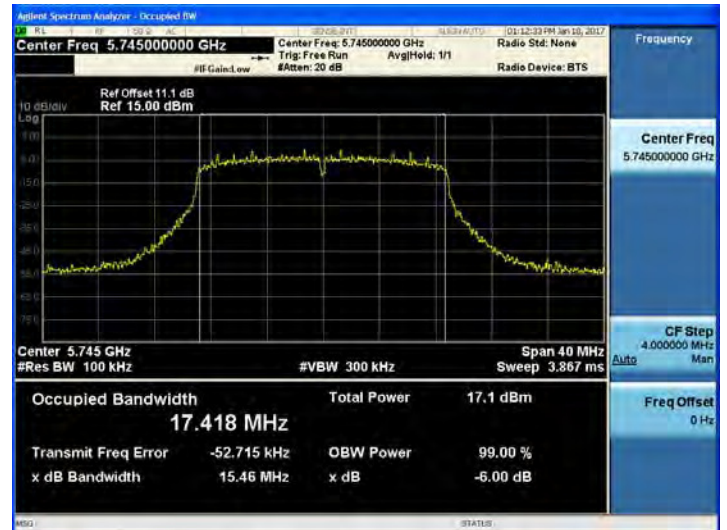
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.48	0.5	Pass
5785	157	15.14	0.5	Pass
5825	165	15.15	0.5	Pass

TEST PlotS for 802.11a/n_HT20/ac_VHT20

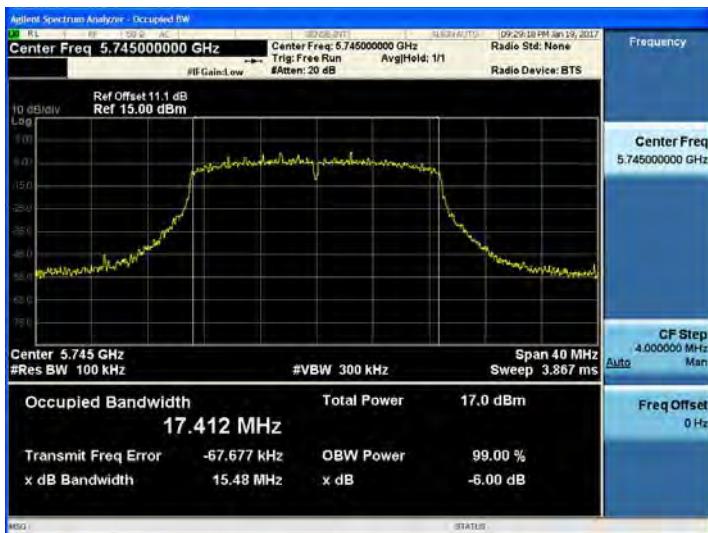
802.11a UNII 3 BAND 6dB Bandwidth (CH.157)



802.11n_HT20 UNII 3 BAND 6dB Bandwidth(CH.149)



802.11ac_VHT20 UNII 3 BAND 6dB Bandwidth(CH.149)



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

TEST RESULTS for Ant.1_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	15.59	0.5	Pass
5785	157	15.37	0.5	Pass
5825	165	14.50	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11n_HT20

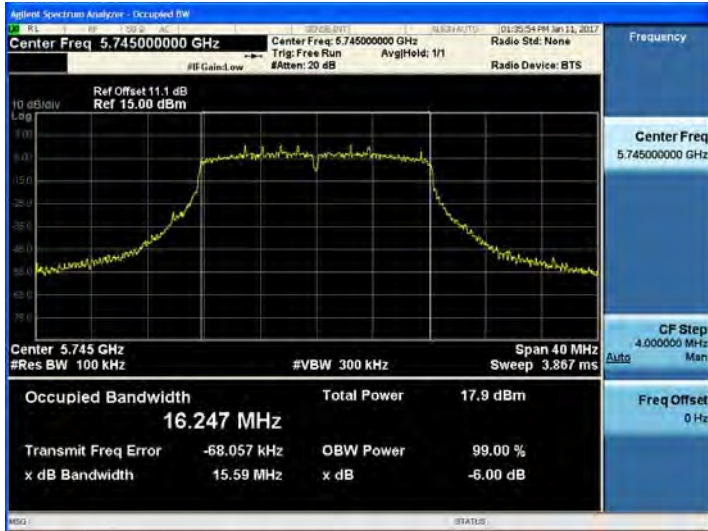
802.11n_HT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.19	0.5	Pass
5785	157	15.10	0.5	Pass
5825	165	15.08	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT20

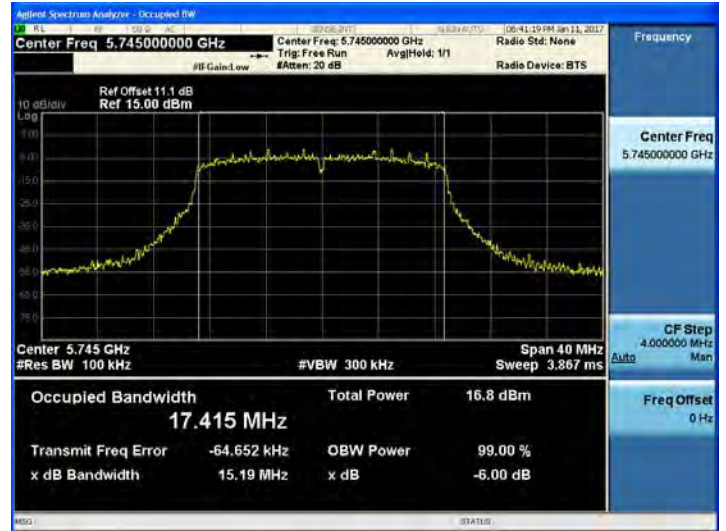
802.11ac_VHT20 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5745	149	15.13	0.5	Pass
5785	157	15.44	0.5	Pass
5825	165	15.13	0.5	Pass

■ TEST PlotS for Ant.1_802.11a/n_HT20/ac_VHT20

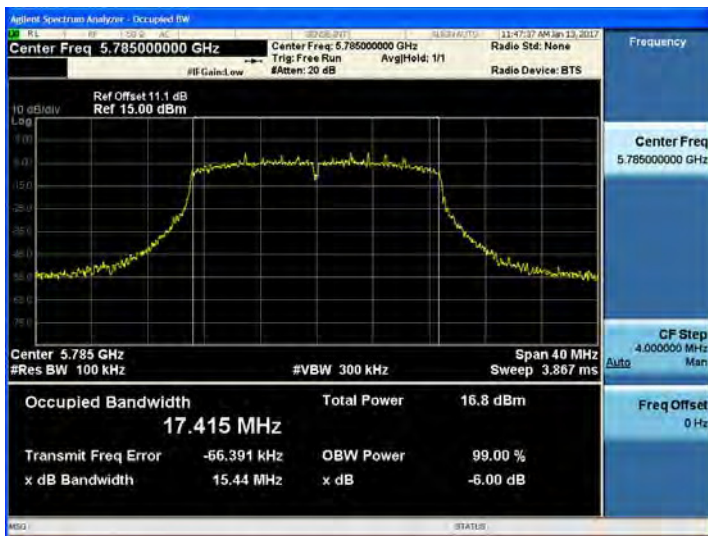
802.11a UNII 3 BAND 6dB Bandwidth (CH.149)



802.11n_HT20 UNII 3 BAND 6dB Bandwidth(CH.149)



802.11ac_VHT20 UNII 3 BAND 6dB Bandwidth(CH.157)



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

TEST RESULTS for Ant.0_802.11n_HT40/ac_VHT40

Conducted 6 dB Bandwidth Measurements for 802.11n_HT40

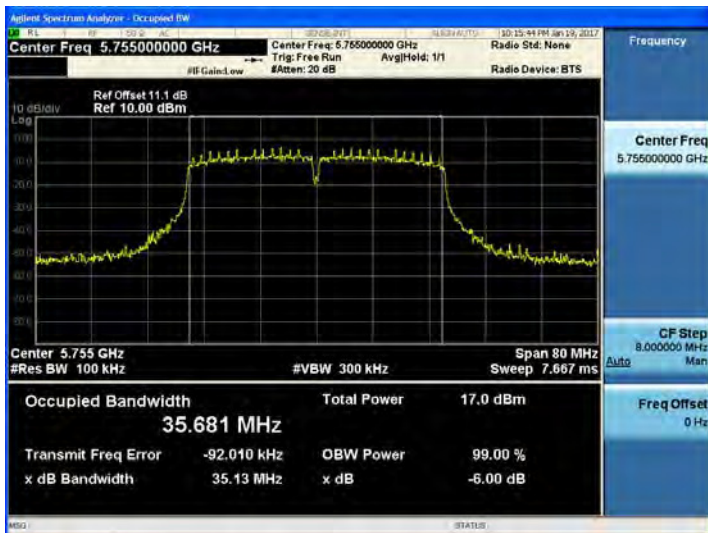
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.13	0.5	Pass
5795	159	33.95	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT40

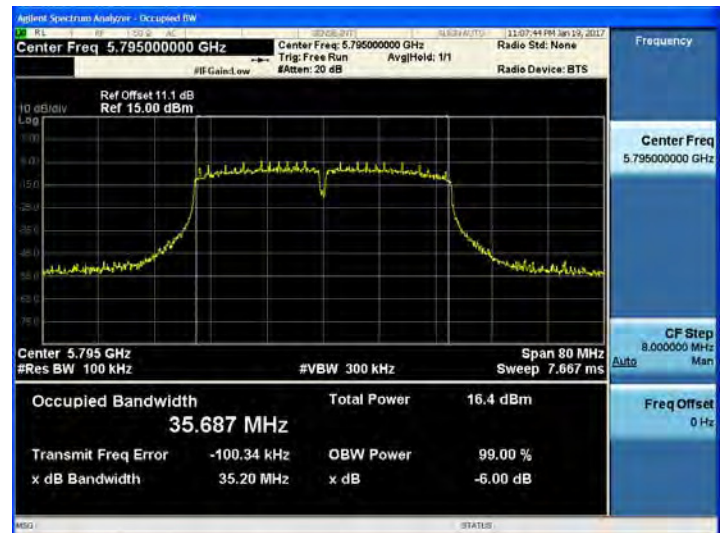
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	34.23	0.5	Pass
5795	159	35.20	0.5	Pass

TEST Plots for Ant.0_802.11n_HT40/ac_VHT40

802.11n_40 MHz UNII 3 BAND 6dB Bandwidth (CH.151)



802.11ac_VHT40 UNII 3 BAND 6dB Bandwidth(CH.159)



TEST RESULTS for Ant.1_802.11n_HT40/ac_VHT40

Conducted 6 dB Bandwidth Measurements for 802.11n_HT40

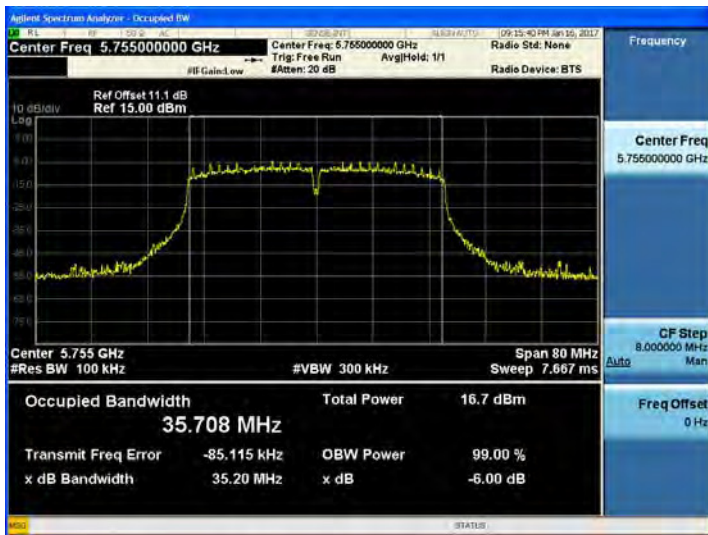
802.11n_HT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	35.20	0.5	Pass
5795	159	35.18	0.5	Pass

Conducted 6 dB Bandwidth Measurements for 802.11ac_VHT40

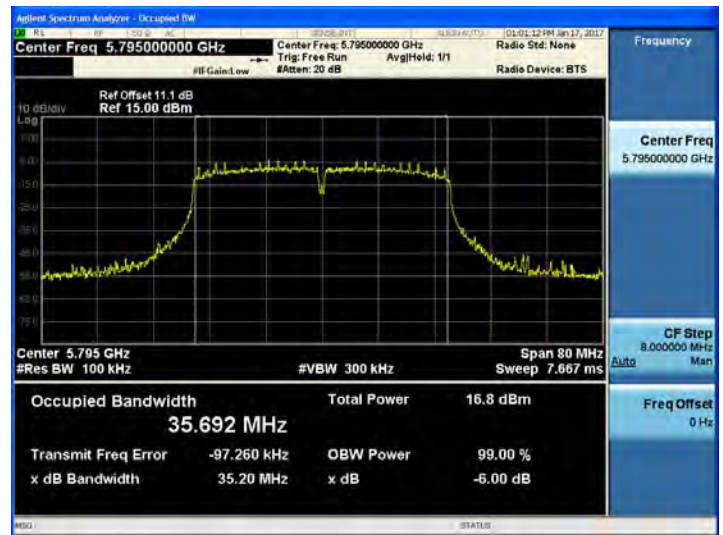
802.11ac_VHT40 Mode		Measured Bandwidth [MHz]	Minimum Bandwidth [MHz]	Pass / Fail
Frequency [MHz]	Channel No.			
5755	151	34.28	0.5	Pass
5795	159	35.20	0.5	Pass

TEST Plots for Ant.1_802.11n_HT40/ac_VHT40

802.11n_40 MHz UNII 3 BAND 6dB Bandwidth (CH.151)



802.11ac_VHT40 UNII 3 BAND 6dB Bandwidth(CH.159)

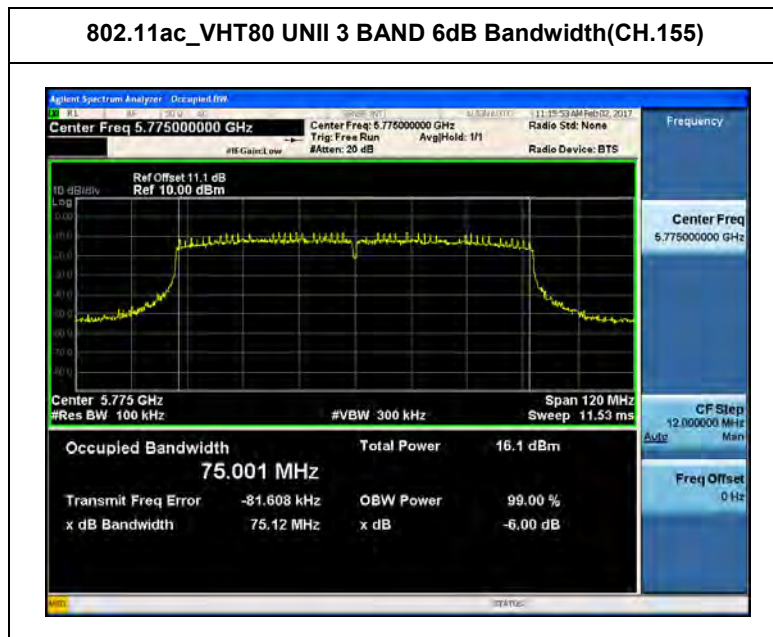


TEST RESULTS Ant.0_for 802.11ac_VHT80

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	75.12	0.5	Pass

TEST Plots for Ant.0_802.11ac_VHT80



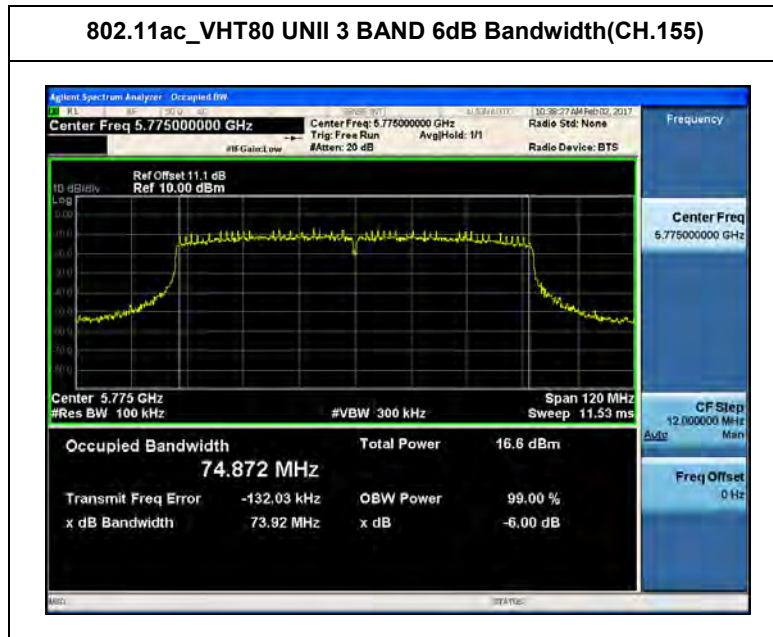
Note : In order to simplify the report, attached plots were only the most wide channel.

TEST RESULTS Ant.1_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	73.92	0.5	Pass

TEST Plots for Ant.1_802.11ac_VHT80



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

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	802.11a,n,ac	23.98
UNII 2A	802.11a,n,ac	23.98
UNII 2C	802.11a,n,ac	23.98
UNII 3	802.11a,n,ac	30.00

Maximum Conducted Output Power:

Operating Mode	Band	Mode	Operating Ant.	Ant. Gain (dBi)	Limit (dBm)
SISO	UNII 1	802.11a/n/ac	Ant 0	-0.51	23.98
			Ant 1	-2.61	23.98
	UNII 2A		Ant 0	-0.81	23.98
			Ant 1	-2.85	23.98
	UNII 2C		Ant 0	-2.49	23.98
			Ant 1	-2.53	23.98
	UNII 3		Ant 0	-1.93	30.00
			Ant 1	-2.26	30.00
MIMO(CDD)	UNII 1	802.11a/n/ac	Ant 0 & 1	1.51	23.98
	UNII 2A			1.24	23.98
	UNII 2C			0.50	23.98
	UNII 3			0.92	30.00

Note : 1. If all antenna gains are not equal,

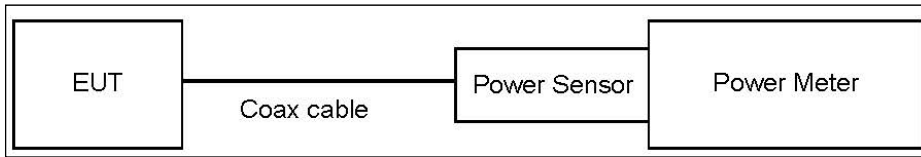
$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi (CDD, 802.11a/n/ac)}$$

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N] \text{ dBi (SDM, 802.11n/ac)}$$

(according to KDB662911 D01 v02r01)

2. Limit is calculated by antenna gain.

3. The limits of maximum conducted power were applied the antenna gain. Therefore, if conducted power is pass, e.i.r.p. is also pass. So, we attached only conducted power table.

■ 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.

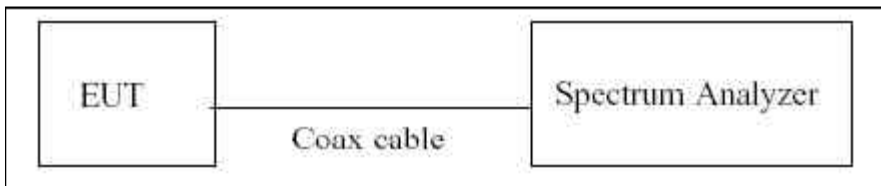
Note :

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)

■ 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 $\geq$ 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
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

■ Sample Calculation (EIRP)

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

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)

Ant.0

802.11a (UNII 1)

TEST RESULTS

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

802.11a(20MHz) 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	11.37	0.24	11.61	23.98
		9	11.24	0.34	11.58	23.98
		12	11.11	0.46	11.57	23.98
		18	11.12	0.66	11.78	23.98
		24	11.00	0.82	11.82	23.98
		36	10.58	1.16	11.74	23.98
		48	10.33	1.49	11.82	23.98
		54	10.16	1.62	11.78	23.98
5200	40	6	10.90	0.24	11.14	23.98
		9	10.77	0.34	11.11	23.98
		12	10.66	0.46	11.12	23.98
		18	10.65	0.66	11.31	23.98
		24	10.53	0.82	11.35	23.98
		36	10.13	1.16	11.29	23.98
		48	9.82	1.49	11.31	23.98
		54	9.69	1.62	11.31	23.98
5240	48	6	11.14	0.24	11.38	23.98
		9	10.99	0.34	11.33	23.98
		12	10.97	0.46	11.43	23.98
		18	10.86	0.66	11.52	23.98
		24	10.76	0.82	11.58	23.98
		36	10.38	1.16	11.54	23.98
		48	10.11	1.49	11.60	23.98
		54	9.95	1.62	11.57	23.98

Ant.1
802.11a (UNII 1)
■ TEST RESULTS
Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) 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	11.13	0.24	11.37	23.98
		9	11.03	0.34	11.37	23.98
		12	10.93	0.46	11.39	23.98
		18	10.89	0.66	11.55	23.98
		24	10.75	0.82	11.57	23.98
		36	10.43	1.16	11.59	23.98
		48	10.07	1.49	11.56	23.98
		54	9.89	1.62	11.51	23.98
5200	40	6	11.07	0.24	11.31	23.98
		9	10.97	0.34	11.31	23.98
		12	10.89	0.46	11.35	23.98
		18	10.85	0.66	11.51	23.98
		24	10.72	0.82	11.54	23.98
		36	10.30	1.16	11.46	23.98
		48	10.12	1.49	11.61	23.98
		54	9.91	1.62	11.53	23.98
5240	48	6	11.33	0.24	11.57	23.98
		9	11.08	0.34	11.42	23.98
		12	11.13	0.46	11.59	23.98
		18	11.04	0.66	11.70	23.98
		24	10.94	0.82	11.76	23.98
		36	10.50	1.16	11.66	23.98
		48	10.25	1.49	11.74	23.98
		54	10.07	1.62	11.69	23.98

■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 1)

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

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	6	14.50	23.98
		9	14.49	23.98
		12	14.49	23.98
		18	14.68	23.98
		24	14.71	23.98
		36	14.68	23.98
		48	14.70	23.98
		54	14.66	23.98
5200	40	6	14.24	23.98
		9	14.22	23.98
		12	14.25	23.98
		18	14.42	23.98
		24	14.46	23.98
		36	14.39	23.98
		48	14.47	23.98
		54	14.43	23.98
5240	48	6	14.49	23.98
		9	14.39	23.98
		12	14.52	23.98
		18	14.62	23.98
		24	14.68	23.98
		36	14.61	23.98
		48	14.68	23.98
		54	14.64	23.98

Ant.0

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	11.03	0.24	11.27	23.98
		9	10.96	0.34	11.30	23.98
		12	10.85	0.46	11.31	23.98
		18	10.87	0.66	11.53	23.98
		24	10.73	0.82	11.55	23.98
		36	10.31	1.16	11.47	23.98
		48	10.05	1.49	11.54	23.98
		54	9.98	1.62	11.60	23.98
5300	60	6	11.35	0.24	11.59	23.98
		9	11.18	0.34	11.52	23.98
		12	11.13	0.46	11.59	23.98
		18	11.15	0.66	11.81	23.98
		24	10.95	0.82	11.77	23.98
		36	10.59	1.16	11.75	23.98
		48	10.32	1.49	11.81	23.98
		54	10.13	1.62	11.75	23.98
5320	64	6	11.11	0.24	11.35	23.98
		9	10.99	0.34	11.33	23.98
		12	10.93	0.46	11.39	23.98
		18	10.87	0.66	11.53	23.98
		24	10.76	0.82	11.58	23.98
		36	10.40	1.16	11.56	23.98
		48	10.06	1.49	11.55	23.98
		54	9.94	1.62	11.56	23.98

Ant.1
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	11.31	0.24	11.55	23.98
		9	11.39	0.34	11.73	23.98
		12	11.06	0.46	11.52	23.98
		18	11.08	0.66	11.74	23.98
		24	10.98	0.82	11.80	23.98
		36	10.59	1.16	11.75	23.98
		48	10.27	1.49	11.76	23.98
		54	10.09	1.62	11.71	23.98
5300	60	6	11.21	0.24	11.45	23.98
		9	11.17	0.34	11.51	23.98
		12	11.04	0.46	11.50	23.98
		18	11.08	0.66	11.74	23.98
		24	10.90	0.82	11.72	23.98
		36	10.52	1.16	11.68	23.98
		48	10.28	1.49	11.77	23.98
		54	10.08	1.62	11.70	23.98
5320	64	6	11.26	0.24	11.50	23.98
		9	11.11	0.34	11.45	23.98
		12	11.05	0.46	11.51	23.98
		18	10.97	0.66	11.63	23.98
		24	10.81	0.82	11.63	23.98
		36	10.47	1.16	11.63	23.98
		48	10.30	1.49	11.79	23.98
		54	10.07	1.62	11.69	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2A)

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

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	6	14.42	23.98
		9	14.53	23.98
		12	14.43	23.98
		18	14.65	23.98
		24	14.69	23.98
		36	14.62	23.98
		48	14.66	23.98
		54	14.67	23.98
5300	60	6	14.53	23.98
		9	14.53	23.98
		12	14.56	23.98
		18	14.79	23.98
		24	14.76	23.98
		36	14.73	23.98
		48	14.80	23.98
		54	14.74	23.98
5320	64	6	14.44	23.98
		9	14.40	23.98
		12	14.46	23.98
		18	14.59	23.98
		24	14.62	23.98
		36	14.61	23.98
		48	14.68	23.98
		54	14.64	23.98

Ant.0

802.11a (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5500~5700)

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	11.26	0.24	11.50	23.98
		9	11.18	0.34	11.52	23.98
		12	11.14	0.46	11.60	23.98
		18	11.08	0.66	11.74	23.98
		24	10.98	0.82	11.80	23.98
		36	10.57	1.16	11.73	23.98
		48	10.32	1.49	11.81	23.98
		54	10.18	1.62	11.80	23.98
5580	116	6	11.23	0.24	11.47	23.98
		9	11.17	0.34	11.51	23.98
		12	11.14	0.46	11.60	23.98
		18	11.04	0.66	11.70	23.98
		24	10.97	0.82	11.79	23.98
		36	10.60	1.16	11.76	23.98
		48	10.31	1.49	11.80	23.98
		54	10.14	1.62	11.76	23.98
5700	140	6	11.17	0.24	11.41	23.98
		9	11.10	0.34	11.44	23.98
		12	11.02	0.46	11.48	23.98
		18	11.02	0.66	11.68	23.98
		24	10.88	0.82	11.70	23.98
		36	10.47	1.16	11.63	23.98
		48	10.25	1.49	11.74	23.98
		54	9.98	1.62	11.60	23.98

Ant.1
802.11a (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11a Mode: 5500~5700)

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	11.23	0.24	11.47	23.98
		9	11.17	0.34	11.50	23.98
		12	11.03	0.46	11.49	23.98
		18	11.10	0.66	11.76	23.98
		24	10.98	0.82	11.80	23.98
		36	10.57	1.16	11.72	23.98
		48	10.24	1.49	11.74	23.98
		54	10.07	1.62	11.69	23.98
5580	116	6	11.57	0.24	11.81	23.98
		9	11.49	0.34	11.82	23.98
		12	11.42	0.46	11.87	23.98
		18	11.38	0.66	12.05	23.98
		24	11.27	0.82	12.09	23.98
		36	10.88	1.16	12.04	23.98
		48	10.65	1.49	12.14	23.98
		54	10.46	1.62	12.08	23.98
5700	140	6	10.96	0.24	11.20	23.98
		9	10.89	0.34	11.22	23.98
		12	10.80	0.46	11.25	23.98
		18	10.75	0.66	11.41	23.98
		24	10.64	0.82	11.46	23.98
		36	10.28	1.16	11.43	23.98
		48	10.03	1.49	11.53	23.98
		54	9.88	1.62	11.50	23.98

■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11a Mode: 5500~5700)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	6	14.50	23.98
		9	14.52	23.98
		12	14.56	23.98
		18	14.76	23.98
		24	14.81	23.98
		36	14.74	23.98
		48	14.79	23.98
		54	14.76	23.98
5580	116	6	14.65	23.98
		9	14.68	23.98
		12	14.75	23.98
		18	14.89	23.98
		24	14.95	23.98
		36	14.91	23.98
		48	14.98	23.98
		54	14.93	23.98
5700	140	6	14.32	23.98
		9	14.34	23.98
		12	14.38	23.98
		18	14.56	23.98
		24	14.59	23.98
		36	14.54	23.98
		48	14.65	23.98
		54	14.56	23.98

Ant.0

802.11a (UNII 3)

TEST RESULTS

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

802.11a (20MHz) 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	11.39	0.24	11.63	30
		9	11.28	0.34	11.62	30
		12	11.22	0.46	11.68	30
		18	11.17	0.66	11.83	30
		24	11.06	0.82	11.88	30
		36	10.67	1.16	11.82	30
		48	10.39	1.49	11.89	30
		54	10.21	1.62	11.83	30
5785	157	6	10.93	0.24	11.17	30
		9	10.78	0.34	11.12	30
		12	10.75	0.46	11.21	30
		18	10.76	0.66	11.42	30
		24	10.59	0.82	11.41	30
		36	10.21	1.16	11.36	30
		48	9.94	1.49	11.43	30
		54	9.76	1.62	11.38	30
5825	165	6	11.23	0.24	11.47	30
		9	11.08	0.34	11.41	30
		12	11.02	0.46	11.47	30
		18	11.04	0.66	11.70	30
		24	10.82	0.82	11.64	30
		36	10.46	1.16	11.62	30
		48	10.21	1.49	11.70	30
		54	10.03	1.62	11.65	30

Ant.1
802.11a (UNII 3)
■ TEST RESULTS
Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a (20MHz) 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	11.11	0.24	11.35	30
		9	11.15	0.34	11.49	30
		12	11.08	0.46	11.54	30
		18	11.09	0.66	11.75	30
		24	10.86	0.82	11.68	30
		36	10.52	1.16	11.67	30
		48	10.29	1.49	11.78	30
		54	10.07	1.62	11.69	30
5785	157	6	11.28	0.24	11.52	30
		9	11.12	0.34	11.45	30
		12	11.07	0.46	11.53	30
		18	11.04	0.66	11.70	30
		24	10.96	0.82	11.78	30
		36	10.51	1.16	11.66	30
		48	10.21	1.49	11.70	30
		54	10.13	1.62	11.75	30
5825	165	6	11.48	0.24	11.72	30
		9	11.34	0.34	11.67	30
		12	11.31	0.46	11.77	30
		18	11.28	0.66	11.94	30
		24	11.24	0.82	12.07	30
		36	10.84	1.16	12.00	30
		48	10.62	1.49	12.11	30
		54	10.42	1.62	12.04	30

■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 3)
Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	6	14.50	30
		9	14.57	30
		12	14.62	30
		18	14.80	30
		24	14.79	30
		36	14.76	30
		48	14.85	30
		54	14.77	30
5785	157	6	14.36	30
		9	14.30	30
		12	14.38	30
		18	14.57	30
		24	14.61	30
		36	14.52	30
		48	14.58	30
		54	14.58	30
5825	165	6	14.61	30
		9	14.55	30
		12	14.63	30
		18	14.83	30
		24	14.87	30
		36	14.82	30
		48	14.92	30
		54	14.86	30

Ant.0

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	10.09	0.25	10.34	23.98
		1	9.80	0.46	10.26	23.98
		2	9.84	0.67	10.51	23.98
		3	9.92	0.89	10.81	23.98
		4	9.64	1.26	10.90	23.98
		5	9.30	1.48	10.78	23.98
		6	9.26	1.61	10.87	23.98
		7	9.09	1.85	10.94	23.98
5200	40	0	9.70	0.25	9.95	23.98
		1	9.42	0.46	9.88	23.98
		2	9.40	0.67	10.07	23.98
		3	9.54	0.89	10.43	23.98
		4	9.22	1.26	10.48	23.98
		5	8.92	1.48	10.40	23.98
		6	8.91	1.61	10.52	23.98
		7	8.69	1.85	10.54	23.98
5240	48	0	9.99	0.25	10.24	23.98
		1	9.72	0.46	10.18	23.98
		2	9.71	0.67	10.38	23.98
		3	9.83	0.89	10.72	23.98
		4	9.54	1.26	10.80	23.98
		5	9.27	1.48	10.75	23.98
		6	9.14	1.61	10.75	23.98
		7	8.96	1.85	10.81	23.98

Ant.1
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	9.86	0.25	10.11	23.98
		1	9.53	0.46	9.99	23.98
		2	9.60	0.67	10.27	23.98
		3	9.71	0.89	10.60	23.98
		4	9.44	1.26	10.70	23.98
		5	9.00	1.48	10.48	23.98
		6	8.97	1.61	10.58	23.98
		7	8.86	1.85	10.71	23.98
5200	40	0	9.90	0.25	10.15	23.98
		1	9.63	0.46	10.09	23.98
		2	9.50	0.67	10.17	23.98
		3	9.77	0.89	10.66	23.98
		4	9.42	1.26	10.68	23.98
		5	9.21	1.48	10.69	23.98
		6	9.04	1.61	10.65	23.98
		7	8.89	1.85	10.74	23.98
5240	48	0	10.07	0.25	10.32	23.98
		1	9.73	0.46	10.19	23.98
		2	9.72	0.67	10.39	23.98
		3	9.87	0.89	10.76	23.98
		4	9.56	1.26	10.82	23.98
		5	9.25	1.48	10.73	23.98
		6	9.18	1.61	10.79	23.98
		7	9.06	1.85	10.91	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 1)

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

802.11n_HT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	0	13.24	23.98
		1	13.14	23.98
		2	13.40	23.98
		3	13.72	23.98
		4	13.81	23.98
		5	13.64	23.98
		6	13.74	23.98
		7	13.84	23.98
5200	40	0	13.06	23.98
		1	13.00	23.98
		2	13.13	23.98
		3	13.56	23.98
		4	13.59	23.98
		5	13.56	23.98
		6	13.60	23.98
		7	13.65	23.98
5240	48	0	13.29	23.98
		1	13.20	23.98
		2	13.40	23.98
		3	13.75	23.98
		4	13.82	23.98
		5	13.75	23.98
		6	13.78	23.98
		7	14.39	23.98

Ant.0

802.11n_HT20 (UNII 2A)

TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 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	9.86	0.25	10.11	23.98
		9	9.62	0.46	10.08	23.98
		12	9.70	0.67	10.37	23.98
		18	9.76	0.89	10.65	23.98
		24	9.44	1.26	10.70	23.98
		36	9.14	1.48	10.62	23.98
		48	9.03	1.61	10.64	23.98
		54	8.88	1.85	10.73	23.98
5300	60	6	10.07	0.25	10.32	23.98
		9	9.75	0.46	10.21	23.98
		12	9.78	0.67	10.45	23.98
		18	9.92	0.89	10.81	23.98
		24	9.59	1.26	10.85	23.98
		36	9.23	1.48	10.71	23.98
		48	9.26	1.61	10.87	23.98
		54	9.08	1.85	10.93	23.98
5320	64	6	9.94	0.25	10.19	23.98
		9	9.64	0.46	10.10	23.98
		12	9.73	0.67	10.40	23.98
		18	9.78	0.89	10.67	23.98
		24	9.44	1.26	10.70	23.98
		36	9.09	1.48	10.57	23.98
		48	8.98	1.61	10.59	23.98
		54	8.85	1.85	10.70	23.98

Ant.1
802.11n_HT20 (UNII 2A)
■ TEST RESULTS
Conducted Output Power Measurements (802.11n_HT20 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	9.96	0.25	10.21	23.98
		9	9.63	0.46	10.09	23.98
		12	9.67	0.67	10.34	23.98
		18	9.71	0.89	10.60	23.98
		24	9.77	1.26	11.03	23.98
		36	9.22	1.48	10.70	23.98
		48	9.12	1.61	10.73	23.98
		54	8.90	1.85	10.75	23.98
5300	60	6	9.92	0.25	10.17	23.98
		9	9.59	0.46	10.05	23.98
		12	9.64	0.67	10.31	23.98
		18	9.77	0.89	10.66	23.98
		24	9.39	1.26	10.65	23.98
		36	9.16	1.48	10.64	23.98
		48	9.01	1.61	10.62	23.98
		54	8.84	1.85	10.69	23.98
5320	64	6	9.94	0.25	10.19	23.98
		9	9.69	0.46	10.15	23.98
		12	9.57	0.67	10.24	23.98
		18	9.81	0.89	10.70	23.98
		24	9.47	1.26	10.73	23.98
		36	9.24	1.48	10.72	23.98
		48	9.11	1.61	10.72	23.98
		54	8.92	1.85	10.77	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2A)

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

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	6	13.17	23.98
		9	13.10	23.98
		12	13.37	23.98
		18	13.64	23.98
		24	13.88	23.98
		36	13.67	23.98
		48	13.70	23.98
		54	13.75	23.98
5300	60	6	13.26	23.98
		9	13.14	23.98
		12	13.39	23.98
		18	13.75	23.98
		24	13.76	23.98
		36	13.69	23.98
		48	13.76	23.98
		54	13.82	23.98
5320	64	6	13.20	23.98
		9	13.14	23.98
		12	13.33	23.98
		18	13.70	23.98
		24	13.73	23.98
		36	13.66	23.98
		48	13.67	23.98
		54	13.75	23.98

Ant.0

802.11n_HT20 (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5700)

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	10.03	0.25	10.28	23.98
		9	9.72	0.46	10.18	23.98
		12	9.73	0.67	10.40	23.98
		18	9.90	0.89	10.79	23.98
		24	9.61	1.26	10.87	23.98
		36	9.27	1.48	10.75	23.98
		48	9.21	1.61	10.82	23.98
		54	9.02	1.85	10.87	23.98
5580	116	6	10.14	0.25	10.39	23.98
		9	9.89	0.46	10.35	23.98
		12	9.92	0.67	10.59	23.98
		18	10.04	0.89	10.93	23.98
		24	9.67	1.26	10.93	23.98
		36	9.35	1.48	10.83	23.98
		48	9.30	1.61	10.91	23.98
		54	9.14	1.85	10.99	23.98
5700	140	6	9.96	0.25	10.21	23.98
		9	9.69	0.46	10.15	23.98
		12	9.74	0.67	10.41	23.98
		18	9.82	0.89	10.71	23.98
		24	9.49	1.26	10.75	23.98
		36	9.18	1.48	10.66	23.98
		48	9.10	1.61	10.71	23.98
		54	8.84	1.85	10.69	23.98

Ant.1
802.11n_HT20 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5700)

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	9.96	0.25	10.21	23.98
		9	9.65	0.46	10.11	23.98
		12	9.74	0.67	10.40	23.98
		18	9.94	0.89	10.83	23.98
		24	9.64	1.26	10.90	23.98
		36	9.35	1.48	10.83	23.98
		48	9.31	1.61	10.92	23.98
		54	9.06	1.85	10.91	23.98
5580	116	6	10.35	0.25	10.60	23.98
		9	10.09	0.46	10.56	23.98
		12	10.05	0.67	10.71	23.98
		18	10.23	0.89	11.12	23.98
		24	9.91	1.26	11.17	23.98
		36	9.68	1.48	11.16	23.98
		48	9.59	1.61	11.19	23.98
		54	9.41	1.85	11.26	23.98
5700	140	6	9.68	0.25	9.93	23.98
		9	9.43	0.46	9.89	23.98
		12	9.56	0.67	10.23	23.98
		18	9.68	0.89	10.57	23.98
		24	9.31	1.26	10.57	23.98
		36	9.00	1.48	10.48	23.98
		48	8.96	1.61	10.56	23.98
		54	8.79	1.85	10.64	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11n_HT20 Mode: 5500~5700)

802.11a Mode		Rate (Mbps)	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	6	13.26	23.98
		9	13.16	23.98
		12	13.41	23.98
		18	13.82	23.98
		24	13.90	23.98
		36	13.80	23.98
		48	13.88	23.98
		54	13.90	23.98
5580	116	6	13.51	23.98
		9	13.47	23.98
		12	13.66	23.98
		18	14.04	23.98
		24	14.06	23.98
		36	14.01	23.98
		48	14.06	23.98
		54	14.14	23.98
5700	140	6	13.08	23.98
		9	13.03	23.98
		12	13.33	23.98
		18	13.65	23.98
		24	13.67	23.98
		36	13.58	23.98
		48	13.65	23.98
		54	13.68	23.98

Ant.0

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	10.19	0.25	10.44	30
		1	9.43	0.46	9.89	30
		2	9.84	0.67	10.51	30
		3	9.87	0.89	10.76	30
		4	9.59	1.26	10.85	30
		5	9.32	1.48	10.81	30
		6	9.22	1.61	10.83	30
		7	9.09	1.85	10.94	30
5785	157	0	9.58	0.25	9.84	30
		1	9.34	0.46	9.80	30
		2	9.40	0.67	10.07	30
		3	9.45	0.89	10.34	30
		4	9.11	1.26	10.37	30
		5	8.88	1.48	10.36	30
		6	8.75	1.61	10.36	30
		7	8.71	1.85	10.56	30
5825	165	0	9.86	0.25	10.12	30
		1	9.55	0.46	10.01	30
		2	9.63	0.67	10.30	30
		3	9.73	0.89	10.62	30
		4	9.39	1.26	10.66	30
		5	9.13	1.48	10.61	30
		6	8.99	1.61	10.59	30
		7	8.83	1.85	10.67	30

Ant.1
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	9.86	0.25	10.11	30
		1	9.56	0.46	10.02	30
		2	9.53	0.67	10.20	30
		3	9.69	0.89	10.58	30
		4	9.36	1.26	10.62	30
		5	9.13	1.48	10.61	30
		6	9.10	1.61	10.71	30
		7	8.98	1.85	10.83	30
5785	157	0	9.78	0.25	10.03	30
		1	9.53	0.46	9.99	30
		2	9.62	0.67	10.29	30
		3	9.71	0.89	10.60	30
		4	9.36	1.26	10.62	30
		5	9.09	1.48	10.57	30
		6	9.04	1.61	10.65	30
		7	8.85	1.85	10.70	30
5825	165	0	10.13	0.25	10.38	30
		1	9.87	0.46	10.34	30
		2	9.97	0.67	10.64	30
		3	10.00	0.89	10.89	30
		4	9.69	1.26	10.95	30
		5	9.44	1.48	10.92	30
		6	9.30	1.61	10.91	30
		7	9.17	1.85	11.01	30

■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 3)

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

802.11n_HT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	0	13.29	30
		1	12.97	30
		2	13.37	30
		3	13.68	30
		4	13.75	30
		5	13.72	30
		6	13.78	30
		7	13.90	30
5785	157	0	12.95	30
		1	12.91	30
		2	13.19	30
		3	13.48	30
		4	13.51	30
		5	13.48	30
		6	13.52	30
		7	13.64	30
5825	165	0	13.26	30
		1	13.19	30
		2	13.48	30
		3	13.77	30
		4	13.82	30
		5	13.78	30
		6	13.76	30
		7	13.85	30

Ant.0

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	10.08	0.25	10.33	23.98
		1	9.75	0.44	10.19	23.98
		2	9.78	0.63	10.41	23.98
		3	9.89	0.81	10.70	23.98
		4	9.61	1.12	10.73	23.98
		5	9.32	1.39	10.71	23.98
		6	9.29	1.51	10.80	23.98
		7	8.98	1.62	10.60	23.98
		8	8.84	1.90	10.74	23.98
5200	40	0	9.66	0.25	9.91	23.98
		1	9.35	0.44	9.79	23.98
		2	9.41	0.63	10.04	23.98
		3	9.55	0.81	10.36	23.98
		4	9.18	1.12	10.30	23.98
		5	8.88	1.39	10.27	23.98
		6	8.84	1.51	10.35	23.98
		7	8.66	1.62	10.28	23.98
		8	8.46	1.90	10.36	23.98
5240	48	0	9.94	0.25	10.19	23.98
		1	9.68	0.44	10.12	23.98
		2	9.67	0.63	10.30	23.98
		3	9.83	0.81	10.64	23.98
		4	9.48	1.12	10.60	23.98
		5	9.21	1.39	10.60	23.98
		6	9.13	1.51	10.64	23.98
		7	8.97	1.62	10.59	23.98
		8	8.70	1.90	10.60	23.98

Ant.1
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	9.78	0.22	10.00	23.98
		1	9.53	0.43	9.96	23.98
		2	9.45	0.63	10.08	23.98
		3	9.62	0.83	10.45	23.98
		4	9.31	1.13	10.44	23.98
		5	9.02	1.38	10.40	23.98
		6	8.91	1.53	10.44	23.98
		7	8.72	1.62	10.34	23.98
		8	8.42	1.83	10.25	23.98
5200	40	0	9.75	0.22	9.97	23.98
		1	9.45	0.43	9.88	23.98
		2	9.48	0.63	10.11	23.98
		3	9.58	0.83	10.41	23.98
		4	9.30	1.13	10.43	23.98
		5	9.07	1.38	10.45	23.98
		6	8.96	1.53	10.49	23.98
		7	8.72	1.62	10.34	23.98
		8	8.57	1.83	10.40	23.98
5240	48	0	10.06	0.22	10.28	23.98
		1	9.75	0.43	10.18	23.98
		2	9.84	0.63	10.47	23.98
		3	9.93	0.83	10.76	23.98
		4	9.59	1.13	10.72	23.98
		5	9.37	1.38	10.75	23.98
		6	9.26	1.53	10.79	23.98
		7	9.07	1.62	10.69	23.98
		8	8.87	1.83	10.70	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 1)

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

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5180	36	0	13.18	23.98
		1	13.09	23.98
		2	13.26	23.98
		3	13.59	23.98
		4	13.60	23.98
		5	13.57	23.98
		6	13.63	23.98
		7	13.48	23.98
		8	13.51	23.98
5200	40	0	12.95	23.98
		1	12.85	23.98
		2	13.09	23.98
		3	13.40	23.98
		4	13.38	23.98
		5	13.37	23.98
		6	13.97	23.98
		7	13.32	23.98
		8	13.39	23.98
5240	48	0	13.25	23.98
		1	13.16	23.98
		2	13.40	23.98
		3	13.71	23.98
		4	13.67	23.98
		5	13.69	23.98
		6	13.73	23.98
		7	13.65	23.98
		8	14.20	23.98

Ant.0

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	9.87	0.25	10.12	23.98
		1	9.63	0.44	10.07	23.98
		2	9.56	0.63	10.19	23.98
		3	9.70	0.81	10.51	23.98
		4	9.40	1.12	10.52	23.98
		5	9.10	1.39	10.49	23.98
		6	9.03	1.51	10.54	23.98
		7	8.85	1.62	10.47	23.98
		8	8.62	1.90	10.52	23.98
5300	60	0	10.05	0.25	10.30	23.98
		1	9.70	0.44	10.14	23.98
		2	9.72	0.63	10.35	23.98
		3	9.94	0.81	10.75	23.98
		4	9.70	1.12	10.82	23.98
		5	9.32	1.39	10.71	23.98
		6	9.27	1.51	10.78	23.98
		7	9.11	1.62	10.73	23.98
		8	8.81	1.90	10.71	23.98
5320	64	0	10.13	0.25	10.38	23.98
		1	9.73	0.44	10.17	23.98
		2	9.70	0.63	10.33	23.98
		3	9.78	0.81	10.59	23.98
		4	9.48	1.12	10.60	23.98
		5	9.20	1.39	10.59	23.98
		6	9.14	1.51	10.65	23.98
		7	8.94	1.62	10.56	23.98
		8	8.71	1.90	10.61	23.98

Ant.1
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	10.03	0.22	10.25	23.98
		1	9.76	0.43	10.19	23.98
		2	9.74	0.63	10.37	23.98
		3	9.87	0.83	10.70	23.98
		4	9.55	1.13	10.68	23.98
		5	9.34	1.38	10.72	23.98
		6	9.19	1.53	10.72	23.98
		7	8.97	1.62	10.59	23.98
		8	8.89	1.83	10.72	23.98
5300	60	0	9.91	0.22	10.13	23.98
		1	9.61	0.43	10.04	23.98
		2	9.69	0.63	10.32	23.98
		3	9.80	0.83	10.63	23.98
		4	9.48	1.13	10.61	23.98
		5	9.20	1.38	10.58	23.98
		6	9.12	1.53	10.65	23.98
		7	8.94	1.62	10.56	23.98
		8	8.67	1.83	10.50	23.98
5320	64	0	9.76	0.22	9.99	23.98
		1	9.51	0.43	9.94	23.98
		2	9.52	0.63	10.15	23.98
		3	9.69	0.83	10.52	23.98
		4	9.43	1.13	10.56	23.98
		5	9.15	1.38	10.52	23.98
		6	9.08	1.53	10.62	23.98
		7	8.85	1.62	10.47	23.98
		8	8.63	1.83	10.46	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2A)

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

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5260	52	0	13.20	23.98
		1	13.14	23.98
		2	13.29	23.98
		3	13.62	23.98
		4	13.61	23.98
		5	13.62	23.98
		6	13.64	23.98
		7	13.54	23.98
		8	13.63	23.98
5300	60	0	13.23	23.98
		1	13.10	23.98
		2	13.35	23.98
		3	13.70	23.98
		4	13.73	23.98
		5	13.66	23.98
		6	13.73	23.98
		7	13.66	23.98
		8	13.62	23.98
5320	64	0	13.20	23.98
		1	13.07	23.98
		2	13.25	23.98
		3	13.57	23.98
		4	13.59	23.98
		5	13.57	23.98
		6	13.65	23.98
		7	14.06	23.98
		8	13.55	23.98

Ant.0

802.11ac_VHT20 (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5500~5700)

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	9.86	0.25	10.11	23.98
		1	9.57	0.44	10.01	23.98
		2	9.59	0.63	10.22	23.98
		3	9.75	0.81	10.57	23.98
		4	9.42	1.12	10.54	23.98
		5	9.12	1.39	10.51	23.98
		6	8.99	1.51	10.50	23.98
		7	8.92	1.62	10.54	23.98
		8	8.64	1.90	10.55	23.98
5580	116	0	9.91	0.25	10.15	23.98
		1	9.63	0.44	10.07	23.98
		2	9.62	0.63	10.25	23.98
		3	9.75	0.81	10.56	23.98
		4	9.46	1.12	10.58	23.98
		5	9.20	1.39	10.59	23.98
		6	9.10	1.51	10.61	23.98
		7	8.91	1.62	10.53	23.98
		8	8.70	1.90	10.61	23.98
5700	140	0	10.01	0.25	10.26	23.98
		1	9.75	0.44	10.19	23.98
		2	9.78	0.63	10.41	23.98
		3	9.91	0.81	10.72	23.98
		4	9.58	1.12	10.70	23.98
		5	9.32	1.39	10.71	23.98
		6	9.25	1.51	10.76	23.98
		7	8.98	1.62	10.60	23.98
		8	8.77	1.90	10.67	23.98

Ant.1
802.11ac_VHT20 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5500~5700)

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	10.06	0.22	10.28	23.98
		1	9.72	0.43	10.15	23.98
		2	9.80	0.63	10.43	23.98
		3	9.92	0.83	10.75	23.98
		4	9.58	1.13	10.71	23.98
		5	9.26	1.38	10.64	23.98
		6	9.23	1.53	10.76	23.98
		7	9.11	1.62	10.73	23.98
		8	8.82	1.83	10.65	23.98
5580	116	0	10.31	0.22	10.53	23.98
		1	10.06	0.43	10.49	23.98
		2	10.07	0.63	10.70	23.98
		3	10.21	0.83	11.05	23.98
		4	9.86	1.13	10.99	23.98
		5	9.69	1.38	11.07	23.98
		6	9.50	1.53	11.04	23.98
		7	9.32	1.62	10.94	23.98
		8	9.10	1.83	10.94	23.98
5700	140	0	9.73	0.22	9.96	23.98
		1	9.41	0.43	9.84	23.98
		2	9.40	0.63	10.03	23.98
		3	9.59	0.83	10.42	23.98
		4	9.25	1.13	10.38	23.98
		5	9.04	1.38	10.42	23.98
		6	8.93	1.53	10.46	23.98
		7	8.72	1.62	10.35	23.98
		8	8.56	1.83	10.40	23.98

TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11ac_VHT20 Mode: 5500~5700)

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5500	100	0	13.21	23.98
		1	13.09	23.98
		2	13.34	23.98
		3	13.67	23.98
		4	13.64	23.98
		5	13.59	23.98
		6	13.64	23.98
		7	13.65	23.98
		8	13.61	23.98
5580	116	0	13.35	23.98
		1	13.30	23.98
		2	13.49	23.98
		3	13.82	23.98
		4	13.80	23.98
		5	13.85	23.98
		6	13.84	23.98
		7	13.75	23.98
		8	13.79	23.98
5700	140	0	13.12	23.98
		1	13.03	23.98
		2	13.23	23.98
		3	13.58	23.98
		4	13.55	23.98
		5	13.58	23.98
		6	13.62	23.98
		7	13.49	23.98
		8	13.55	23.98

Ant.0

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	10.10	0.25	10.34	30
		1	9.79	0.44	10.23	30
		2	9.88	0.63	10.51	30
		3	10.01	0.81	10.82	30
		4	9.67	1.12	10.79	30
		5	9.46	1.39	10.85	30
		6	9.31	1.51	10.82	30
		7	9.14	1.62	10.76	30
		8	8.92	1.90	10.82	30
5785	157	0	9.63	0.25	9.87	30
		1	9.36	0.44	9.80	30
		2	9.38	0.63	10.01	30
		3	9.50	0.81	10.31	30
		4	9.17	1.12	10.29	30
		5	8.93	1.39	10.32	30
		6	8.86	1.51	10.37	30
		7	8.57	1.62	10.19	30
		8	8.46	1.90	10.36	30
5825	165	0	9.95	0.25	10.19	30
		1	9.66	0.44	10.10	30
		2	9.64	0.63	10.27	30
		3	9.81	0.81	10.63	30
		4	9.48	1.12	10.60	30
		5	9.29	1.39	10.68	30
		6	9.15	1.51	10.66	30
		7	8.93	1.62	10.54	30
		8	8.71	1.90	10.61	30

Ant.1
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	9.89	0.22	10.11	30
		1	9.75	0.43	10.18	30
		2	9.61	0.63	10.24	30
		3	9.77	0.83	10.60	30
		4	9.44	1.13	10.57	30
		5	9.13	1.38	10.51	30
		6	9.00	1.53	10.53	30
		7	8.89	1.62	10.51	30
		8	8.64	1.83	10.47	30
5785	157	0	9.89	0.22	10.11	30
		1	9.51	0.43	9.94	30
		2	9.54	0.63	10.17	30
		3	9.70	0.83	10.53	30
		4	9.36	1.13	10.49	30
		5	9.17	1.38	10.55	30
		6	9.01	1.53	10.54	30
		7	8.88	1.62	10.50	30
		8	8.63	1.83	10.47	30
5825	165	0	10.12	0.22	10.34	30
		1	9.85	0.43	10.29	30
		2	9.88	0.63	10.51	30
		3	10.00	0.83	10.83	30
		4	9.67	1.13	10.80	30
		5	9.41	1.38	10.79	30
		6	9.44	1.53	10.97	30
		7	9.20	1.62	10.82	30
		8	9.02	1.83	10.86	30

■ TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 3)

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

802.11ac_VHT20 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5745	149	0	13.24	30
		1	13.22	30
		2	13.39	30
		3	13.72	30
		4	13.69	30
		5	13.69	30
		6	13.69	30
		7	13.65	30
		8	13.66	30
5785	157	0	13.00	30
		1	12.88	30
		2	13.10	30
		3	13.43	30
		4	13.40	30
		5	13.45	30
		6	13.47	30
		7	13.36	30
		8	13.43	30
5825	165	0	13.28	30
		1	13.21	30
		2	13.40	30
		3	13.74	30
		4	13.71	30
		5	13.75	30
		6	13.83	30
		7	13.69	30
		8	13.75	30

Ant.0

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	8.97	0.45	9.43	23.98
		1	8.57	0.87	9.45	23.98
		2	8.24	1.21	9.46	23.98
		3	7.85	1.46	9.32	23.98
		4	7.43	1.99	9.42	23.98
		5	7.05	2.27	9.32	23.98
		6	6.88	2.42	9.30	23.98
		7	6.71	2.69	9.40	23.98
5230	46	0	8.76	0.45	9.22	23.98
		1	8.37	0.87	9.24	23.98
		2	7.97	1.21	9.18	23.98
		3	7.60	1.46	9.06	23.98
		4	7.11	1.99	9.10	23.98
		5	6.81	2.27	9.08	23.98
		6	6.65	2.42	9.07	23.98
		7	6.44	2.69	9.13	23.98

Ant.1
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	8.74	0.47	9.21	23.98
		1	8.35	0.83	9.18	23.98
		2	7.95	1.16	9.11	23.98
		3	7.57	1.48	9.06	23.98
		4	7.22	1.91	9.13	23.98
		5	6.77	2.28	9.05	23.98
		6	6.64	2.41	9.05	23.98
		7	6.48	2.69	9.16	23.98
5230	46	0	9.07	0.47	9.54	23.98
		1	8.71	0.83	9.54	23.98
		2	8.29	1.16	9.45	23.98
		3	7.83	1.48	9.31	23.98
		4	7.51	1.91	9.42	23.98
		5	7.12	2.28	9.40	23.98
		6	6.99	2.41	9.40	23.98
		7	6.80	2.69	9.49	23.98

■ TEST RESULTS _ Sum Data of Ant.0 and Ant.1 (UNII 1)

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

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5190	38	0	12.33	23.98
		1	12.33	23.98
		2	12.30	23.98
		3	12.20	23.98
		4	12.29	23.98
		5	12.20	23.98
		6	12.19	23.98
		7	12.29	23.98
5230	46	0	12.39	23.98
		1	12.40	23.98
		2	12.33	23.98
		3	12.20	23.98
		4	12.27	23.98
		5	12.25	23.98
		6	12.25	23.98
		7	12.32	23.98

Ant.0

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	8.88	0.45	9.33	23.98
		1	8.54	0.87	9.41	23.98
		2	8.21	1.21	9.43	23.98
		3	7.79	1.46	9.26	23.98
		4	7.34	1.99	9.33	23.98
		5	7.03	2.27	9.30	23.98
		6	6.87	2.42	9.29	23.98
		7	6.65	2.69	9.34	23.98
5310	62	0	9.02	0.45	9.48	23.98
		1	8.74	0.87	9.61	23.98
		2	8.42	1.21	9.64	23.98
		3	8.00	1.46	9.46	23.98
		4	7.56	1.99	9.55	23.98
		5	7.20	2.27	9.47	23.98
		6	7.05	2.42	9.46	23.98
		7	6.87	2.69	9.56	23.98

Ant.1
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	9.05	0.47	9.52	23.98
		1	8.57	0.83	9.40	23.98
		2	8.30	1.16	9.46	23.98
		3	7.99	1.48	9.47	23.98
		4	7.57	1.91	9.49	23.98
		5	7.16	2.28	9.44	23.98
		6	6.97	2.41	9.38	23.98
		7	6.79	2.69	9.48	23.98
5310	62	0	9.27	0.47	9.74	23.98
		1	8.92	0.83	9.74	23.98
		2	8.47	1.16	9.63	23.98
		3	8.18	1.48	9.66	23.98
		4	7.79	1.91	9.70	23.98
		5	7.27	2.28	9.55	23.98
		6	7.13	2.41	9.55	23.98
		7	6.96	2.69	9.64	23.98

TEST RESULTS _ Sum Data of Ant.0 and Ant.1 (UNII 2A)

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

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5270	54	0	12.44	23.98
		1	12.42	23.98
		2	12.46	23.98
		3	12.38	23.98
		4	12.42	23.98
		5	12.38	23.98
		6	12.35	23.98
		7	12.42	23.98
5310	62	0	12.62	23.98
		1	12.69	23.98
		2	12.65	23.98
		3	12.57	23.98
		4	12.64	23.98
		5	12.52	23.98
		6	12.52	23.98
		7	12.61	23.98

Ant.0

802.11n_HT40 (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11n_HT40 Mode: 5510~5670)

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	9.10	0.45	9.55	23.98
		1	8.78	0.87	9.65	23.98
		2	8.43	1.21	9.64	23.98
		3	8.12	1.46	9.58	23.98
		4	7.54	1.99	9.53	23.98
		5	7.22	2.27	9.49	23.98
		6	7.09	2.42	9.51	23.98
		7	6.89	2.69	9.58	23.98
5550	110	0	9.01	0.45	9.46	23.98
		1	8.66	0.87	9.53	23.98
		2	8.31	1.21	9.52	23.98
		3	7.97	1.46	9.43	23.98
		4	7.54	1.99	9.53	23.98
		5	7.16	2.27	9.43	23.98
		6	6.99	2.42	9.41	23.98
		7	6.81	2.69	9.50	23.98
5670	134	0	9.37	0.45	9.83	23.98
		1	8.97	0.87	9.84	23.98
		2	8.56	1.21	9.77	23.98
		3	8.21	1.46	9.67	23.98
		4	7.75	1.99	9.74	23.98
		5	7.40	2.27	9.67	23.98
		6	7.25	2.42	9.67	23.98
		7	7.04	2.69	9.72	23.98

Ant.1
802.11n_HT40 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11n_HT40 Mode: 5510~5670)

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	9.40	0.47	9.87	23.98
		1	8.96	0.83	9.79	23.98
		2	8.69	1.16	9.86	23.98
		3	8.26	1.48	9.74	23.98
		4	7.87	1.91	9.78	23.98
		5	7.52	2.28	9.80	23.98
		6	7.36	2.41	9.77	23.98
		7	7.16	2.69	9.84	23.98
5550	110	0	9.50	0.47	9.97	23.98
		1	9.20	0.83	10.03	23.98
		2	8.75	1.16	9.91	23.98
		3	8.37	1.48	9.85	23.98
		4	7.99	1.91	9.90	23.98
		5	7.60	2.28	9.88	23.98
		6	7.47	2.41	9.88	23.98
		7	7.22	2.69	9.91	23.98
5670	134	0	9.19	0.47	9.66	23.98
		1	8.79	0.83	9.62	23.98
		2	8.50	1.16	9.67	23.98
		3	8.10	1.48	9.58	23.98
		4	7.75	1.91	9.67	23.98
		5	7.39	2.28	9.67	23.98
		6	7.22	2.41	9.63	23.98
		7	7.02	2.69	9.71	23.98

■ TEST RESULTS _ Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11n_HT40 Mode: 5510~5670)

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5510	102	0	12.72	23.98
		1	12.73	23.98
		2	12.76	23.98
		3	12.67	23.98
		4	12.67	23.98
		5	12.66	23.98
		6	12.65	23.98
		7	12.72	23.98
5550	110	0	12.73	23.98
		1	12.80	23.98
		2	12.73	23.98
		3	12.66	23.98
		4	12.73	23.98
		5	12.67	23.98
		6	12.66	23.98
		7	12.72	23.98
5670	134	0	12.76	23.98
		1	12.74	23.98
		2	12.73	23.98
		3	12.64	23.98
		4	12.72	23.98
		5	12.68	23.98
		6	12.66	23.98
		7	12.73	23.98

Ant.0

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	9.51	0.45	9.96	30
		1	9.14	0.87	10.01	30
		2	8.73	1.21	9.94	30
		3	8.43	1.46	9.89	30
		4	8.00	1.99	9.99	30
		5	7.59	2.27	9.86	30
		6	7.44	2.42	9.86	30
		7	7.25	2.69	9.94	30
5795	159	0	9.00	0.45	9.45	30
		1	8.63	0.87	9.50	30
		2	8.32	1.21	9.53	30
		3	7.98	1.46	9.44	30
		4	7.62	1.99	9.61	30
		5	7.15	2.27	9.42	30
		6	7.01	2.42	9.43	30
		7	6.77	2.69	9.45	30

Ant.1
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	9.33	0.47	9.80	30
		1	8.91	0.83	9.74	30
		2	8.58	1.16	9.74	30
		3	8.24	1.48	9.72	30
		4	7.74	1.91	9.66	30
		5	7.42	2.28	9.70	30
		6	7.26	2.41	9.68	30
		7	7.08	2.69	9.77	30
5795	159	0	9.29	0.47	9.77	30
		1	8.99	0.83	9.82	30
		2	8.57	1.16	9.74	30
		3	8.30	1.48	9.78	30
		4	7.75	1.91	9.66	30
		5	7.44	2.28	9.72	30
		6	7.28	2.41	9.69	30
		7	7.08	2.69	9.76	30

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 3)

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

802.11n_HT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5755	151	0	12.89	30
		1	12.89	30
		2	12.85	30
		3	12.82	30
		4	12.84	30
		5	12.79	30
		6	12.78	30
		7	12.87	30
5795	159	0	12.62	30
		1	12.67	30
		2	12.65	30
		3	12.62	30
		4	12.65	30
		5	12.58	30
		6	12.57	30
		7	12.62	30

TEST Plots for Ant.0_802.11n_HT40

802.11n_HT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 38 MCS2



802.11n_HT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 62 MCS2



802.11n_HT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 134 MCS1



802.11n_HT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 151 MCS1



TEST Plots for Ant.1_802.11n_HT40

802.11n_HT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 46 MCS1



802.11n_HT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 62 MCS1



802.11n_HT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 110 MCS1



802.11n_HT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 159 MCS1



Ant.0

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	9.04	0.47	9.51	23.98
		1	8.56	0.83	9.40	23.98
		2	8.24	1.21	9.45	23.98
		3	8.00	1.44	9.44	23.98
		4	7.57	1.89	9.46	23.98
		5	7.14	2.31	9.45	23.98
		6	6.98	2.37	9.35	23.98
		7	6.80	2.55	9.35	23.98
		8	6.60	2.80	9.39	23.98
		9	6.45	2.87	9.32	23.98
5230	46	0	8.84	0.47	9.31	23.98
		1	8.36	0.83	9.19	23.98
		2	8.00	1.21	9.21	23.98
		3	7.67	1.44	9.11	23.98
		4	7.26	1.89	9.15	23.98
		5	6.89	2.31	9.19	23.98
		6	6.72	2.37	9.09	23.98
		7	6.50	2.55	9.05	23.98
		8	6.26	2.80	9.06	23.98
		9	6.18	2.87	9.05	23.98

Ant.1
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	8.65	0.45	9.10	23.98
		1	8.34	0.83	9.17	23.98
		2	7.96	1.20	9.16	23.98
		3	7.69	1.53	9.22	23.98
		4	7.15	1.89	9.04	23.98
		5	6.83	2.23	9.06	23.98
		6	6.61	2.38	9.00	23.98
		7	6.50	2.55	9.05	23.98
		8	6.25	2.82	9.07	23.98
		9	6.13	2.88	9.01	23.98
5230	46	0	8.85	0.45	9.29	23.98
		1	8.60	0.83	9.43	23.98
		2	8.24	1.20	9.44	23.98
		3	7.87	1.53	9.41	23.98
		4	7.54	1.89	9.43	23.98
		5	7.14	2.23	9.38	23.98
		6	6.95	2.38	9.33	23.98
		7	6.81	2.55	9.36	23.98
		8	6.56	2.82	9.37	23.98
		9	6.47	2.88	9.35	23.98

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 1)

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

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5190	38	0	12.32	23.98
		1	12.30	23.98
		2	12.32	23.98
		3	12.34	23.98
		4	12.27	23.98
		5	12.27	23.98
		6	12.19	23.98
		7	12.21	23.98
		8	12.24	23.98
		9	12.18	23.98
5230	46	0	12.31	23.98
		1	12.32	23.98
		2	12.34	23.98
		3	12.27	23.98
		4	12.30	23.98
		5	12.30	23.98
		6	12.22	23.98
		7	12.22	23.98
		8	12.23	23.98
		9	12.21	23.98

Ant.0

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	9.07	0.47	9.54	23.98
		1	8.55	0.83	9.39	23.98
		2	8.19	1.21	9.39	23.98
		3	7.93	1.44	9.37	23.98
		4	7.45	1.89	9.34	23.98
		5	7.06	2.31	9.37	23.98
		6	6.88	2.37	9.26	23.98
		7	6.72	2.55	9.27	23.98
		8	6.51	2.80	9.31	23.98
		9	6.41	2.87	9.28	23.98
5310	62	0	9.16	0.47	9.63	23.98
		1	8.82	0.83	9.66	23.98
		2	8.41	1.21	9.62	23.98
		3	8.10	1.44	9.54	23.98
		4	7.63	1.89	9.52	23.98
		5	7.28	2.31	9.59	23.98
		6	7.13	2.37	9.51	23.98
		7	6.93	2.55	9.48	23.98
		8	6.71	2.80	9.51	23.98
		9	6.61	2.87	9.49	23.98

Ant.1
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	9.15	0.45	9.60	23.98
		1	8.75	0.83	9.58	23.98
		2	8.39	1.20	9.59	23.98
		3	8.12	1.53	9.66	23.98
		4	7.66	1.89	9.55	23.98
		5	7.32	2.23	9.55	23.98
		6	7.13	2.38	9.52	23.98
		7	6.97	2.55	9.52	23.98
		8	6.72	2.82	9.54	23.98
		9	6.61	2.88	9.49	23.98
5310	62	0	9.04	0.45	9.48	23.98
		1	8.78	0.83	9.61	23.98
		2	8.40	1.20	9.60	23.98
		3	8.16	1.53	9.69	23.98
		4	7.68	1.89	9.57	23.98
		5	7.34	2.23	9.57	23.98
		6	7.17	2.38	9.56	23.98
		7	6.93	2.55	9.48	23.98
		8	6.68	2.82	9.50	23.98
		9	6.62	2.88	9.50	23.98

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 2A)

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

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5270	54	0	12.58	23.98
		1	12.50	23.98
		2	12.50	23.98
		3	12.53	23.98
		4	12.46	23.98
		5	12.47	23.98
		6	12.40	23.98
		7	12.41	23.98
		8	12.44	23.98
		9	12.40	23.98
5310	62	0	12.57	23.98
		1	12.65	23.98
		2	12.62	23.98
		3	12.63	23.98
		4	12.56	23.98
		5	12.59	23.98
		6	12.55	23.98
		7	12.49	23.98
		8	12.52	23.98
		9	12.51	23.98

Ant.0

802.11ac_VHT40 (UNII 2C)

TEST RESULTS

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5510~5670)

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	8.98	0.47	9.45	23.98
		1	8.73	0.83	9.56	23.98
		2	8.38	1.21	9.59	23.98
		3	8.06	1.44	9.50	23.98
		4	7.55	1.89	9.45	23.98
		5	7.26	2.31	9.57	23.98
		6	7.07	2.37	9.45	23.98
		7	6.91	2.55	9.46	23.98
		8	6.70	2.80	9.50	23.98
		9	6.63	2.87	9.50	23.98
5550	110	0	9.02	0.47	9.49	23.98
		1	8.59	0.83	9.43	23.98
		2	8.29	1.21	9.50	23.98
		3	8.01	1.44	9.45	23.98
		4	7.57	1.89	9.46	23.98
		5	7.15	2.31	9.46	23.98
		6	7.04	2.37	9.41	23.98
		7	6.83	2.55	9.38	23.98
		8	6.60	2.80	9.40	23.98
		9	6.54	2.87	9.41	23.98
5670	134	0	9.12	0.47	9.59	23.98
		1	8.83	0.83	9.67	23.98
		2	8.50	1.21	9.70	23.98
		3	8.14	1.44	9.58	23.98
		4	7.76	1.89	9.65	23.98
		5	7.44	2.31	9.75	23.98
		6	7.26	2.37	9.63	23.98
		7	7.10	2.55	9.65	23.98
		8	6.89	2.80	9.68	23.98
		9	6.74	2.87	9.62	23.98

Ant.1
802.11ac_VHT40 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5510~5670)

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	9.43	0.45	9.88	23.98
		1	8.92	0.83	9.75	23.98
		2	8.60	1.20	9.80	23.98
		3	8.21	1.53	9.74	23.98
		4	7.89	1.89	9.78	23.98
		5	7.53	2.23	9.76	23.98
		6	7.40	2.38	9.78	23.98
		7	7.19	2.55	9.73	23.98
		8	6.93	2.82	9.75	23.98
		9	6.89	2.88	9.77	23.98
5550	110	0	9.34	0.45	9.79	23.98
		1	9.08	0.83	9.91	23.98
		2	8.72	1.20	9.92	23.98
		3	8.45	1.53	9.99	23.98
		4	7.99	1.89	9.88	23.98
		5	7.59	2.23	9.83	23.98
		6	7.44	2.38	9.83	23.98
		7	7.27	2.55	9.82	23.98
		8	7.06	2.82	9.88	23.98
		9	6.98	2.88	9.86	23.98
5670	134	0	9.45	0.45	9.89	23.98
		1	8.91	0.83	9.74	23.98
		2	8.57	1.20	9.77	23.98
		3	8.24	1.53	9.77	23.98
		4	7.86	1.89	9.75	23.98
		5	7.45	2.23	9.69	23.98
		6	7.29	2.38	9.68	23.98
		7	7.10	2.55	9.65	23.98
		8	6.84	2.82	9.66	23.98
		9	6.80	2.88	9.68	23.98

TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Output Power Measurements (802.11ac_VHT40 Mode: 5510~5670)

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5510	102	0	12.68	23.98
		1	12.67	23.98
		2	12.71	23.98
		3	12.63	23.98
		4	12.63	23.98
		5	12.68	23.98
		6	12.63	23.98
		7	12.61	23.98
		8	12.64	23.98
		9	12.65	23.98
5550	110	0	12.65	23.98
		1	12.69	23.98
		2	12.73	23.98
		3	12.74	23.98
		4	12.69	23.98
		5	12.66	23.98
		6	12.64	23.98
		7	12.62	23.98
		8	12.66	23.98
		9	12.65	23.98
5670	134	0	12.75	23.98
		1	12.72	23.98
		2	12.75	23.98
		3	12.69	23.98
		4	12.71	23.98
		5	12.73	23.98
		6	12.67	23.98
		7	12.66	23.98
		8	12.68	23.98
		9	12.66	23.98

Ant.0

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	9.53	0.47	10.00	30
		1	9.06	0.83	9.89	30
		2	8.74	1.21	9.95	30
		3	8.34	1.44	9.78	30
		4	7.99	1.89	9.88	30
		5	7.65	2.31	9.96	30
		6	7.48	2.37	9.85	30
		7	7.25	2.55	9.80	30
		8	7.02	2.80	9.82	30
		9	6.95	2.87	9.82	30
5795	159	0	9.10	0.47	9.57	30
		1	8.62	0.83	9.45	30
		2	8.26	1.21	9.46	30
		3	7.97	1.44	9.41	30
		4	7.49	1.89	9.38	30
		5	7.13	2.31	9.44	30
		6	7.00	2.37	9.37	30
		7	6.80	2.55	9.35	30
		8	6.60	2.80	9.40	30
		9	6.52	2.87	9.39	30

Ant.1
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	9.26	0.45	9.71	30
		1	8.85	0.83	9.68	30
		2	8.56	1.20	9.76	30
		3	8.19	1.53	9.73	30
		4	7.80	1.89	9.69	30
		5	7.44	2.23	9.67	30
		6	7.30	2.38	9.68	30
		7	7.10	2.55	9.65	30
		8	6.85	2.82	9.67	30
		9	6.82	2.88	9.70	30
5795	159	0	9.21	0.45	9.66	30
		1	8.92	0.83	9.75	30
		2	8.56	1.20	9.76	30
		3	8.21	1.53	9.74	30
		4	7.84	1.89	9.74	30
		5	7.48	2.23	9.72	30
		6	7.39	2.38	9.77	30
		7	7.14	2.55	9.69	30
		8	6.91	2.82	9.73	30
		9	6.83	2.88	9.71	30

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 3)

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

802.11ac_VHT40 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5755	151	0	12.87	30
		1	12.80	30
		2	12.87	30
		3	12.77	30
		4	12.80	30
		5	12.83	30
		6	12.78	30
		7	12.74	30
		8	12.76	30
		9	12.77	30
5795	159	0	12.63	30
		1	12.61	30
		2	12.62	30
		3	12.59	30
		4	12.57	30
		5	12.59	30
		6	12.58	30
		7	12.53	30
		8	12.58	30
		9	12.56	30

TEST Plots for Ant.0_802.11ac_VHT40

802.11ac_VHT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 38 MCS0



802.11ac_VHT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 62 MCS1



802.11ac_VHT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 134 MCS5



802.11ac_VHT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 151 MCS0



TEST Plots for Ant.1_802.11ac_VHT40

802.11ac_VHT40 UNII 1 BAND Average Power (5190 MHz ~5230 MHz) CH 46 MCS2



802.11ac_VHT40 UNII 2A BAND Average Power (5270 MHz ~5310 MHz) CH 62 MCS3



802.11ac_VHT40 UNII 2C BAND Average Power (5510 MHz ~5670 MHz) CH 110 MCS3



802.11ac_VHT40 UNII 3 BAND Average Power (5755 MHz ~5795 MHz) CH 159 MCS6



Ant.0
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	8.81	0.70	9.51	23.98
		1	8.37	1.22	9.60	23.98
		2	7.92	1.64	9.56	23.98
		3	7.82	2.01	9.83	23.98
		4	7.16	2.47	9.63	23.98
		5	6.70	2.87	9.57	23.98
		6	6.71	3.06	9.77	23.98
		7	6.58	3.25	9.84	23.98
		8	6.37	3.18	9.56	23.98
		9	6.23	3.32	9.55	23.98

Ant.1
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	9.06	0.69	9.75	23.98
		1	8.60	1.23	9.83	23.98
		2	8.17	1.64	9.81	23.98
		3	7.90	2.00	9.90	23.98
		4	7.40	2.48	9.88	23.98
		5	7.02	2.88	9.91	23.98
		6	6.83	3.05	9.89	23.98
		7	6.70	3.24	9.94	23.98
		8	6.65	3.46	10.11	23.98
		9	6.49	3.53	10.02	23.98

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 1)

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5210)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5210	42	0	12.64	23.98
		1	12.73	23.98
		2	12.70	23.98
		3	12.88	23.98
		4	12.77	23.98
		5	12.75	23.98
		6	12.84	23.98
		7	12.90	23.98
		8	12.85	23.98
		9	12.80	23.98

Ant.0

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	8.95	0.70	9.65	23.98
		1	8.53	1.22	9.75	23.98
		2	8.10	1.64	9.74	23.98
		3	7.87	2.01	9.88	23.98
		4	7.36	2.47	9.83	23.98
		5	6.89	2.87	9.76	23.98
		6	6.75	3.06	9.82	23.98
		7	6.51	3.25	9.76	23.98
		8	6.49	3.18	9.67	23.98
		9	6.45	3.32	9.77	23.98

Ant.1

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	9.13	0.69	9.82	23.98
		1	8.66	1.23	9.89	23.98
		2	8.28	1.64	9.93	23.98
		3	8.01	2.00	10.02	23.98
		4	7.47	2.48	9.95	23.98
		5	7.09	2.88	9.97	23.98
		6	6.92	3.05	9.98	23.98
		7	6.79	3.24	10.04	23.98
		8	6.61	3.46	10.07	23.98
		9	6.60	3.53	10.13	23.98

TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 2A)

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5290)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5290	58	0	12.75	23.98
		1	12.83	23.98
		2	12.85	23.98
		3	12.96	23.98
		4	12.90	23.98
		5	12.88	23.98
		6	12.91	23.98
		7	12.91	23.98
		8	12.88	23.98
		9	12.96	23.98

Ant.0
802.11ac_VHT80 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5530 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	8.87	0.70	9.57	23.98
		1	8.42	1.22	9.64	23.98
		2	8.02	1.64	9.66	23.98
		3	7.86	2.01	9.88	23.98
		4	7.24	2.47	9.71	23.98
		5	6.84	2.87	9.71	23.98
		6	6.65	3.06	9.72	23.98
		7	6.62	3.25	9.87	23.98
		8	6.40	3.18	9.59	23.98
		9	6.31	3.32	9.63	23.98

Ant.1
802.11ac_VHT80 (UNII 2C)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5530 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	8.81	0.69	9.50	23.98
		1	8.29	1.23	9.52	23.98
		2	8.01	1.64	9.65	23.98
		3	7.65	2.00	9.66	23.98
		4	7.16	2.48	9.64	23.98
		5	6.71	2.88	9.60	23.98
		6	6.66	3.05	9.72	23.98
		7	6.45	3.24	9.69	23.98
		8	6.49	3.46	9.95	23.98
		9	6.24	3.53	9.77	23.98

■ TEST RESULTS_ Sum Data of Ant.0 and Ant.1 (UNII 2C)

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

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5530	106	0	12.55	23.98
		1	12.59	23.98
		2	12.67	23.98
		3	12.78	23.98
		4	12.69	23.98
		5	12.67	23.98
		6	12.73	23.98
		7	12.79	23.98
		8	12.78	23.98
		9	12.71	23.98

Ant.0
802.11ac_VHT80 (UNII 3)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5775)

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	8.60	0.70	9.31	30
		1	8.05	1.22	9.27	30
		2	7.68	1.64	9.33	30
		3	7.45	2.01	9.46	30
		4	6.98	2.47	9.45	30
		5	6.56	2.87	9.43	30
		6	6.36	3.06	9.43	30
		7	6.24	3.25	9.49	30
		8	6.21	3.18	9.39	30
		9	5.99	3.32	9.31	30

Ant.1
802.11ac_VHT80 (UNII 3)
■ TEST RESULTS
Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5775)

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	8.96	0.69	9.66	30
		1	8.52	1.23	9.75	30
		2	8.15	1.64	9.79	30
		3	7.90	2.00	9.91	30
		4	7.35	2.48	9.83	30
		5	6.88	2.88	9.76	30
		6	6.73	3.05	9.79	30
		7	6.65	3.24	9.90	30
		8	6.54	3.46	10.00	30
		9	6.44	3.53	9.97	30

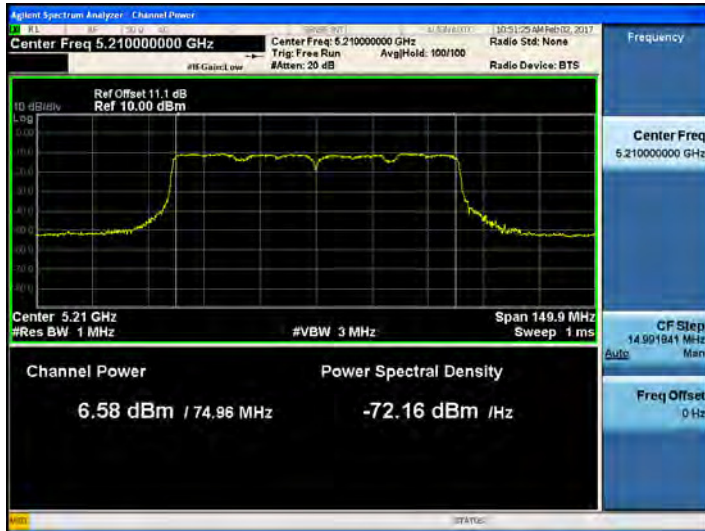
TEST RESULTS_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Output Power Measurements (802.11ac_VHT80 Mode: 5775)

802.11ac_VHT80 Mode		MCS Index	Sum Power of Ant.0 & 1	Limit (dBm)
Frequency [MHz]	Channel No.			
5775	155	0	12.50	30
		1	12.52	30
		2	12.57	30
		3	12.70	30
		4	12.65	30
		5	12.61	30
		6	12.62	30
		7	12.71	30
		8	12.71	30
		9	12.66	30

■ TEST Plots Ant.0 for 802.11ac_VHT80

**802.11ac_VHT80 UNII 1 BAND Average Power
(5210 MHz) CH 42 MCS7**



**802.11ac_VHT80 UNII 2A BAND Average Power
(5290 MHz) CH 58 MCS3**



**802.11ac_VHT80 UNII 2C BAND Average Power
(5530 MHz) CH 106 MCS3**



**802.11ac_VHT80 UNII 3 BAND Average Power
(5775 MHz) CH 155 MCS7**



TEST Plots Ant.1 for 802.11ac_VHT80

802.11ac_VHT80 UNII 1 BAND Average Power (5210 MHz) CH 42 MCS8



802.11ac_VHT80 UNII 2A BAND Average Power (5290 MHz) CH 58 MCS9



802.11ac_VHT80 UNII 2C BAND Average Power (5530 MHz) CH 106 MCS8



802.11ac_VHT80 UNII 3 BAND Average Power (5775 MHz) CH 155 MCS8



9.4 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The maximum permissible peak power spectral density is 11 dBm/ MHz for UNII 1,2A, 2C and 30 dBm/500 kHz for UNII 3.

■ Limit(CDD)

Power Spectral Density

Band	Mode	Limit
UNII 1	802.11a,n,ac	11 dBm/MHz
UNII 2A	802.11a,n,ac	11 dBm/MHz
UNII 2C	802.11a,n,ac	11 dBm/MHz
UNII 3	802.11a,n,ac	30 dBm/500 kHz

Note : Note : According to KDB644545 D03 v01, emission for straddle channels in each band shall comply with the PSD limits applicable to that band under the appropriate rule section.

Power Spectral Density

Operating Mode	Band	Mode	Operating Ant.	Ant. Gain (dBi)	Limit
SISO	UNII 1	802.11a/n/ac	Ant 0	-0.51	11 dBm/MHz
			Ant 1	-2.61	11 dBm/MHz
	UNII 2A		Ant 0	-0.81	11 dBm/MHz
			Ant 1	-2.85	11 dBm/MHz
	UNII 2C		Ant 0	-2.49	11 dBm/MHz
			Ant 1	-2.53	11 dBm/MHz
	UNII 3		Ant 0	-1.93	30 dBm/500 kHz
			Ant 1	-2.26	30 dBm/500 kHz
MIMO(CDD)	UNII 1	802.11a/n/ac	Ant 0 & 1	1.51	11 dBm/MHz
	UNII 2A			1.24	11 dBm/MHz
	UNII 2C			0.50	11 dBm/MHz
	UNII 3			0.92	30 dBm/500 kHz

Note : 1. If all antenna gains are not equal,

$$\text{Directional gain} = 10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dBi (CDD, 802.11a/n/ac)}$$

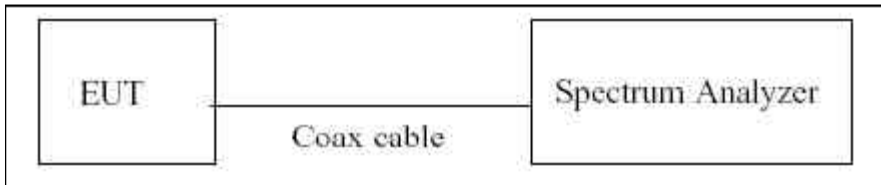
$$\text{Directional gain} = 10 \cdot \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N] \text{ dBi (SDM, 802.11n/ac)}$$

(according to KDB662911 D01 v02r01)

2. Limit is calculated by antenna gain.

3. The limits of maximum conducted power were applied the antenna gain. Therefore, if conducted power is pass, e.i.r.p. is also pass. So, we attached only conducted power table.

■ TEST CONFIGURATION



■ TEST PROCEDURE

We tested according to Method in KDB 789033 D02 v01r03.

The spectrum analyzer is set to :

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
3. VBW $\geq$ 3 MHz
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

■ Sample Calculation

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

Output Power = -5 dBm + 10 dB + 0.8 dB + 0.21 dB = 16.01 dBm

Note :

1. Spectrum reading values are not plot data. The PSD 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. We apply to the offset in the 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. 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)

Ant.0

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a	-0.882	1.495	0.613	11	Pass
5200	40		-0.721	0.824	0.103		Pass
5240	48		-1.074	1.495	0.421		Pass
5260	52		-0.599	1.619	1.020		Pass
5300	60		-0.300	1.495	1.195		Pass
5320	64		-0.123	0.824	0.701		Pass
5500	100		-0.479	1.495	1.016		Pass
5580	116		-0.397	1.495	1.098		Pass
5700	140		-0.644	1.495	0.851		Pass
5745	149		-2.772	1.495	-1.277	30	Pass
5785	157		-3.461	1.495	-1.966		Pass
5825	165		-2.448	0.662	-1.786		Pass

Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a	-0.697	1.155	0.458	11	Pass
5200	40		-1.030	1.495	0.465		Pass
5240	48		-0.276	0.824	0.548		Pass
5260	52		-0.269	0.824	0.555		Pass
5300	60		-0.872	1.495	0.623		Pass
5320	64		-0.852	1.495	0.643		Pass
5500	100		0.126	0.824	0.950		Pass
5580	116		-0.078	1.495	1.417		Pass
5700	140		-0.597	1.495	0.898		Pass
5745	149		-3.181	1.495	-1.686	30	Pass
5785	157		-2.525	0.824	-1.701		Pass
5825	165		-2.804	1.495	-1.309		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11a	3.55	11	Pass
5200	40		3.30		Pass
5240	48		3.50		Pass
5260	52		3.80		Pass
5300	60		3.93		Pass
5320	64		3.68		Pass
5500	100		3.99		Pass
5580	116		4.27		Pass
5700	140		3.88		Pass
5745	149		1.53	30	Pass
5785	157		1.18		Pass
5825	165		1.47		Pass

■ TEST Plot for 802.11a 20MHz BW_Ant.0

802.11a UNII 1 BAND PSD CH 36



802.11a UNII 2A BAND PSD CH 60



802.11a UNII 2C BAND PSD CH 116



802.11a UNII 3 BAND PSD CH 149



■ TEST Plot for 802.11a 20MHz BW_Ant.1

802.11a UNII 1 BAND PSD CH 48



802.11a UNII 2A BAND PSD CH 64



802.11a UNII 2C BAND PSD CH 116



802.11a UNII 3 BAND PSD CH 165



Ant.0

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	-2.235	1.848	-0.387	11	Pass
5200	40		-2.738	1.848	-0.890		Pass
5240	48		-2.228	1.848	-0.380		Pass
5260	52		-2.153	1.848	-0.305		Pass
5300	60		-2.195	1.848	-0.347		Pass
5320	64		-1.790	1.263	-0.527		Pass
5500	100		-1.688	1.263	-0.425		Pass
5580	116		-2.036	1.848	-0.188		Pass
5700	140		-1.744	1.263	-0.481		Pass
5745	149		-4.491	1.848	-2.643	30	Pass
5785	157		-4.946	1.848	-3.098		Pass
5825	165		-4.542	1.848	-2.694		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	-2.798	1.848	-0.950	11	Pass
5200	40		-2.639	1.848	-0.791		Pass
5240	48		-2.297	1.848	-0.449		Pass
5260	52		-1.835	1.263	-0.572		Pass
5300	60		-2.102	1.848	-0.254		Pass
5320	64		-1.989	1.848	-0.141		Pass
5500	100		-1.860	1.608	-0.252		Pass
5580	116		-1.593	1.848	0.255		Pass
5700	140		-2.252	1.848	-0.404		Pass
5745	149		-4.675	1.848	-2.827	30	Pass
5785	157		-4.768	1.848	-2.920		Pass
5825	165		-4.457	1.848	-2.609		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20	2.35	11	Pass
5200	40		2.17		Pass
5240	48		2.60		Pass
5260	52		2.57		Pass
5300	60		2.71		Pass
5320	64		2.68		Pass
5500	100		2.67		Pass
5580	116		3.05		Pass
5700	140		2.57		Pass
5745	149		0.28	30	Pass
5785	157		0.00		Pass
5825	165		0.36		Pass

■ TEST Plot for 802.11n_HT20_Ant.0

802.11n_HT20 UNII 1 BAND PSD CH 48



802.11n_HT20 UNII 2A BAND PSD CH 52



802.11n_HT20 UNII 2C BAND PSD CH 116



802.11n_HT20 UNII 3 BAND PSD CH 149



■ TEST Plot for 802.11n_HT20_Ant.1

802.11n_HT20 UNII 1 BAND PSD CH 48



802.11n_HT20 UNII 2A BAND PSD CH 64



802.11n_HT20 UNII 2C BAND PSD CH 116



802.11n_HT20 UNII 3 BAND PSD CH 165



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	-2.189	1.510	-0.679	11	Pass
5200	40		-3.183	0.815	-2.368		Pass
5240	48		-1.589	0.815	-0.774		Pass
5260	52		-2.211	1.510	-0.701		Pass
5300	60		-2.085	1.124	-0.961		Pass
5320	64		-2.182	1.618	-0.564		Pass
5500	100		-1.391	0.815	-0.576		Pass
5580	116		-2.071	1.510	-0.561		Pass
5700	140		-2.087	1.510	-0.577		Pass
5745	149		-4.256	1.392	-2.864	30	Pass
5785	157		-4.817	1.510	-3.307		Pass
5825	165		-4.456	1.392	-3.064		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	-1.960	0.833	-1.127	11	Pass
5200	40		-2.538	1.534	-1.004		Pass
5240	48		-2.398	1.833	-0.565		Pass
5260	52		-2.633	1.534	-1.099		Pass
5300	60		-2.037	1.534	-0.503		Pass
5320	64		-1.777	1.534	-0.243		Pass
5500	100		-1.701	1.534	-0.167		Pass
5580	116		-1.237	1.378	0.141		Pass
5700	140		-2.117	1.534	-0.583		Pass
5745	149		-4.162	0.833	-3.329	30	Pass
5785	157		-4.617	1.378	-3.239		Pass
5825	165		-4.194	1.534	-2.660		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20	2.11	11	Pass
5200	40		1.38		Pass
5240	48		2.34		Pass
5260	52		2.11		Pass
5300	60		2.28		Pass
5320	64		2.61		Pass
5500	100		2.64		Pass
5580	116		2.81		Pass
5700	140		2.43		Pass
5745	149		-0.08	30	Pass
5785	157		-0.26		Pass
5825	165		0.15		Pass

■ TEST Plot for 802.11ac_VHT20_Ant.0

802.11ac_VHT20 UNII 1 BAND PSD CH 36



802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 116



802.11ac_VHT20 UNII 3 BAND PSD CH 149



■ TEST Plot for 802.11ac_VHT20_Ant.1

802.11ac_VHT20 UNII 1 BAND PSD CH 48



802.11ac_VHT20 UNII 2A BAND PSD CH 64



802.11ac_VHT20 UNII 2C BAND PSD CH 116



802.11ac_VHT20 UNII 3 BAND PSD CH 165



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-5.215	1.213	-4.002	11	Pass
5230	46		-5.274	0.871	-4.403		Pass
5270	54		-5.241	1.213	-4.028		Pass
5310	62		-5.294	1.213	-4.081		Pass
5510	102		-4.784	0.871	-3.913		Pass
5550	110		-6.176	1.989	-4.187		Pass
5670	134		-4.862	0.871	-3.991		Pass
5755	151		-7.761	0.871	-6.890	30	Pass
5795	159		-9.065	1.989	-7.076		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-5.157	0.472	-4.685	11	Pass
5230	46		-4.988	0.829	-4.159		Pass
5270	54		-4.745	0.472	-4.273		Pass
5310	62		-4.893	0.829	-4.064		Pass
5510	102		-4.561	0.472	-4.089		Pass
5550	110		-4.610	0.829	-3.781		Pass
5670	134		-6.727	2.687	-4.040		Pass
5755	151		-7.327	0.472	-6.855	30	Pass
5795	159		-7.690	0.829	-6.861		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40	-1.32	11	Pass
5230	46		-1.27		Pass
5270	54		-1.14		Pass
5310	62		-1.06		Pass
5510	102		-0.99		Pass
5550	110		-0.97		Pass
5670	134		-1.01		Pass
5755	151		-3.86	30	Pass
5795	159		-3.96		Pass

■ TEST Plot for 802.11n_HT40_Ant.0

802.11n_HT40 UNII 1 BAND PSD CH 38



802.11n_HT40 UNII 2A BAND PSD CH 54



802.11n_HT40 UNII 2C BAND PSD CH 102



802.11n_HT40 UNII 3 BAND PSD CH 151



■ TEST Plot for 802.11n_HT40_Ant.1

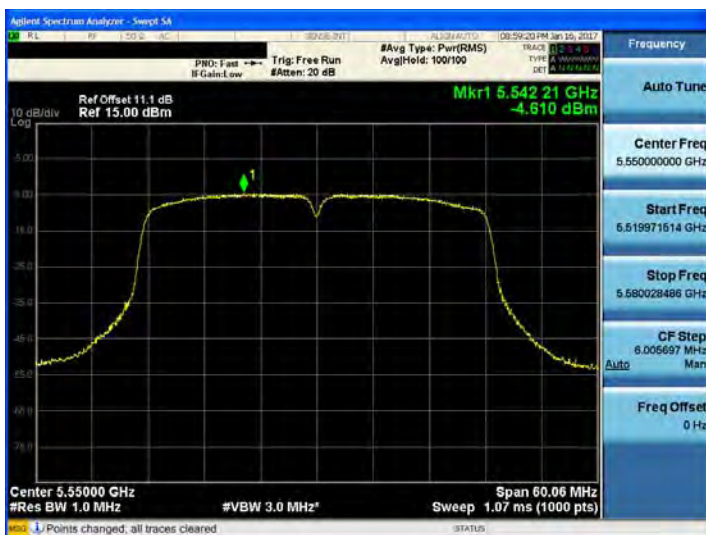
802.11n_HT40 UNII 1 BAND PSD CH 46



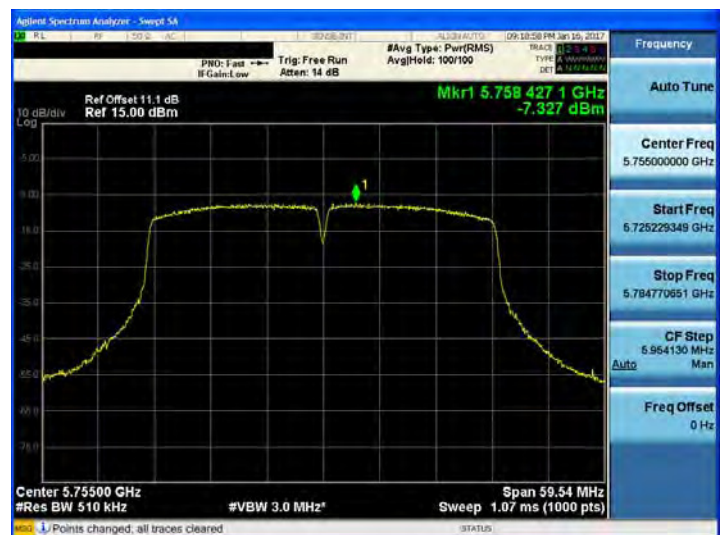
802.11n_HT40 UNII 2A BAND PSD CH 62



802.11n_HT40 UNII 2C BAND PSD CH 110



802.11n_HT40 UNII 3 BAND PSD CH 151



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-4.769	0.469	-4.300	11	Pass
5230	46		-5.058	0.469	-4.589		Pass
5270	54		-4.812	0.469	-4.343		Pass
5310	62		-5.135	0.835	-4.300		Pass
5510	102		-5.308	1.208	-4.100		Pass
5550	110		-5.454	1.208	-4.246		Pass
5670	134		-5.855	2.310	-3.545		Pass
5755	151		-7.362	0.469	-6.893	30	Pass
5795	159		-7.480	0.469	-7.011		Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-6.580	1.534	-5.046	11	Pass
5230	46		-5.368	1.198	-4.170		Pass
5270	54		-6.097	1.534	-4.563		Pass
5310	62		-5.971	1.534	-4.437		Pass
5510	102		-4.528	0.448	-4.080		Pass
5550	110		-5.399	1.534	-3.865		Pass
5670	134		-4.571	0.448	-4.123		Pass
5755	151		-7.831	1.198	-6.633	30	Pass
5795	159		-9.069	2.385	-6.684		Pass

■ Sum Data of Ant.0 and Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

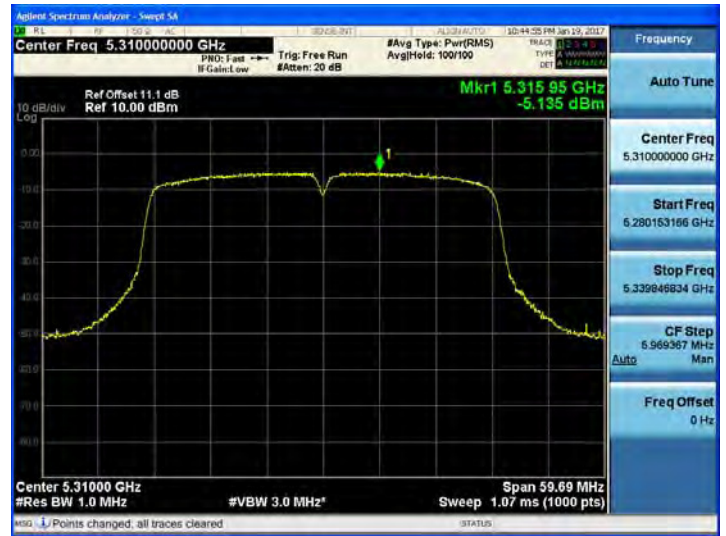
Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-1.65	11	Pass
5230	46		-1.36		Pass
5270	54		-1.44		Pass
5310	62		-1.36		Pass
5510	102		-1.08		Pass
5550	110		-1.04		Pass
5670	134		-0.81		Pass
5755	151		-3.75	30	Pass
5795	159		-3.83		Pass

■ TEST Plot for 802.11ac_VHT40_Ant.0

802.11ac_VHT40 UNII 1 BAND PSD CH 38



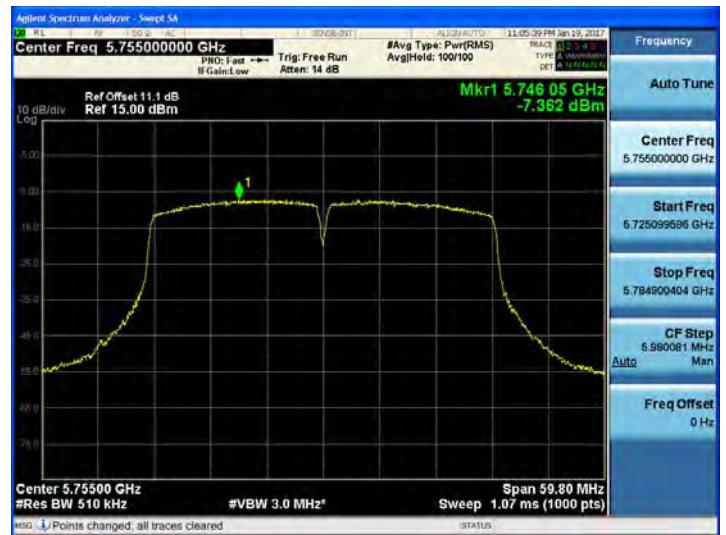
802.11ac_VHT40 UNII 2A BAND PSD CH 62



802.11ac_VHT40 UNII 2C BAND PSD CH 134



802.11ac_VHT40 UNII 3 BAND PSD CH 151



■ TEST Plot for 802.11ac_VHT40_Ant.1

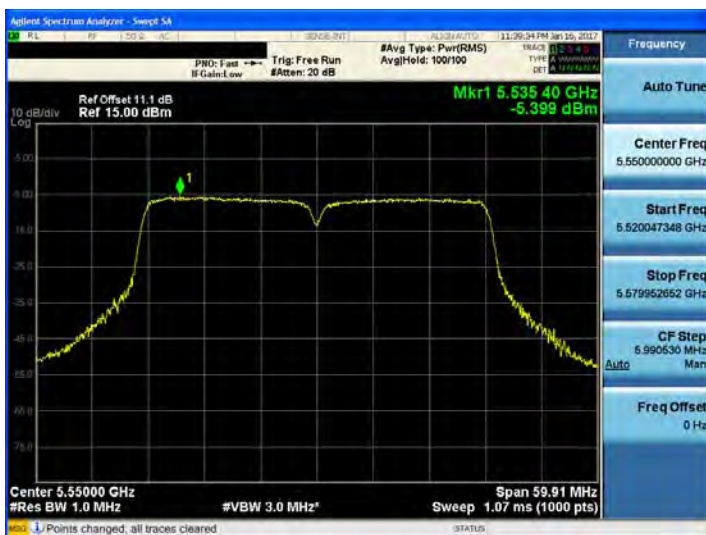
802.11ac_VHT40 UNII 1 BAND PSD CH 46



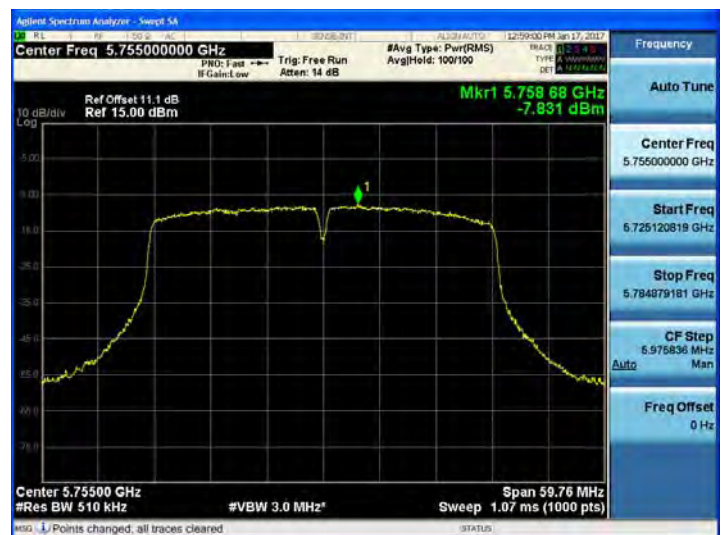
802.11ac_VHT40 UNII 2A BAND PSD CH 62



802.11ac_VHT40 UNII 2C BAND PSD CH 110



802.11ac_VHT40 UNII 3 BAND PSD CH 151



Ant.0
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-9.920	3.252	-6.668	11	Pass
5290	58		-9.193	2.014	-7.179		Pass
5530	106		-9.291	2.014	-7.277		Pass
5775	155		-12.030	3.252	-8.778	30	Pass

Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-10.242	3.460	-6.782	11	Pass
5290	58		-10.330	3.530	-6.800		Pass
5530	106		-10.041	3.460	-6.581		Pass
5775	155		-11.773	3.460	-8.313	30	Pass

☒ Sum Data of Ant.0 and Ant.1☒ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-3.715	11	Pass
5290	58		-3.977		Pass
5530	106		-3.912		Pass
5775	155		-5.532	30	Pass

■ TEST Plot for 802.11ac_VHT80_Ant.0

802.11ac_VHT80 UNII 1 BAND PSD CH 42



802.11ac_VHT80 UNII 2A BAND PSD CH 58



802.11ac_VHT80 UNII 2C BAND PSD CH 106



802.11ac_VHT80 UNII 3 BAND PSD CH 155



■ TEST Plot for 802.11ac_VHT80_Ant.1

802.11ac_VHT80 UNII 1 BAND PSD CH 42



802.11ac_VHT80 UNII 2A BAND PSD CH 58



802.11ac_VHT80 UNII 2C BAND PSD CH 106



802.11ac_VHT80 UNII 3 BAND PSD CH 155



9.5 FREQUENCY STABILITY.

The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C. The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

[Ant.0]

20 MHz BW

OPERATING BAND:	UNII Band 1
OPERATING FREQUENCY:	5,180,000,000 Hz
CHANNEL:	36
REFERENCE VOLTAGE:	7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5180002.76	2.76
Normal		-30	5180003.91	3.91
Normal		-20	5180003.67	3.67
Normal		-10	5180003.48	3.48
Normal		0	5180003.21	3.21
Normal		+10	5180002.97	2.97
Normal		+30	5180002.47	2.47
Normal		+40	5180002.19	2.19
Normal		+50	5180001.78	1.78
High	8.80	+20	5180002.49	2.49
Low	7.35	+20	5180002.93	2.93

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5259993.44	-6.56
Normal		-30	5259994.80	-5.20
Normal		-20	5259994.29	-5.71
Normal		-10	5259994.02	-5.98
Normal		0	5259993.73	-6.27
Normal		+10	5259993.56	-6.44
Normal		+30	5259993.19	-6.81
Normal		+40	5259992.79	-7.21
Normal		+50	5259992.32	-7.68
High	8.80	+20	5259993.56	-6.44
Low	7.35	+20	5259993.13	-6.87

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5500008.41	8.41
Normal		-30	5500009.88	9.88
Normal		-20	5500009.57	9.57
Normal		-10	5500009.31	9.31
Normal		0	5500008.97	8.97
Normal		+10	5500008.65	8.65
Normal		+30	5500008.10	8.1
Normal		+40	5500007.78	7.78
Normal		+50	5500007.38	7.38
High	8.80	+20	5500008.68	8.68
Low	7.35	+20	5500009.01	9.01

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5745010.57	10.57
Normal		-30	5745012.21	12.21
Normal		-20	5745011.74	11.74
Normal		-10	5745011.34	11.34
Normal		0	5745011.05	11.05
Normal		+10	5745010.71	10.71
Normal		+30	5745010.18	10.18
Normal		+40	5745009.77	9.77
Normal		+50	5745009.53	9.53
High	8.80	+20	5745010.67	10.67
Low	7.35	+20	5745010.88	10.88

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

40 MHz BW

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,190,000,000 Hz
CHANNEL: 38
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5189998.15	-1.85
Normal		-30	5189997.07	-2.93
Normal		-20	5189997.23	-2.77
Normal		-10	5189997.49	-2.51
Normal		0	5189997.76	-2.24
Normal		+10	5189997.97	-2.03
Normal		+30	5189998.42	-1.58
Normal		+40	5189998.61	-1.39
Normal		+50	5189998.89	-1.11
High	8.80	+20	5189997.52	-2.48
Low	7.35	+20	5189997.31	-2.69

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5269995.48	-4.52
Normal		-30	5269994.51	-5.49
Normal		-20	5269994.72	-5.28
Normal		-10	5269994.89	-5.11
Normal		0	5269995.05	-4.95
Normal		+10	5269995.27	-4.73
Normal		+30	5269995.61	-4.39
Normal		+40	5269995.78	-4.22
Normal		+50	5269995.93	-4.07
High	8.80	+20	5269995.18	-4.82
Low	7.35	+20	5269994.89	-5.11

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5509991.85	-8.15
Normal		-30	5509991.07	-8.93
Normal		-20	5509991.23	-8.77
Normal		-10	5509991.37	-8.63
Normal		0	5509991.49	-8.51
Normal		+10	5509991.66	-8.34
Normal		+30	5509992.12	-7.88
Normal		+40	5509992.31	-7.69
Normal		+50	5509992.49	-7.51
High	8.80	+20	5509991.77	-8.23
Low	7.35	+20	5509991.59	-8.41

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5754993.53	-6.47
Normal		-30	5754992.17	-7.83
Normal		-20	5754992.46	-7.54
Normal		-10	5754992.90	-7.1
Normal		0	5754993.22	-6.78
Normal		+10	5754993.35	-6.65
Normal		+30	5754993.65	-6.35
Normal		+40	5754993.82	-6.18
Normal		+50	5754993.98	-6.02
High	8.80	+20	5754993.67	-6.33
Low	7.35	+20	5754993.43	-6.57

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

80 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5210007.41	7.41
Normal		-30	5210009.03	9.03
Normal		-20	5210008.57	8.57
Normal		-10	5210008.31	8.31
Normal		0	5210007.91	7.91
Normal		+10	5210007.65	7.65
Normal		+30	5210007.18	7.18
Normal		+40	5210006.94	6.94
Normal		+50	5210006.55	6.55
High	8.80	+20	5210008.25	8.25
Low	7.35	+20	5210008.57	8.57

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5289998.20	-1.80
Normal		-30	5289999.62	-0.38
Normal		-20	5289999.33	-0.67
Normal		-10	5289999.11	-0.89
Normal		0	5289998.89	-1.11
Normal		+10	5289998.55	-1.45
Normal		+30	5289997.79	-2.21
Normal		+40	5289997.42	-2.58
Normal		+50	5289997.09	-2.91
High	8.80	+20	5289997.67	-2.33
Low	7.35	+20	5289997.86	-2.14

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5530005.40	5.40
Normal		-30	5530007.02	7.02
Normal		-20	5530006.55	6.55
Normal		-10	5530006.22	6.22
Normal		0	5530005.97	5.97
Normal		+10	5530005.68	5.68
Normal		+30	5530005.11	5.11
Normal		+40	5530004.78	4.78
Normal		+50	5530004.40	4.40
High	8.80	+20	5530005.88	5.88
Low	7.35	+20	5530006.28	6.28

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5775002.34	2.34
Normal		-30	5775004.55	4.55
Normal		-20	5775004.24	4.24
Normal		-10	5775003.98	3.98
Normal		0	5775003.76	3.76
Normal		+10	5775003.58	3.58
Normal		+30	5775002.11	2.11
Normal		+40	5775001.84	1.84
Normal		+50	5775001.59	1.59
High	8.80	+20	5775002.54	2.54
Low	7.35	+20	5775002.88	2.88

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

[Ant.1]
20 MHz BW

OPERATING BAND:	UNII Band 1
OPERATING FREQUENCY:	5,180,000,000 Hz
CHANNEL:	36
REFERENCE VOLTAGE:	7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5180002.99	2.99
Normal		-30	5180004.12	4.12
Normal		-20	5180003.84	3.84
Normal		-10	5180003.64	3.64
Normal		0	5180003.41	3.41
Normal		+10	5180003.22	3.22
Normal		+30	5180002.84	2.84
Normal		+40	5180002.51	2.51
Normal		+50	5180002.22	2.22
High	8.80	+20	5180002.63	2.63
Low	7.35	+20	5180002.88	2.88

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5259993.13	-6.87
Normal		-30	5259994.57	-5.43
Normal		-20	5259994.19	-5.81
Normal		-10	5259993.79	-6.21
Normal		0	5259993.52	-6.48
Normal		+10	5259993.29	-6.71
Normal		+30	5259993.01	-6.99
Normal		+40	5259992.66	-7.34
Normal		+50	5259992.15	-7.85
High	8.80	+20	5259993.45	-6.55
Low	7.35	+20	5259993.09	-6.91

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5500008.22	8.22
Normal		-30	5500009.61	9.61
Normal		-20	5500009.33	9.33
Normal		-10	5500009.18	9.18
Normal		0	5500008.71	8.71
Normal		+10	5500008.38	8.38
Normal		+30	5500007.84	7.84
Normal		+40	5500007.54	7.54
Normal		+50	5500007.11	7.11
High	8.80	+20	5500008.53	8.53
Low	7.35	+20	5500008.81	8.81

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.70	+20(Ref)	5745010.46	10.46
Normal		-30	5745012.18	12.18
Normal		-20	5745011.93	11.93
Normal		-10	5745011.42	11.42
Normal		0	5745011.22	11.22
Normal		+10	5745010.86	10.86
Normal		+30	5745010.44	10.44
Normal		+40	5745009.86	9.86
Normal		+50	5745009.63	9.63
High	8.80	+20	5745010.56	10.56
Low	7.35	+20	5745010.71	10.71

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

40 MHz BW

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,190,000,000 Hz
CHANNEL: 38
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5189997.79	-2.21
Normal		-30	5189997.16	-2.84
Normal		-20	5189997.07	-2.93
Normal		-10	5189997.37	-2.63
Normal		0	5189997.57	-2.43
Normal		+10	5189997.89	-2.11
Normal		+30	5189998.37	-1.63
Normal		+40	5189998.57	-1.43
Normal		+50	5189998.79	-1.21
High	8.80	+20	5189997.46	-2.54
Low	7.35	+20	5189997.01	-2.99

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,270,000,000 Hz
 CHANNEL: 54
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5269995.43	-4.57
Normal		-30	5269994.15	-5.85
Normal		-20	5269994.63	-5.37
Normal		-10	5269994.71	-5.29
Normal		0	5269994.89	-5.11
Normal		+10	5269995.01	-4.99
Normal		+30	5269995.48	-4.52
Normal		+40	5269995.58	-4.42
Normal		+50	5269995.83	-4.17
High	8.80	+20	5269995.24	-4.76
Low	7.35	+20	5269994.82	-5.18

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5509991.72	-8.28
Normal		-30	5509990.96	-9.04
Normal		-20	5509991.07	-8.93
Normal		-10	5509991.55	-8.45
Normal		0	5509991.72	-8.28
Normal		+10	5509991.89	-8.11
Normal		+30	5509992.13	-7.87
Normal		+40	5509992.39	-7.61
Normal		+50	5509992.61	-7.39
High	8.80	+20	5509991.67	-8.33
Low	7.35	+20	5509991.71	-8.29

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5754993.62	-6.38
Normal		-30	5754992.02	-7.98
Normal		-20	5754992.32	-7.68
Normal		-10	5754992.75	-7.25
Normal		0	5754993.07	-6.93
Normal		+10	5754993.16	-6.84
Normal		+30	5754993.47	-6.53
Normal		+40	5754993.62	-6.38
Normal		+50	5754993.73	-6.27
High	8.80	+20	5754993.52	-6.48
Low	7.35	+20	5754993.19	-6.81

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

80 MHz BW

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5210007.53	7.53
Normal		-30	5210009.15	9.15
Normal		-20	5210008.63	8.63
Normal		-10	5210008.42	8.42
Normal		0	5210008.02	8.02
Normal		+10	5210007.76	7.76
Normal		+30	5210007.32	7.32
Normal		+40	5210007.21	7.21
Normal		+50	5210006.71	6.71
High	8.80	+20	5210008.41	8.41
Low	7.35	+20	5210008.69	8.69

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5289997.89	-2.11
Normal		-30	5289999.52	-0.48
Normal		-20	5289999.19	-0.81
Normal		-10	5289999.04	-0.96
Normal		0	5289998.68	-1.32
Normal		+10	5289998.35	-1.65
Normal		+30	5289997.53	-2.47
Normal		+40	5289997.14	-2.86
Normal		+50	5289996.89	-3.11
High	8.80	+20	5289997.47	-2.53
Low	7.35	+20	5289997.66	-2.34

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5530005.60	5.60
Normal		-30	5530007.15	7.15
Normal		-20	5530006.70	6.7
Normal		-10	5530006.34	6.34
Normal		0	5530006.05	6.05
Normal		+10	5530005.93	5.93
Normal		+30	5530005.27	5.27
Normal		+40	5530004.93	4.93
Normal		+50	5530004.62	4.62
High	8.80	+20	5530005.93	5.93
Low	7.35	+20	5530006.37	6.37

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 7.7 VDC

Voltage	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
Normal	7.7	+20(Ref)	5775002.43	2.43
Normal		-30	5775004.62	4.62
Normal		-20	5775004.43	4.43
Normal		-10	5775004.13	4.13
Normal		0	5775003.94	3.94
Normal		+10	5775003.84	3.84
Normal		+30	5775002.32	2.32
Normal		+40	5775001.93	1.93
Normal		+50	5775001.76	1.76
High	8.80	+20	5775002.37	2.37
Low	7.35	+20	5775002.84	2.84

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

9.6 RADIATED MEASUREMENT**9.6.1 RADIATED SPURIOUS EMISSIONS.****Test Requirements and limit, §15.205, §15.209, §15.407**

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

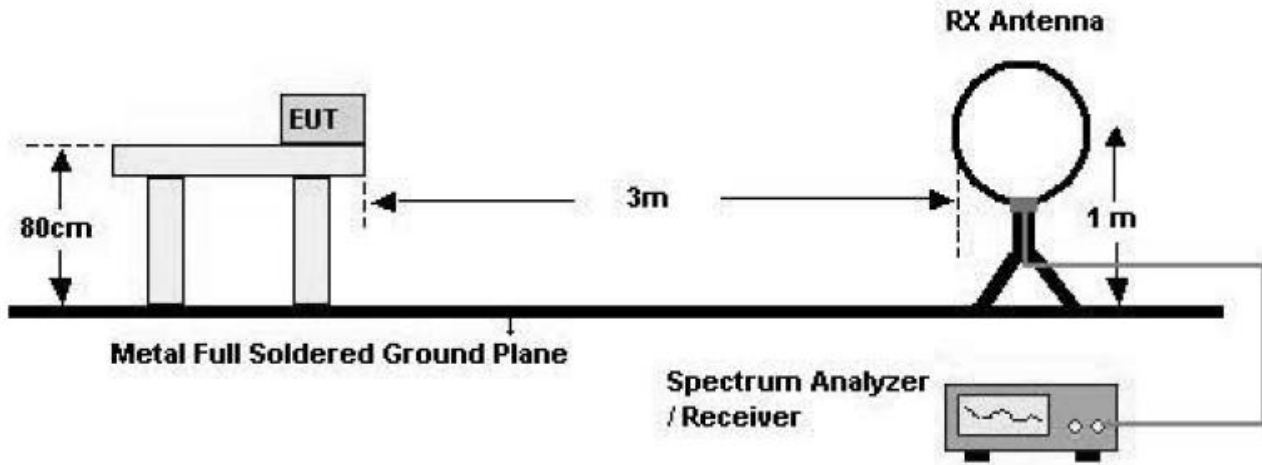
■ §15.407, KDB 789033 D02

All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dBµV/m.

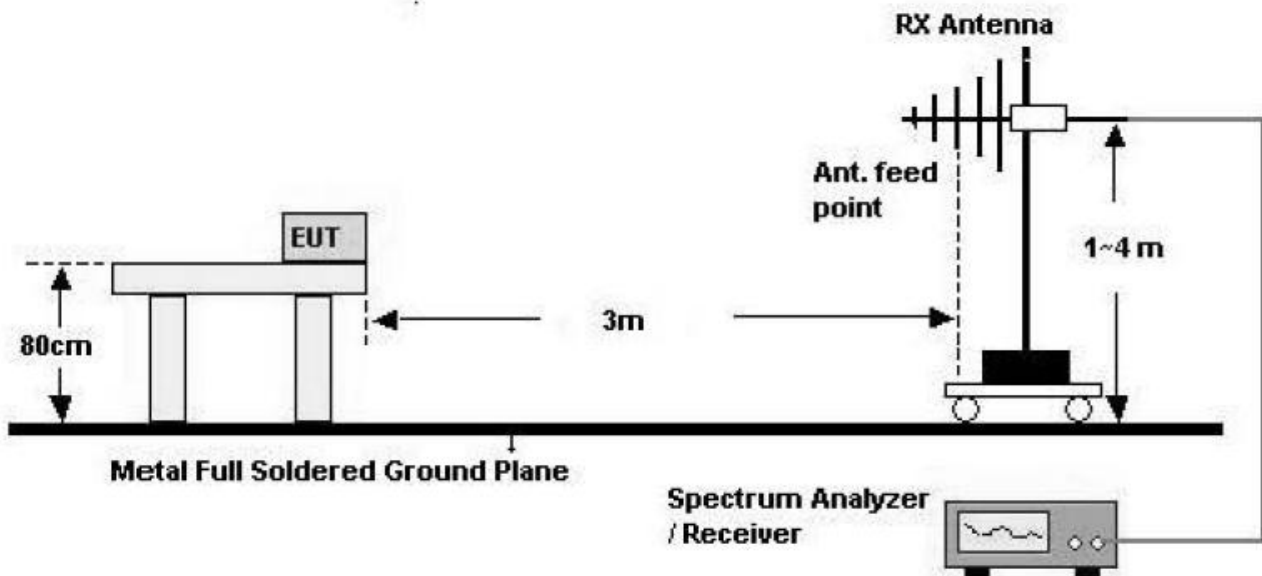
Especially, for transmitter operating in the 5725 Mhz – 5850 MHz : all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequency 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

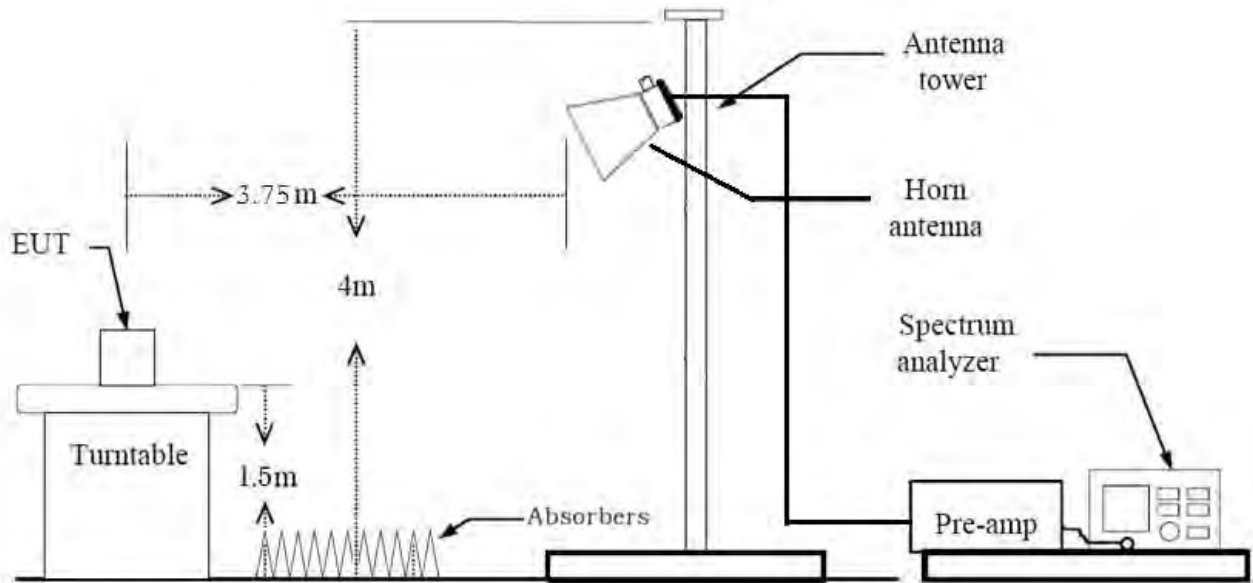
Test Configuration

Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz**TEST PROCEDURE USED**

ANSI C63.10:2013

Method G)5) in KDB 789033 D02 v01r03 (Peak)

Method G)6)d) in KDB 789033 D02 v01r03 (Average)

. Spectrum setting:

- Peak.

1. RBW = 1 MHz

2. VBW $\geq$ 3 MHz

3. Detector = Peak

4. Sweep Time = auto

5. Trace mode = max hold

6. Allow sweeps to continue until the trace stabilizes.

7. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle.

- Average (Method VB :Averaging using reduced video bandwidth)

1. RBW = 1 MHz

2. VBW

2.1. If the EUT is configured to transmit with duty cycle ≥ 98 percent, set $VBW \leq RBW/100$ (i.e., 10 kHz) but not less than 10 Hz.

2.2. If the EUT duty cycle is < 98 percent, set $VBW \geq 1/T$, where T is the minimum transmission duration.

3. The analyzer is set to linear detector mode.

4. Detector = Peak.

5. Sweep time = auto.

6. Trace mode = max hold.

7. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle.

Note :

1. We used the Method VB for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80 mode to perform the average filed strength measurements.

2. The actual setting value of VBW for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80

3. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor(reference distance : 3 m).

4. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Mode	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	2.064	2.181	0.94620185	485	1000
n_HT20	MCS 0	1.925	2.040	0.94371997	519	1000
ac_VHT20	MCS 0	1.933	2.045	0.94491842	517	1000
n_HT40	MCS 0	0.947	1.052	0.90061137	1056	3000
ac_VHT40	MCS 0	0.954	1.062	0.89759036	1049	3000
ac_VHT80	MCS 0	0.600	0.705	0.85031192	1667	3000

TEST RESULTS**9 kHz – 30MHz****Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
4. Limit line = specific Limits (dB μ V) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

TEST RESULTS**Below 1 GHz****Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Above 1 GHz

[Only tablet]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.57	-2.75	V	50.82	68.20	17.38	PK
15540	52.61	-1.23	V	51.38	73.98	22.60	PK
15540	38.27	-1.23	V	37.04	53.98	16.94	AV
10360	54.15	-2.75	H	51.40	68.20	16.80	PK
15540	52.50	-1.23	H	51.27	73.98	22.71	PK
15540	38.36	-1.23	H	37.13	53.98	16.85	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	52.69	-2.60	V	50.09	68.20	18.11	PK
15600	52.44	-2.26	V	50.18	73.98	23.80	PK
15600	38.26	-2.26	V	36.00	53.98	17.98	AV
10400	53.13	-2.60	H	50.53	68.20	17.67	PK
15600	52.67	-2.26	H	50.41	73.98	23.57	PK
15600	38.44	-2.26	H	36.18	53.98	17.80	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	53.53	-3.54	V	49.99	68.20	18.21	PK
15720	51.94	-2.64	V	49.30	73.98	24.68	PK
15720	38.53	-2.64	V	35.89	53.98	18.09	AV
10480	54.05	-3.54	H	50.51	68.20	17.69	PK
15720	52.25	-2.64	H	49.61	73.98	24.37	PK
15720	38.67	-2.64	H	36.03	53.98	17.95	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	54.38	-2.75	V	51.63	68.20	16.57	PK
15540	52.13	-1.23	V	50.90	73.98	23.08	PK
15540	38.06	-1.23	V	36.83	53.98	17.15	AV
10360	54.83	-2.75	H	52.08	68.20	16.12	PK
15540	52.43	-1.23	H	51.20	73.98	22.78	PK
15540	38.24	-1.23	H	37.01	53.98	16.97	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.09	-2.60	V	50.49	68.20	17.71	PK
15600	51.84	-2.26	V	49.58	73.98	24.40	PK
15600	38.17	-2.26	V	35.91	53.98	18.07	AV
10400	53.42	-2.60	H	50.82	68.20	17.38	PK
15600	52.40	-2.26	H	50.14	73.98	23.84	PK
15600	38.29	-2.26	H	36.03	53.98	17.95	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	53.56	-3.54	V	50.02	68.20	18.18	PK
15720	51.97	-2.64	V	49.33	73.98	24.65	PK
15720	38.42	-2.64	V	35.78	53.98	18.20	AV
10480	53.93	-3.54	H	50.39	68.20	17.81	PK
15720	52.33	-2.64	H	49.69	73.98	24.29	PK
15720	38.63	-2.64	H	35.99	53.98	17.99	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.96	-2.75	V	51.21	68.20	16.99	PK
15540	51.84	-1.23	V	50.61	73.98	23.37	PK
15540	38.17	-1.23	V	36.94	53.98	17.04	AV
10360	54.31	-2.75	H	51.56	68.20	16.64	PK
15540	52.59	-1.23	H	51.36	73.98	22.62	PK
15540	38.33	-1.23	H	37.10	53.98	16.88	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	52.64	-2.60	V	50.04	68.20	18.16	PK
15600	51.76	-2.26	V	49.50	73.98	24.48	PK
15600	38.24	-2.26	V	35.98	53.98	18.00	AV
10400	53.02	-2.60	H	50.42	68.20	17.78	PK
15600	52.37	-2.26	H	50.11	73.98	23.87	PK
15600	38.49	-2.26	H	36.23	53.98	17.75	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	53.86	-3.54	V	50.32	68.20	17.88	PK
15720	52.10	-2.64	V	49.46	73.98	24.52	PK
15720	38.49	-2.64	V	35.85	53.98	18.13	AV
10480	54.23	-3.54	H	50.69	68.20	17.51	PK
15720	52.56	-2.64	H	49.92	73.98	24.06	PK
15720	38.73	-2.64	H	36.09	53.98	17.89	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	52.69	-2.74	V	49.95	68.20	18.25	PK
15570	51.53	-1.95	V	49.58	73.98	24.40	PK
15570	38.76	-1.95	V	36.81	53.98	17.17	AV
10380	53.28	-2.74	H	50.54	68.20	17.66	PK
15570	52.57	-1.95	H	50.62	73.98	23.36	PK
15570	38.99	-1.95	H	37.04	53.98	16.94	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.36	-3.07	V	51.29	68.20	16.91	PK
15690	52.17	-0.73	V	51.44	73.98	22.54	PK
15690	38.81	-0.73	V	38.08	53.98	15.90	AV
10460	55.09	-3.07	H	52.02	68.20	16.18	PK
15690	52.71	-0.73	H	51.98	73.98	22.00	PK
15690	39.13	-0.73	H	38.40	53.98	15.58	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	53.37	-2.74	V	50.63	68.20	17.57	PK
15570	52.11	-1.95	V	50.16	73.98	23.82	PK
15570	38.64	-1.95	V	36.69	53.98	17.29	AV
10380	53.79	-2.74	H	51.05	68.20	17.15	PK
15570	52.51	-1.95	H	50.56	73.98	23.42	PK
15570	38.85	-1.95	H	36.90	53.98	17.08	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.29	-3.07	V	51.22	68.20	16.98	PK
15690	52.13	-0.73	V	51.40	73.98	22.58	PK
15690	38.77	-0.73	V	38.04	53.98	15.94	AV
10460	55.03	-3.07	H	51.96	68.20	16.24	PK
15690	52.64	-0.73	H	51.91	73.98	22.07	PK
15690	39.16	-0.73	H	38.43	53.98	15.55	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	53.24	-2.88	V	50.36	68.20	17.84	PK
15630	51.65	-1.88	V	49.77	73.98	24.21	PK
15630	38.97	-1.88	V	37.09	53.98	16.89	AV
10420	53.79	-2.88	H	50.91	68.20	17.29	PK
15630	52.14	-1.88	H	50.26	73.98	23.72	PK
15630	39.35	-1.88	H	37.47	53.98	16.51	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer MCS Index:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	53.91	-2.97	V	50.94	68.20	17.26	PK
15780	51.99	-1.86	V	50.13	73.98	23.85	PK
15780	38.14	-1.86	V	36.28	53.98	17.70	AV
10520	53.62	-2.97	H	50.65	68.20	17.55	PK
15780	51.35	-1.86	H	49.49	73.98	24.49	PK
15780	37.87	-1.86	H	36.01	53.98	17.97	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.71	-3.22	V	50.49	73.98	23.49	PK
10600	41.93	-3.22	V	38.71	53.98	15.27	AV
15900	52.11	-2.44	V	49.67	73.98	24.31	PK
15900	38.06	-2.44	V	35.62	53.98	18.36	AV
10600	53.58	-3.22	H	50.36	73.98	23.62	PK
10600	41.77	-3.22	H	38.55	53.98	15.43	AV
15900	51.28	-2.44	H	48.84	73.98	25.14	PK
15900	37.78	-2.44	H	35.34	53.98	18.64	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.62	-3.27	V	50.35	73.98	23.63	PK
10640	42.06	-3.27	V	38.79	53.98	15.19	AV
15960	51.24	-2.89	V	48.35	73.98	25.63	PK
15960	37.23	-2.89	V	34.34	53.98	19.64	AV
10640	53.36	-3.27	H	50.09	73.98	23.89	PK
10640	41.89	-3.27	H	38.62	53.98	15.36	AV
15960	50.80	-2.89	H	47.91	73.98	26.07	PK
15960	36.95	-2.89	H	34.06	53.98	19.92	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	53.75	-2.97	V	50.78	68.20	17.42	PK
15780	51.97	-1.86	V	50.11	73.98	23.87	PK
15780	38.20	-1.86	V	36.34	53.98	17.64	AV
10520	53.34	-2.97	H	50.37	68.20	17.83	PK
15780	51.66	-1.86	H	49.80	73.98	24.18	PK
15780	38.03	-1.86	H	36.17	53.98	17.81	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.12	-3.22	V	50.90	73.98	23.08	PK
10600	41.77	-3.22	V	38.55	53.98	15.43	AV
15900	52.16	-2.44	V	49.72	73.98	24.26	PK
15900	38.29	-2.44	V	35.85	53.98	18.13	AV
10600	53.59	-3.22	H	50.37	73.98	23.61	PK
10600	41.46	-3.22	H	38.24	53.98	15.74	AV
15900	51.88	-2.44	H	49.44	73.98	24.54	PK
15900	37.97	-2.44	H	35.53	53.98	18.45	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.25	-3.27	V	50.98	73.98	23.00	PK
10640	41.89	-3.27	V	38.62	53.98	15.36	AV
15960	51.33	-2.89	V	48.44	73.98	25.54	PK
15960	37.21	-2.89	V	34.32	53.98	19.66	AV
10640	53.83	-3.27	H	50.56	73.98	23.42	PK
10640	41.52	-3.27	H	38.25	53.98	15.73	AV
15960	50.81	-2.89	H	47.92	73.98	26.06	PK
15960	36.95	-2.89	H	34.06	53.98	19.92	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5260MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.28	-2.97	V	51.31	68.20	16.89	PK
15780	52.31	-1.86	V	50.45	73.98	23.53	PK
15780	38.32	-1.86	V	36.46	53.98	17.52	AV
10520	53.76	-2.97	H	50.79	68.20	17.41	PK
15780	51.69	-1.86	H	49.83	73.98	24.15	PK
15780	38.13	-1.86	H	36.27	53.98	17.71	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.83	-3.22	V	50.61	73.98	23.37	PK
10600	41.92	-3.22	V	38.70	53.98	15.28	AV
15900	52.52	-2.44	V	50.08	73.98	23.90	PK
15900	38.39	-2.44	V	35.95	53.98	18.03	AV
10600	53.39	-3.22	H	50.17	73.98	23.81	PK
10600	41.46	-3.22	H	38.24	53.98	15.74	AV
15900	51.82	-2.44	H	49.38	73.98	24.60	PK
15900	38.05	-2.44	H	35.61	53.98	18.37	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.93	-3.27	V	50.66	73.98	23.32	PK
10640	42.02	-3.27	V	38.75	53.98	15.23	AV
15960	51.84	-2.89	V	48.95	73.98	25.03	PK
15960	37.31	-2.89	V	34.42	53.98	19.56	AV
10640	53.64	-3.27	H	50.37	73.98	23.61	PK
10640	41.55	-3.27	H	38.28	53.98	15.70	AV
15960	50.97	-2.89	H	48.08	73.98	25.90	PK
15960	36.96	-2.89	H	34.07	53.98	19.91	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.97	-2.73	V	51.24	68.20	16.96	PK
15810	52.67	-2.52	V	50.15	73.98	23.83	PK
15810	39.59	-2.52	V	37.07	53.98	16.91	AV
10540	53.34	-2.73	H	50.61	68.20	17.59	PK
15810	51.84	-2.52	H	49.32	73.98	24.66	PK
15810	39.32	-2.52	H	36.80	53.98	17.18	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.58	-3.38	V	50.20	73.98	23.78	PK
10620	42.49	-3.38	V	39.11	53.98	14.87	AV
15930	52.03	-2.78	V	49.25	73.98	24.73	PK
15930	38.91	-2.78	V	36.13	53.98	17.85	AV
10620	53.11	-3.38	H	49.73	73.98	24.25	PK
10620	42.02	-3.38	H	38.64	53.98	15.34	AV
15930	51.33	-2.78	H	48.55	73.98	25.43	PK
15930	38.70	-2.78	H	35.92	53.98	18.06	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.63	-2.73	V	50.90	68.20	17.30	PK
15810	52.57	-2.52	V	50.05	73.98	23.93	PK
15810	39.61	-2.52	V	37.09	53.98	16.89	AV
10540	53.13	-2.73	H	50.40	68.20	17.80	PK
15810	51.78	-2.52	H	49.26	73.98	24.72	PK
15810	39.37	-2.52	H	36.85	53.98	17.13	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	54.29	-3.38	V	50.91	73.98	23.07	PK
10620	42.52	-3.38	V	39.14	53.98	14.84	AV
15930	52.13	-2.78	V	49.35	73.98	24.63	PK
15930	38.97	-2.78	V	36.19	53.98	17.79	AV
10620	53.86	-3.38	H	50.48	73.98	23.50	PK
10620	42.14	-3.38	H	38.76	53.98	15.22	AV
15930	51.31	-2.78	H	48.53	73.98	25.45	PK
15930	38.79	-2.78	H	36.01	53.98	17.97	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	53.64	-3.21	V	50.43	68.20	17.77	PK
15870	51.55	-2.62	V	48.93	73.98	25.05	PK
15870	38.56	-2.62	V	35.94	53.98	18.04	AV
10580	53.13	-3.21	H	49.92	68.20	18.28	PK
15870	50.87	-2.62	H	48.25	73.98	25.73	PK
15870	38.31	-2.62	H	35.69	53.98	18.29	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	54.91	-1.60	V	53.31	73.98	20.67	PK
11000	43.86	-1.60	V	42.26	53.98	11.72	AV
16500	51.66	-0.86	V	50.80	68.20	17.40	PK
11000	55.13	-1.60	H	53.53	73.98	20.45	PK
11000	43.32	-1.60	H	41.72	53.98	12.26	AV
16500	51.29	-0.86	H	50.43	68.20	17.77	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	55.47	-2.03	V	53.44	73.98	20.54	PK
11160	45.51	-2.03	V	43.48	53.98	10.50	AV
16740	51.94	0.18	V	52.12	68.20	16.08	PK
11160	55.10	-2.03	H	53.07	73.98	20.91	PK
11160	45.06	-2.03	H	43.03	53.98	10.95	AV
16740	51.34	0.18	H	51.52	68.20	16.68	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	54.23	-1.92	V	52.31	73.98	21.67	PK
11400	43.93	-1.92	V	42.01	53.98	11.97	AV
17100	51.67	2.19	V	53.86	68.20	14.34	PK
11400	53.88	-1.92	H	51.96	73.98	22.02	PK
11400	43.48	-1.92	H	41.56	53.98	12.42	AV
17100	50.96	2.19	H	53.15	68.20	15.05	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	54.29	-1.60	V	52.69	73.98	21.29	PK
11000	43.66	-1.60	V	42.06	53.98	11.92	AV
16500	51.43	-0.86	V	50.57	68.20	17.63	PK
11000	53.84	-1.60	H	52.24	73.98	21.74	PK
11000	43.29	-1.60	H	41.69	53.98	12.29	AV
16500	50.96	-0.86	H	50.10	68.20	18.10	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	55.31	-2.03	V	53.28	73.98	20.70	PK
11160	45.25	-2.03	V	43.22	53.98	10.76	AV
16740	51.47	0.18	V	51.65	68.20	16.55	PK
11160	54.86	-2.03	H	52.83	73.98	21.15	PK
11160	44.57	-2.03	H	42.54	53.98	11.44	AV
16740	51.02	0.18	H	51.20	68.20	17.00	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	54.62	-1.92	V	52.70	73.98	21.28	PK
11400	43.78	-1.92	V	41.86	53.98	12.12	AV
17100	51.84	2.19	V	54.03	68.20	14.17	PK
11400	54.29	-1.92	H	52.37	73.98	21.61	PK
11400	43.24	-1.92	H	41.32	53.98	12.66	AV
17100	51.30	2.19	H	53.49	68.20	14.71	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	54.10	-1.60	V	52.50	73.98	21.48	PK
11000	43.77	-1.60	V	42.17	53.98	11.81	AV
16500	51.69	-0.86	V	50.83	68.20	17.37	PK
11000	53.69	-1.60	H	52.09	73.98	21.89	PK
11000	43.37	-1.60	H	41.77	53.98	12.21	AV
16500	51.21	-0.86	H	50.35	68.20	17.85	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	55.06	-2.03	V	53.03	73.98	20.95	PK
11160	45.35	-2.03	V	43.32	53.98	10.66	AV
16740	52.10	0.18	V	52.28	68.20	15.92	PK
11160	54.38	-2.03	H	52.35	73.98	21.63	PK
11160	45.00	-2.03	H	42.97	53.98	11.01	AV
16740	51.38	0.18	H	51.56	68.20	16.64	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	53.94	-1.92	V	52.02	73.98	21.96	PK
11400	43.78	-1.92	V	41.86	53.98	12.12	AV
17100	52.09	2.19	V	54.28	68.20	13.92	PK
11400	53.41	-1.92	H	51.49	73.98	22.49	PK
11400	43.23	-1.92	H	41.31	53.98	12.67	AV
17100	51.44	2.19	H	53.63	68.20	14.57	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.50	-1.98	V	52.52	73.98	21.46	PK
11020	44.84	-1.98	V	42.86	53.98	11.12	AV
16530	51.19	-1.57	V	49.62	68.20	18.58	PK
11020	54.10	-1.98	H	52.12	73.98	21.86	PK
11020	44.42	-1.98	H	42.44	53.98	11.54	AV
16530	50.57	-1.57	H	49.00	68.20	19.20	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5550 MHz
Channel No.	110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	55.77	-2.32	V	53.45	73.98	20.53	PK
11100	46.26	-2.32	V	43.94	53.98	10.04	AV
16650	51.38	-1.17	V	50.21	68.20	17.99	PK
11100	55.36	-2.32	H	53.04	73.98	20.94	PK
11100	45.83	-2.32	H	43.51	53.98	10.47	AV
16650	50.63	-1.17	H	49.46	68.20	18.74	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	54.15	-2.23	V	51.92	73.98	22.06	PK
11340	45.09	-2.23	V	42.86	53.98	11.12	AV
17010	51.22	1.75	V	52.97	68.20	15.23	PK
11340	53.87	-2.23	H	51.64	73.98	22.34	PK
11340	44.63	-2.23	H	42.40	53.98	11.58	AV
17010	50.99	1.75	H	52.74	68.20	15.46	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.41	-1.98	V	52.43	73.98	21.55	PK
11020	44.88	-1.98	V	42.90	53.98	11.08	AV
16530	51.21	-1.57	V	49.64	68.20	18.56	PK
11020	53.96	-1.98	H	51.98	73.98	22.00	PK
11020	44.44	-1.98	H	42.46	53.98	11.52	AV
16530	50.63	-1.57	H	49.06	68.20	19.14	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5550 MHz
Channel No.	110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	55.37	-2.32	V	53.05	73.98	20.93	PK
11100	46.48	-2.32	V	44.16	53.98	9.82	AV
16650	51.55	-1.17	V	50.38	68.20	17.82	PK
11100	54.87	-2.32	H	52.55	73.98	21.43	PK
11100	45.02	-2.32	H	42.70	53.98	11.28	AV
16650	51.08	-1.17	H	49.91	68.20	18.29	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	55.15	-2.23	V	52.92	73.98	21.06	PK
11340	44.88	-2.23	V	42.65	53.98	11.33	AV
17010	51.32	1.75	V	53.07	68.20	15.13	PK
11340	54.76	-2.23	H	52.53	73.98	21.45	PK
11340	44.45	-2.23	H	42.22	53.98	11.76	AV
17010	50.99	1.75	H	52.74	68.20	15.46	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	54.68	-2.21	V	52.47	73.98	21.51	PK
11060	45.60	-2.21	V	43.39	53.98	10.59	AV
16590	51.84	-0.60	V	51.24	68.20	16.96	PK
11060	54.16	-2.21	H	51.95	73.98	22.03	PK
11060	45.04	-2.21	H	42.83	53.98	11.15	AV
16590	51.67	-0.60	H	51.07	68.20	17.13	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.64	-2.50	V	52.14	73.98	21.84	PK
11490	44.09	-2.50	V	41.59	53.98	12.39	AV
17235	51.56	3.09	V	54.65	68.20	13.55	PK
11490	55.08	-2.50	H	52.58	73.98	21.40	PK
11490	44.41	-2.50	H	41.91	53.98	12.07	AV
17235	52.24	3.09	H	55.33	68.20	12.87	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.95	-2.87	V	51.08	73.98	22.90	PK
11570	43.47	-2.87	V	40.60	53.98	13.38	AV
17355	50.45	3.45	V	53.90	68.20	14.30	PK
11570	54.47	-2.87	H	51.60	73.98	22.38	PK
11570	43.74	-2.87	H	40.87	53.98	13.11	AV
17355	51.00	3.45	H	54.45	68.20	13.75	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.21	-2.84	V	51.37	73.98	22.61	PK
11650	43.56	-2.84	V	40.72	53.98	13.26	AV
17475	51.29	5.68	V	56.97	68.20	11.23	PK
11650	54.66	-2.84	H	51.82	73.98	22.16	PK
11650	43.98	-2.84	H	41.14	53.98	12.84	AV
17475	52.03	5.68	H	57.71	68.20	10.49	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.44	-2.50	V	51.94	73.98	22.04	PK
11490	43.85	-2.50	V	41.35	53.98	12.63	AV
17235	51.56	3.09	V	54.65	68.20	13.55	PK
11490	54.91	-2.50	H	52.41	73.98	21.57	PK
11490	44.30	-2.50	H	41.80	53.98	12.18	AV
17235	52.21	3.09	H	55.30	68.20	12.90	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.27	-2.87	V	51.40	73.98	22.58	PK
11570	43.29	-2.87	V	40.42	53.98	13.56	AV
17355	50.49	3.45	V	53.94	68.20	14.26	PK
11570	54.88	-2.87	H	52.01	73.98	21.97	PK
11570	43.66	-2.87	H	40.79	53.98	13.19	AV
17355	51.14	3.45	H	54.59	68.20	13.61	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.39	-2.84	V	51.55	73.98	22.43	PK
11650	43.56	-2.84	V	40.72	53.98	13.26	AV
17475	51.20	5.68	V	56.88	68.20	11.32	PK
11650	54.91	-2.84	H	52.07	73.98	21.91	PK
11650	44.07	-2.84	H	41.23	53.98	12.75	AV
17475	51.76	5.68	H	57.44	68.20	10.76	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.31	-2.50	V	51.81	73.98	22.17	PK
11490	43.67	-2.50	V	41.17	53.98	12.81	AV
17235	51.73	3.09	V	54.82	68.20	13.38	PK
11490	54.78	-2.50	H	52.28	73.98	21.70	PK
11490	44.14	-2.50	H	41.64	53.98	12.34	AV
17235	52.52	3.09	H	55.61	68.20	12.59	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.08	-2.87	V	51.21	73.98	22.77	PK
11570	43.32	-2.87	V	40.45	53.98	13.53	AV
17355	50.99	3.45	V	54.44	68.20	13.76	PK
11570	54.51	-2.87	H	51.64	73.98	22.34	PK
11570	43.64	-2.87	H	40.77	53.98	13.21	AV
17355	51.65	3.45	H	55.10	68.20	13.10	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.83	-2.84	V	51.99	73.98	21.99	PK
11650	43.45	-2.84	V	40.61	53.98	13.37	AV
17475	51.39	5.68	V	57.07	68.20	11.13	PK
11650	55.24	-2.84	H	52.40	73.98	21.58	PK
11650	43.82	-2.84	H	40.98	53.98	13.00	AV
17475	52.13	5.68	H	57.81	68.20	10.39	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.77	-2.55	V	51.22	73.98	22.76	PK
11510	44.31	-2.55	V	41.76	53.98	12.22	AV
17265	50.86	3.10	V	53.96	68.20	14.24	PK
11510	54.16	-2.55	H	51.61	73.98	22.37	PK
11510	44.62	-2.55	H	42.07	53.98	11.91	AV
17265	51.14	3.10	H	54.24	68.20	13.96	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.30	-3.29	V	51.01	73.98	22.97	PK
11590	44.76	-3.29	V	41.47	53.98	12.51	AV
17385	50.38	4.19	V	54.57	68.20	13.63	PK
11590	54.65	-3.29	H	51.36	73.98	22.62	PK
11590	45.10	-3.29	H	41.81	53.98	12.17	AV
17385	50.82	4.19	H	55.01	68.20	13.19	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.92	-2.55	V	51.37	73.98	22.61	PK
11510	44.51	-2.55	V	41.96	53.98	12.02	AV
17265	51.14	3.10	V	54.24	68.20	13.96	PK
11510	54.32	-2.55	H	51.77	73.98	22.21	PK
11510	44.79	-2.55	H	42.24	53.98	11.74	AV
17265	51.43	3.10	H	54.53	68.20	13.67	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.96	-3.29	V	51.67	73.98	22.31	PK
11590	44.79	-3.29	V	41.50	53.98	12.48	AV
17385	50.76	4.19	V	54.95	68.20	13.25	PK
11590	55.44	-3.29	H	52.15	73.98	21.83	PK
11590	45.18	-3.29	H	41.89	53.98	12.09	AV
17385	51.23	4.19	H	55.42	68.20	12.78	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	53.48	-2.71	V	50.77	73.98	23.21	PK
11550	43.57	-2.71	V	40.86	53.98	13.12	AV
17325	51.24	3.44	V	54.68	68.20	13.52	PK
11550	53.90	-2.71	H	51.19	73.98	22.79	PK
11550	44.05	-2.71	H	41.34	53.98	12.64	AV
17325	51.55	3.44	H	54.99	68.20	13.21	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

[Tablet+keyboard cover(kickstand)]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	54.35	-2.75	V	51.60	68.20	16.60	PK
15540	52.36	-1.23	V	51.13	73.98	22.85	PK
15540	38.29	-1.23	V	37.06	53.98	16.92	AV
10360	53.89	-2.75	H	51.14	68.20	17.06	PK
15540	51.70	-1.23	H	50.47	73.98	23.51	PK
15540	38.14	-1.23	H	36.91	53.98	17.07	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	52.72	-2.60	V	50.12	68.20	18.08	PK
15600	52.52	-2.26	V	50.26	73.98	23.72	PK
15600	38.39	-2.26	V	36.13	53.98	17.85	AV
10400	52.36	-2.60	H	49.76	68.20	18.44	PK
15600	51.42	-2.26	H	49.16	73.98	24.82	PK
15600	38.11	-2.26	H	35.85	53.98	18.13	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.80	-3.54	V	51.26	68.20	16.94	PK
15720	52.15	-2.64	V	49.51	73.98	24.47	PK
15720	38.58	-2.64	V	35.94	53.98	18.04	AV
10480	54.11	-3.54	H	50.57	68.20	17.63	PK
15720	51.56	-2.64	H	48.92	73.98	25.06	PK
15720	38.47	-2.64	H	35.83	53.98	18.15	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.94	-2.75	V	51.19	68.20	17.01	PK
15540	52.76	-1.23	V	51.53	73.98	22.45	PK
15540	38.30	-1.23	V	37.07	53.98	16.91	AV
10360	53.24	-2.75	H	50.49	68.20	17.71	PK
15540	52.29	-1.23	H	51.06	73.98	22.92	PK
15540	38.13	-1.23	H	36.90	53.98	17.08	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	52.93	-2.60	V	50.33	68.20	17.87	PK
15600	51.78	-2.26	V	49.52	73.98	24.46	PK
15600	38.37	-2.26	V	36.11	53.98	17.87	AV
10400	52.47	-2.60	H	49.87	68.20	18.33	PK
15600	52.39	-2.26	H	50.13	73.98	23.85	PK
15600	38.19	-2.26	H	35.93	53.98	18.05	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.53	-3.54	V	50.99	68.20	17.21	PK
15720	52.59	-2.64	V	49.95	73.98	24.03	PK
15720	38.72	-2.64	V	36.08	53.98	17.90	AV
10480	54.08	-3.54	H	50.54	68.20	17.66	PK
15720	52.19	-2.64	H	49.55	73.98	24.43	PK
15720	38.56	-2.64	H	35.92	53.98	18.06	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	54.05	-2.75	V	51.30	68.20	16.90	PK
15540	52.30	-1.23	V	51.07	73.98	22.91	PK
15540	38.16	-1.23	V	36.93	53.98	17.05	AV
10360	53.62	-2.75	H	50.87	68.20	17.33	PK
15540	51.99	-1.23	H	50.76	73.98	23.22	PK
15540	38.03	-1.23	H	36.80	53.98	17.18	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.24	-2.60	V	50.64	68.20	17.56	PK
15600	51.94	-2.26	V	49.68	73.98	24.30	PK
15600	38.30	-2.26	V	36.04	53.98	17.94	AV
10400	52.88	-2.60	H	50.28	68.20	17.92	PK
15600	51.39	-2.26	H	49.13	73.98	24.85	PK
15600	38.15	-2.26	H	35.89	53.98	18.09	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.66	-3.54	V	51.12	68.20	17.08	PK
15720	52.17	-2.64	V	49.53	73.98	24.45	PK
15720	38.59	-2.64	V	35.95	53.98	18.03	AV
10480	54.09	-3.54	H	50.55	68.20	17.65	PK
15720	51.84	-2.64	H	49.20	73.98	24.78	PK
15720	38.36	-2.64	H	35.72	53.98	18.26	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	52.76	-2.74	V	50.02	68.20	18.18	PK
15570	52.43	-1.95	V	50.48	73.98	23.50	PK
15570	38.95	-1.95	V	37.00	53.98	16.98	AV
10380	52.48	-2.74	H	49.74	68.20	18.46	PK
15570	51.63	-1.95	H	49.68	73.98	24.30	PK
15570	38.81	-1.95	H	36.86	53.98	17.12	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	55.04	-3.07	V	51.97	68.20	16.23	PK
15690	52.62	-0.73	V	51.89	73.98	22.09	PK
15690	39.24	-0.73	V	38.51	53.98	15.47	AV
10460	54.29	-3.07	H	51.22	68.20	16.98	PK
15690	52.26	-0.73	H	51.53	73.98	22.45	PK
15690	38.93	-0.73	H	38.20	53.98	15.78	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	52.98	-2.74	V	50.24	68.20	17.96	PK
15570	52.44	-1.95	V	50.49	73.98	23.49	PK
15570	38.86	-1.95	V	36.91	53.98	17.07	AV
10380	52.33	-2.74	H	49.59	68.20	18.61	PK
15570	52.04	-1.95	H	50.09	73.98	23.89	PK
15570	38.69	-1.95	H	36.74	53.98	17.24	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	55.16	-3.07	V	52.09	68.20	16.11	PK
15690	52.53	-0.73	V	51.80	73.98	22.18	PK
15690	39.02	-0.73	V	38.29	53.98	15.69	AV
10460	54.49	-3.07	H	51.42	68.20	16.78	PK
15690	52.20	-0.73	H	51.47	73.98	22.51	PK
15690	38.73	-0.73	H	38.00	53.98	15.98	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 1
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	52.56	-2.88	V	49.68	68.20	18.52	PK
15630	51.90	-1.88	V	50.02	73.98	23.96	PK
15630	39.27	-1.88	V	37.39	53.98	16.59	AV
10420	51.99	-2.88	H	49.11	68.20	19.09	PK
15630	51.46	-1.88	H	49.58	73.98	24.40	PK
15630	38.93	-1.88	H	37.05	53.98	16.93	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer MCS Index:	6 Mbps
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.72	-2.97	V	51.75	68.20	16.45	PK
15780	51.82	-1.86	V	49.96	73.98	24.02	PK
15780	38.03	-1.86	V	36.17	53.98	17.81	AV
10520	54.36	-2.97	H	51.39	68.20	16.81	PK
15780	50.88	-1.86	H	49.02	73.98	24.96	PK
15780	37.80	-1.86	H	35.94	53.98	18.04	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.84	-3.22	V	50.62	73.98	23.36	PK
10600	41.76	-3.22	V	38.54	53.98	15.44	AV
15900	52.32	-2.44	V	49.88	73.98	24.10	PK
15900	38.30	-2.44	V	35.86	53.98	18.12	AV
10600	53.28	-3.22	H	50.06	73.98	23.92	PK
10600	41.33	-3.22	H	38.11	53.98	15.87	AV
15900	51.40	-2.44	H	48.96	73.98	25.02	PK
15900	37.74	-2.44	H	35.30	53.98	18.68	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.38	-3.27	V	51.11	73.98	22.87	PK
10640	42.24	-3.27	V	38.97	53.98	15.01	AV
15960	51.12	-2.89	V	48.23	73.98	25.75	PK
15960	37.10	-2.89	V	34.21	53.98	19.77	AV
10640	54.00	-3.27	H	50.73	73.98	23.25	PK
10640	41.88	-3.27	H	38.61	53.98	15.37	AV
15960	50.74	-2.89	H	47.85	73.98	26.13	PK
15960	36.88	-2.89	H	33.99	53.98	19.99	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.04	-2.97	V	51.07	68.20	17.13	PK
15780	52.30	-1.86	V	50.44	73.98	23.54	PK
15780	38.24	-1.86	V	36.38	53.98	17.60	AV
10520	53.53	-2.97	H	50.56	68.20	17.64	PK
15780	51.57	-1.86	H	49.71	73.98	24.27	PK
15780	38.09	-1.86	H	36.23	53.98	17.75	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.92	-3.22	V	50.70	73.98	23.28	PK
10600	41.62	-3.22	V	38.40	53.98	15.58	AV
15900	52.34	-2.44	V	49.90	73.98	24.08	PK
15900	38.13	-2.44	V	35.69	53.98	18.29	AV
10600	53.35	-3.22	H	50.13	73.98	23.85	PK
10600	41.29	-3.22	H	38.07	53.98	15.91	AV
15900	51.75	-2.44	H	49.31	73.98	24.67	PK
15900	38.02	-2.44	H	35.58	53.98	18.40	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.99	-3.27	V	50.72	73.98	23.26	PK
10640	42.19	-3.27	V	38.92	53.98	15.06	AV
15960	51.65	-2.89	V	48.76	73.98	25.22	PK
15960	37.29	-2.89	V	34.40	53.98	19.58	AV
10640	53.28	-3.27	H	50.01	73.98	23.97	PK
10640	41.73	-3.27	H	38.46	53.98	15.52	AV
15960	51.20	-2.89	H	48.31	73.98	25.67	PK
15960	36.92	-2.89	H	34.03	53.98	19.95	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5260MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.20	-2.97	V	51.23	68.20	16.97	PK
15780	52.10	-1.86	V	50.24	73.98	23.74	PK
15780	38.12	-1.86	V	36.26	53.98	17.72	AV
10520	53.86	-2.97	H	50.89	68.20	17.31	PK
15780	51.55	-1.86	H	49.69	73.98	24.29	PK
15780	37.96	-1.86	H	36.10	53.98	17.88	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.11	-3.22	V	50.89	73.98	23.09	PK
10600	41.70	-3.22	V	38.48	53.98	15.50	AV
15900	52.28	-2.44	V	49.84	73.98	24.14	PK
15900	38.14	-2.44	V	35.70	53.98	18.28	AV
10600	53.47	-3.22	H	50.25	73.98	23.73	PK
10600	41.36	-3.22	H	38.14	53.98	15.84	AV
15900	51.76	-2.44	H	49.32	73.98	24.66	PK
15900	37.89	-2.44	H	35.45	53.98	18.53	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.09	-3.27	V	50.82	73.98	23.16	PK
10640	42.12	-3.27	V	38.85	53.98	15.13	AV
15960	51.38	-2.89	V	48.49	73.98	25.49	PK
15960	37.10	-2.89	V	34.21	53.98	19.77	AV
10640	53.27	-3.27	H	50.00	73.98	23.98	PK
10640	41.70	-3.27	H	38.43	53.98	15.55	AV
15960	50.64	-2.89	H	47.75	73.98	26.23	PK
15960	36.83	-2.89	H	33.94	53.98	20.04	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.67	-2.73	V	50.94	68.20	17.26	PK
15810	52.78	-2.52	V	50.26	73.98	23.72	PK
15810	39.38	-2.52	V	36.86	53.98	17.12	AV
10540	53.14	-2.73	H	50.41	68.20	17.79	PK
15810	51.71	-2.52	H	49.19	73.98	24.79	PK
15810	39.23	-2.52	H	36.71	53.98	17.27	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.78	-3.38	V	50.40	73.98	23.58	PK
10620	42.71	-3.38	V	39.33	53.98	14.65	AV
15930	51.89	-2.78	V	49.11	73.98	24.87	PK
15930	38.80	-2.78	V	36.02	53.98	17.96	AV
10620	53.19	-3.38	H	49.81	73.98	24.17	PK
10620	42.42	-3.38	H	39.04	53.98	14.94	AV
15930	51.26	-2.78	H	48.48	73.98	25.50	PK
15930	38.62	-2.78	H	35.84	53.98	18.14	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.82	-2.73	V	51.09	68.20	17.11	PK
15810	52.48	-2.52	V	49.96	73.98	24.02	PK
15810	39.44	-2.52	V	36.92	53.98	17.06	AV
10540	53.51	-2.73	H	50.78	68.20	17.42	PK
15810	51.69	-2.52	H	49.17	73.98	24.81	PK
15810	39.21	-2.52	H	36.69	53.98	17.29	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.33	-3.38	V	49.95	73.98	24.03	PK
10620	42.60	-3.38	V	39.22	53.98	14.76	AV
15930	51.89	-2.78	V	49.11	73.98	24.87	PK
15930	38.87	-2.78	V	36.09	53.98	17.89	AV
10620	52.78	-3.38	H	49.40	73.98	24.58	PK
10620	42.32	-3.38	H	38.94	53.98	15.04	AV
15930	51.24	-2.78	H	48.46	73.98	25.52	PK
15930	38.61	-2.78	H	35.83	53.98	18.15	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	53.12	-3.21	V	49.91	68.20	18.29	PK
15870	51.34	-2.62	V	48.72	73.98	25.26	PK
15870	38.40	-2.62	V	35.78	53.98	18.20	AV
10580	52.78	-3.21	H	49.57	68.20	18.63	PK
15870	50.11	-2.62	H	47.49	73.98	26.49	PK
15870	38.17	-2.62	H	35.55	53.98	18.43	AV

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.55	-1.60	V	50.95	73.98	23.03	PK
11000	42.14	-1.60	V	40.54	53.98	13.44	AV
16500	51.57	-0.86	V	50.71	68.20	17.49	PK
11000	52.06	-1.60	H	50.46	73.98	23.52	PK
11000	41.86	-1.60	H	40.26	53.98	13.72	AV
16500	50.84	-0.86	H	49.98	68.20	18.22	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	54.53	-2.03	V	52.50	73.98	21.48	PK
11160	44.70	-2.03	V	42.67	53.98	11.31	AV
16740	51.82	0.18	V	52.00	68.20	16.20	PK
11160	54.09	-2.03	H	52.06	73.98	21.92	PK
11160	44.25	-2.03	H	42.22	53.98	11.76	AV
16740	50.94	0.18	H	51.12	68.20	17.08	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	53.29	-1.92	V	51.37	73.98	22.61	PK
11400	42.93	-1.92	V	41.01	53.98	12.97	AV
17100	51.88	2.19	V	54.07	68.20	14.13	PK
11400	52.72	-1.92	H	50.80	73.98	23.18	PK
11400	42.46	-1.92	H	40.54	53.98	13.44	AV
17100	50.80	2.19	H	52.99	68.20	15.21	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.60	-1.60	V	51.00	73.98	22.98	PK
11000	41.88	-1.60	V	40.28	53.98	13.70	AV
16500	51.57	-0.86	V	50.71	68.20	17.49	PK
11000	52.20	-1.60	H	50.60	73.98	23.38	PK
11000	41.39	-1.60	H	39.79	53.98	14.19	AV
16500	51.10	-0.86	H	50.24	68.20	17.96	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	54.44	-2.03	V	52.41	73.98	21.57	PK
11160	44.57	-2.03	V	42.54	53.98	11.44	AV
16740	51.94	0.18	V	52.12	68.20	16.08	PK
11160	53.81	-2.03	H	51.78	73.98	22.20	PK
11160	44.09	-2.03	H	42.06	53.98	11.92	AV
16740	51.22	0.18	H	51.40	68.20	16.80	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	53.27	-1.92	V	51.35	73.98	22.63	PK
11400	42.86	-1.92	V	40.94	53.98	13.04	AV
17100	51.73	2.19	V	53.92	68.20	14.28	PK
11400	52.39	-1.92	H	50.47	73.98	23.51	PK
11400	42.42	-1.92	H	40.50	53.98	13.48	AV
17100	51.28	2.19	H	53.47	68.20	14.73	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500MHz
Channel No.	100 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.79	-1.60	V	51.19	73.98	22.79	PK
11000	41.96	-1.60	V	40.36	53.98	13.62	AV
16500	51.53	-0.86	V	50.67	68.20	17.53	PK
11000	52.28	-1.60	H	50.68	73.98	23.30	PK
11000	41.55	-1.60	H	39.95	53.98	14.03	AV
16500	50.81	-0.86	H	49.95	68.20	18.25	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5580 MHz
Channel No.	116 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	54.71	-2.03	V	52.68	73.98	21.30	PK
11160	44.54	-2.03	V	42.51	53.98	11.47	AV
16740	51.60	0.18	V	51.78	68.20	16.42	PK
11160	54.27	-2.03	H	52.24	73.98	21.74	PK
11160	44.12	-2.03	H	42.09	53.98	11.89	AV
16740	51.24	0.18	H	51.42	68.20	16.78	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	53.19	-1.92	V	51.27	73.98	22.71	PK
11400	42.75	-1.92	V	40.83	53.98	13.15	AV
17100	51.63	2.19	V	53.82	68.20	14.38	PK
11400	52.88	-1.92	H	50.96	73.98	23.02	PK
11400	42.37	-1.92	H	40.45	53.98	13.53	AV
17100	51.29	2.19	H	53.48	68.20	14.72	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	52.79	-1.98	V	50.81	73.98	23.17	PK
11020	42.64	-1.98	V	40.66	53.98	13.32	AV
16530	51.28	-1.57	V	49.71	68.20	18.49	PK
11020	52.27	-1.98	H	50.29	73.98	23.69	PK
11020	42.26	-1.98	H	40.28	53.98	13.70	AV
16530	50.40	-1.57	H	48.83	68.20	19.37	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5550 MHz
Channel No.	110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	54.00	-2.32	V	51.68	73.98	22.30	PK
11100	44.22	-2.32	V	41.90	53.98	12.08	AV
16650	51.30	-1.17	V	50.13	68.20	18.07	PK
11100	53.53	-2.32	H	51.21	73.98	22.77	PK
11100	43.78	-2.32	H	41.46	53.98	12.52	AV
16650	50.59	-1.17	H	49.42	68.20	18.78	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	53.38	-2.23	V	51.15	73.98	22.83	PK
11340	43.46	-2.23	V	41.23	53.98	12.75	AV
17010	51.22	1.75	V	52.97	68.20	15.23	PK
11340	52.64	-2.23	H	50.41	73.98	23.57	PK
11340	43.10	-2.23	H	40.87	53.98	13.11	AV
17010	50.93	1.75	H	52.68	68.20	15.52	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	52.88	-1.98	V	50.90	73.98	23.08	PK
11020	42.73	-1.98	V	40.75	53.98	13.23	AV
16530	51.04	-1.57	V	49.47	68.20	18.73	PK
11020	52.24	-1.98	H	50.26	73.98	23.72	PK
11020	42.30	-1.98	H	40.32	53.98	13.66	AV
16530	50.49	-1.57	H	48.92	68.20	19.28	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5550 MHz
Channel No.	110 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	53.82	-2.32	V	51.50	73.98	22.48	PK
11100	44.23	-2.32	V	41.91	53.98	12.07	AV
16650	51.29	-1.17	V	50.12	68.20	18.08	PK
11100	53.26	-2.32	H	50.94	73.98	23.04	PK
11100	43.89	-2.32	H	41.57	53.98	12.41	AV
16650	50.52	-1.17	H	49.35	68.20	18.85	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	53.24	-2.23	V	51.01	73.98	22.97	PK
11340	43.35	-2.23	V	41.12	53.98	12.86	AV
17010	51.18	1.75	V	52.93	68.20	15.27	PK
11340	52.74	-2.23	H	50.51	73.98	23.47	PK
11340	42.95	-2.23	H	40.72	53.98	13.26	AV
17010	50.78	1.75	H	52.53	68.20	15.67	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	53.50	-2.21	V	51.29	73.98	22.69	PK
11060	43.55	-2.21	V	41.34	53.98	12.64	AV
16590	51.71	-0.60	V	51.11	68.20	17.09	PK
11060	52.46	-2.21	H	50.25	73.98	23.73	PK
11060	43.21	-2.21	H	41.00	53.98	12.98	AV
16590	51.33	-0.60	H	50.73	68.20	17.47	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5745MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.67	-2.50	V	52.17	73.98	21.81	PK
11490	43.14	-2.50	V	40.64	53.98	13.34	AV
17235	52.04	3.09	V	55.13	68.20	13.07	PK
11490	54.20	-2.50	H	51.70	73.98	22.28	PK
11490	42.73	-2.50	H	40.23	53.98	13.75	AV
17235	51.28	3.09	H	54.37	68.20	13.83	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.30	-2.87	V	51.43	73.98	22.55	PK
11570	43.02	-2.87	V	40.15	53.98	13.83	AV
17355	50.84	3.45	V	54.29	68.20	13.91	PK
11570	53.86	-2.87	H	50.99	73.98	22.99	PK
11570	42.73	-2.87	H	39.86	53.98	14.12	AV
17355	50.53	3.45	H	53.98	68.20	14.22	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.80	-2.84	V	50.96	73.98	23.02	PK
11650	42.96	-2.84	V	40.12	53.98	13.86	AV
17475	51.92	5.68	V	57.60	68.20	10.60	PK
11650	53.24	-2.84	H	50.40	73.98	23.58	PK
11650	42.62	-2.84	H	39.78	53.98	14.20	AV
17475	50.41	5.68	H	56.09	68.20	12.11	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.70	-2.50	V	52.20	73.98	21.78	PK
11490	43.11	-2.50	V	40.61	53.98	13.37	AV
17235	52.13	3.09	V	55.22	68.20	12.98	PK
11490	54.26	-2.50	H	51.76	73.98	22.22	PK
11490	42.67	-2.50	H	40.17	53.98	13.81	AV
17235	51.65	3.09	H	54.74	68.20	13.46	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.96	-2.87	V	51.09	73.98	22.89	PK
11570	43.11	-2.87	V	40.24	53.98	13.74	AV
17355	51.25	3.45	V	54.70	68.20	13.50	PK
11570	53.44	-2.87	H	50.57	73.98	23.41	PK
11570	42.58	-2.87	H	39.71	53.98	14.27	AV
17355	50.64	3.45	H	54.09	68.20	14.11	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.46	-2.84	V	51.62	73.98	22.36	PK
11650	43.05	-2.84	V	40.21	53.98	13.77	AV
17475	51.89	5.68	V	57.57	68.20	10.63	PK
11650	54.13	-2.84	H	51.29	73.98	22.69	PK
11650	42.57	-2.84	H	39.73	53.98	14.25	AV
17475	51.32	5.68	H	57.00	68.20	11.20	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	54.56	-2.50	V	52.06	73.98	21.92	PK
11490	43.22	-2.50	V	40.72	53.98	13.26	AV
17235	52.12	3.09	V	55.21	68.20	12.99	PK
11490	54.13	-2.50	H	51.63	73.98	22.35	PK
11490	42.84	-2.50	H	40.34	53.98	13.64	AV
17235	51.65	3.09	H	54.74	68.20	13.46	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.06	-2.87	V	51.19	73.98	22.79	PK
11570	42.98	-2.87	V	40.11	53.98	13.87	AV
17355	51.34	3.45	V	54.79	68.20	13.41	PK
11570	53.83	-2.87	H	50.96	73.98	23.02	PK
11570	42.66	-2.87	H	39.79	53.98	14.19	AV
17355	50.91	3.45	H	54.36	68.20	13.84	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.81	-2.84	V	50.97	73.98	23.01	PK
11650	42.89	-2.84	V	40.05	53.98	13.93	AV
17475	51.92	5.68	V	57.60	68.20	10.60	PK
11650	53.14	-2.84	H	50.30	73.98	23.68	PK
11650	42.62	-2.84	H	39.78	53.98	14.20	AV
17475	51.27	5.68	H	56.95	68.20	11.25	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	54.68	-2.55	V	52.13	73.98	21.85	PK
11510	43.92	-2.55	V	41.37	53.98	12.61	AV
17265	50.92	3.10	V	54.02	68.20	14.18	PK
11510	54.17	-2.55	H	51.62	73.98	22.36	PK
11510	43.56	-2.55	H	41.01	53.98	12.97	AV
17265	50.31	3.10	H	53.41	68.20	14.79	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.45	-3.29	V	51.16	73.98	22.82	PK
11590	44.32	-3.29	V	41.03	53.98	12.95	AV
17385	50.74	4.19	V	54.93	68.20	13.27	PK
11590	53.79	-3.29	H	50.50	73.98	23.48	PK
11590	43.88	-3.29	H	40.59	53.98	13.39	AV
17385	49.83	4.19	H	54.02	68.20	14.18	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	54.85	-2.55	V	52.30	73.98	21.68	PK
11510	43.92	-2.55	V	41.37	53.98	12.61	AV
17265	51.21	3.10	V	54.31	68.20	13.89	PK
11510	54.27	-2.55	H	51.72	73.98	22.26	PK
11510	43.54	-2.55	H	40.99	53.98	12.99	AV
17265	50.77	3.10	H	53.87	68.20	14.33	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.89	-3.29	V	51.60	73.98	22.38	PK
11590	44.21	-3.29	V	40.92	53.98	13.06	AV
17385	50.94	4.19	V	55.13	68.20	13.07	PK
11590	54.27	-3.29	H	50.98	73.98	23.00	PK
11590	43.83	-3.29	H	40.54	53.98	13.44	AV
17385	50.42	4.19	H	54.61	68.20	13.59	PK

*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

Band :	UNII 3
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	53.71	-2.71	V	51.00	73.98	22.98	PK
11550	43.22	-2.71	V	40.51	53.98	13.47	AV
17325	51.34	3.44	V	54.78	68.20	13.42	PK
11550	53.23	-2.71	H	50.52	73.98	23.46	PK
11550	42.89	-2.71	H	40.18	53.98	13.80	AV
17325	51.06	3.44	H	54.50	68.20	13.70	PK

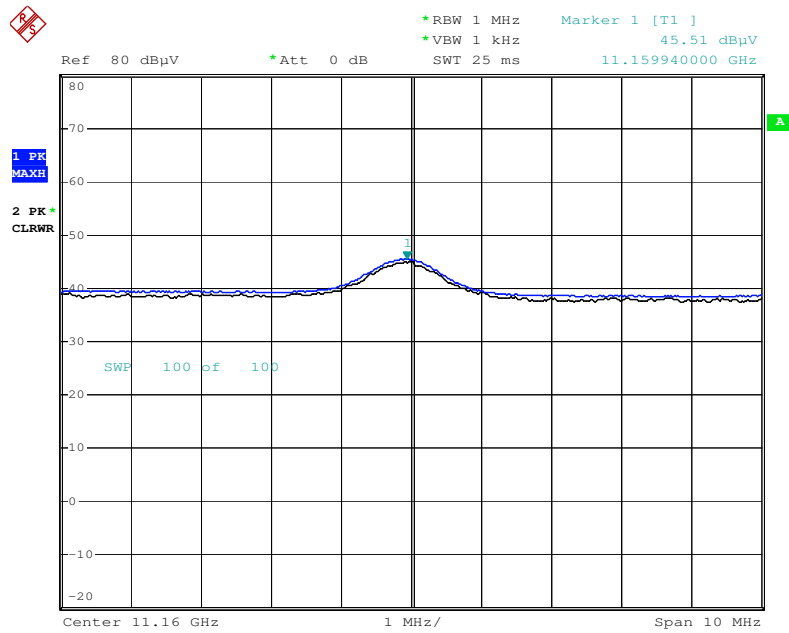
*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)

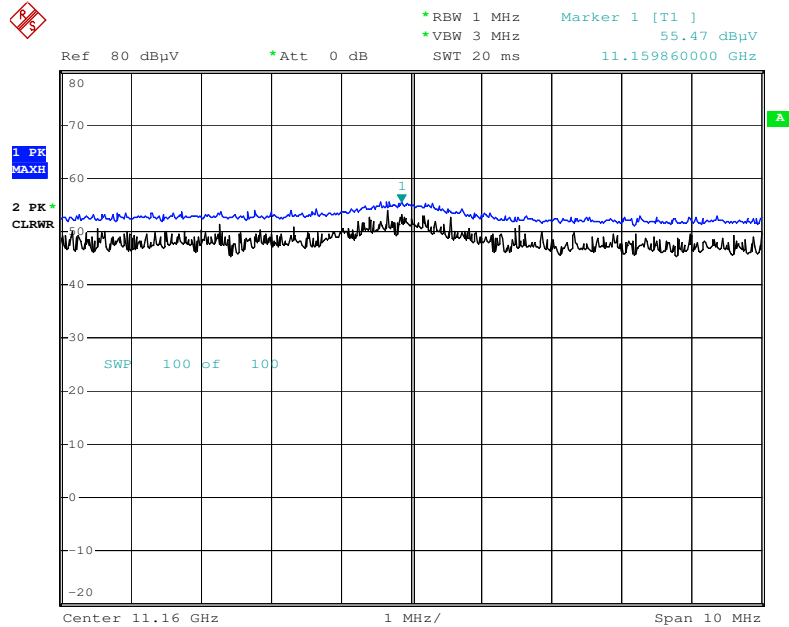
■ **RESULT PLOTS(Only Tablet)**

Radiated Spurious Emissions plot –Average Reading (802.11a, Ch.116 2nd Harmonic, Z-V)



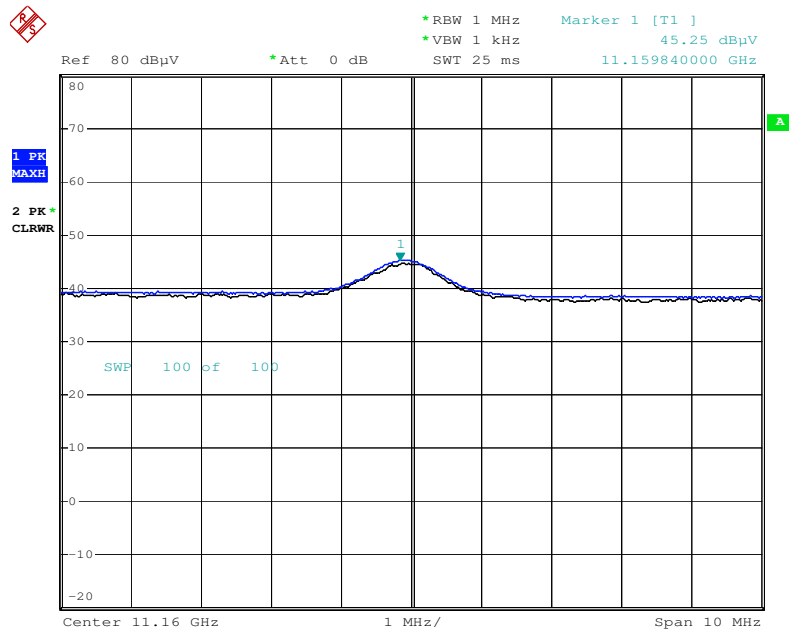
Date: 16.JAN.2017 15:20:07

Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.116 2nd Harmonic, Z-V)



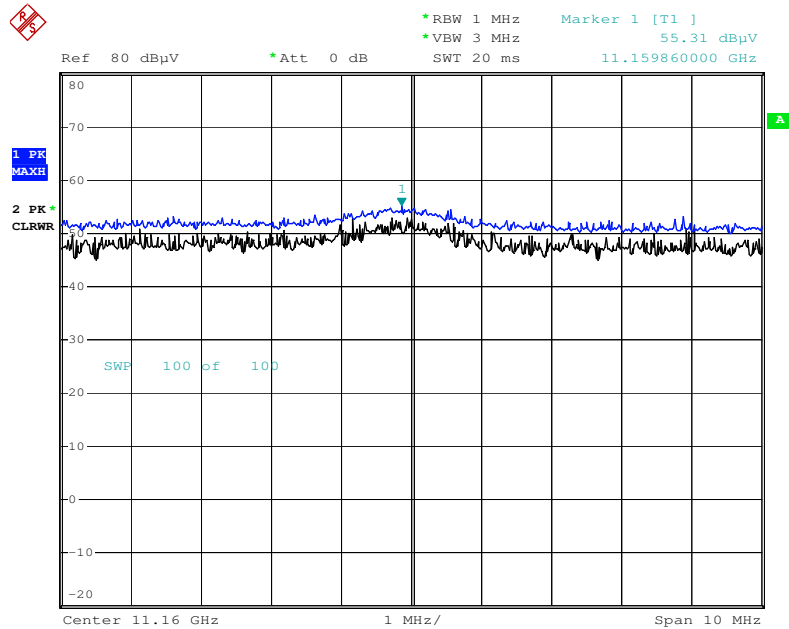
Date: 16.JAN.2017 15:37:39

Radiated Spurious Emissions plot – Average Reading(802.11n_HT20, Ch.116 2nd Harmonic, Z-V)



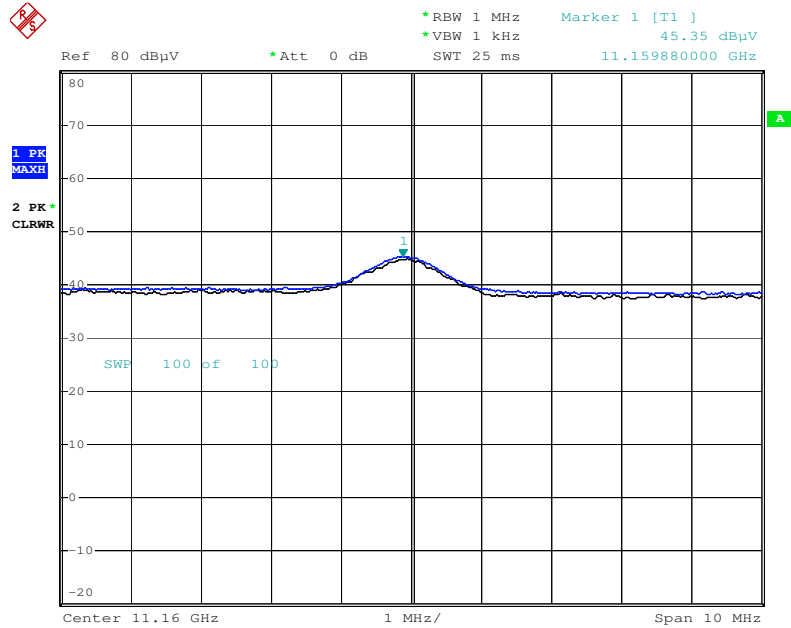
Date: 16.JAN.2017 15:39:24

Radiated Spurious Emissions plot – Peak Reading(802.11n_HT20, Ch.116 2nd Harmonic, Z-V)



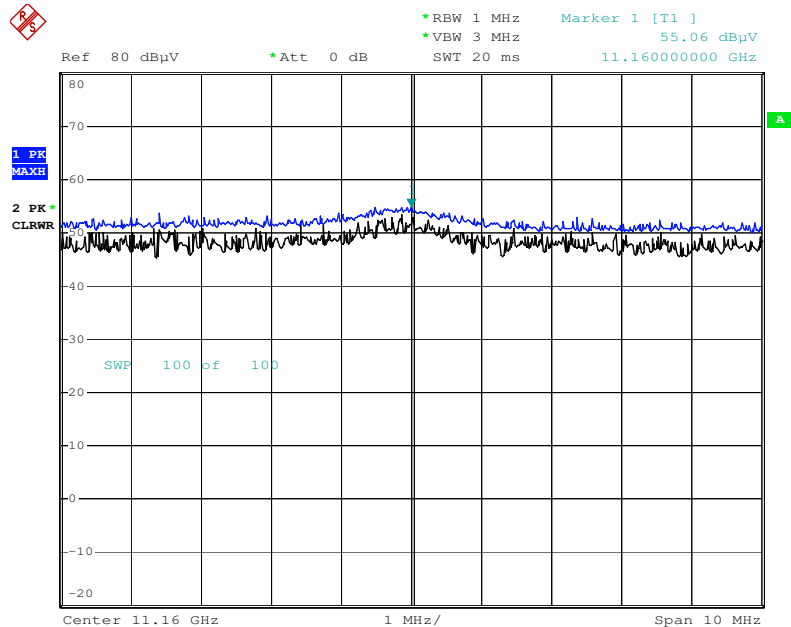
Date: 16.JAN.2017 15:38:54

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT20, Ch.116 2nd Harmonic, Z-V)



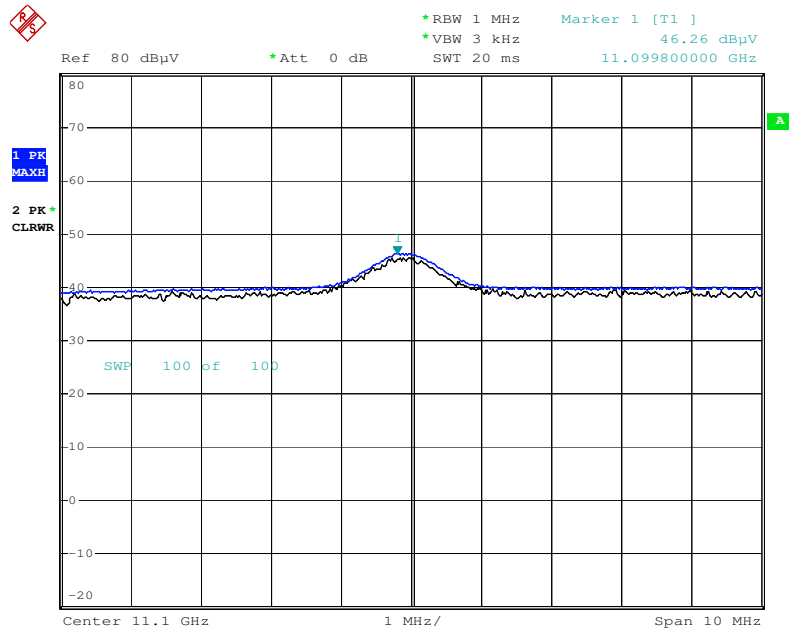
Date: 16.JAN.2017 15:40:22

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT20, Ch.116 2nd Harmonic, Z-V)



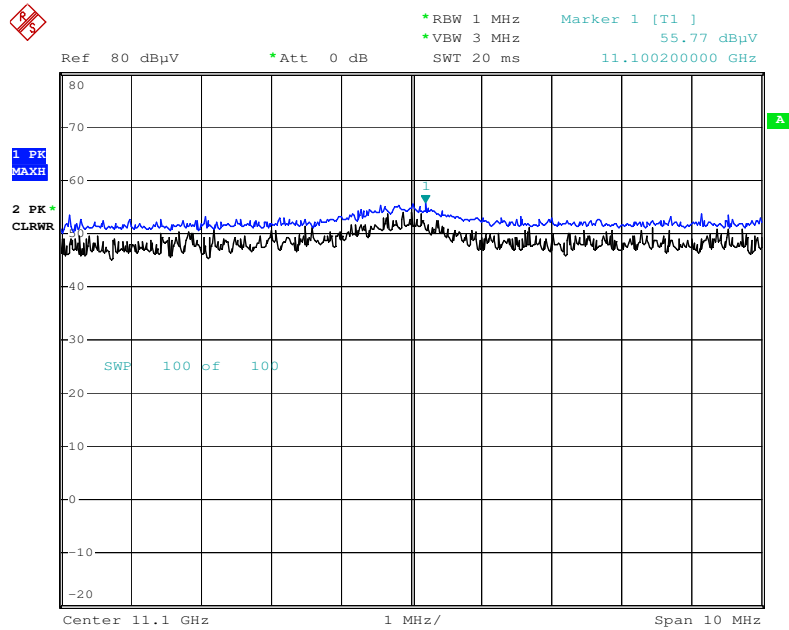
Date: 16.JAN.2017 15:40:57

Radiated Spurious Emissions plot – Average Reading (802.11n_HT40, Ch.110 2nd Harmonic, Z-V)



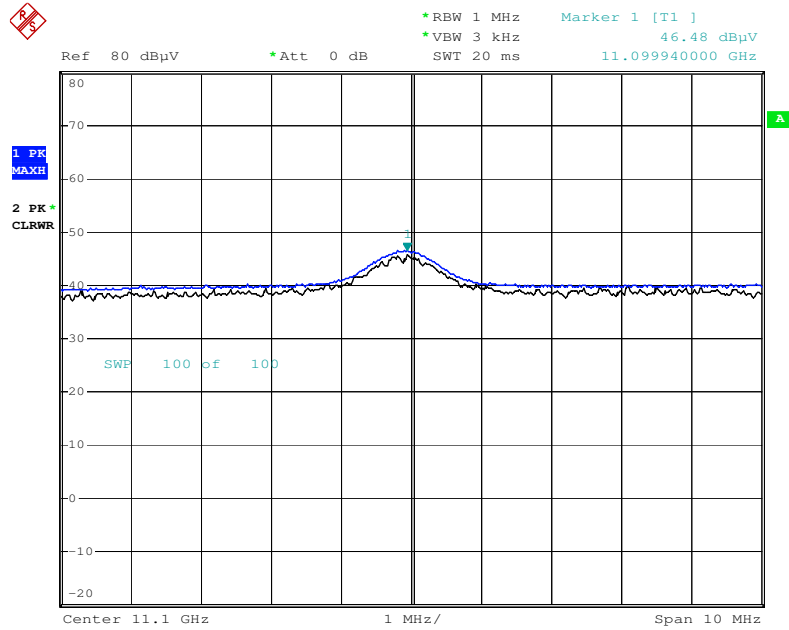
Date: 17.JAN.2017 10:49:49

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT40, Ch.110 2nd Harmonic, Z-V)



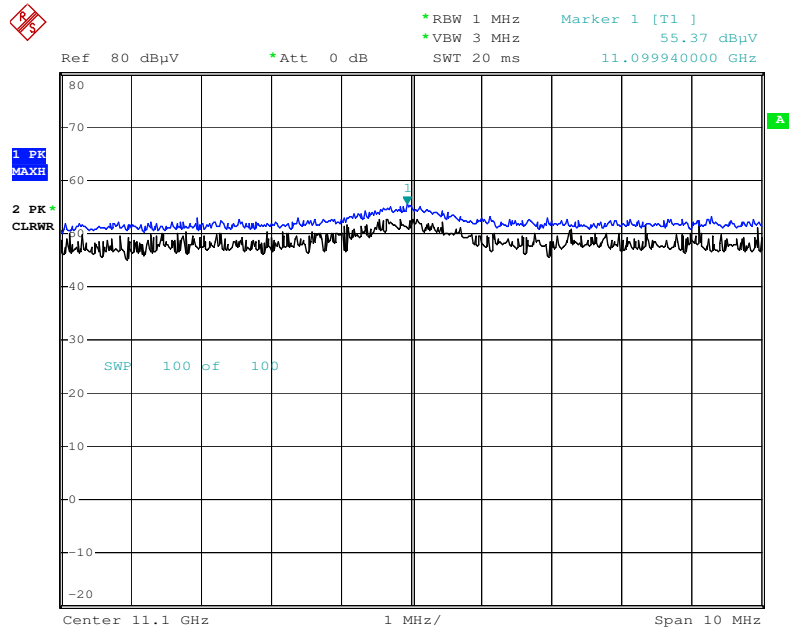
Date: 17.JAN.2017 10:50:36

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT40, Ch.110 2nd Harmonic, Z-V)



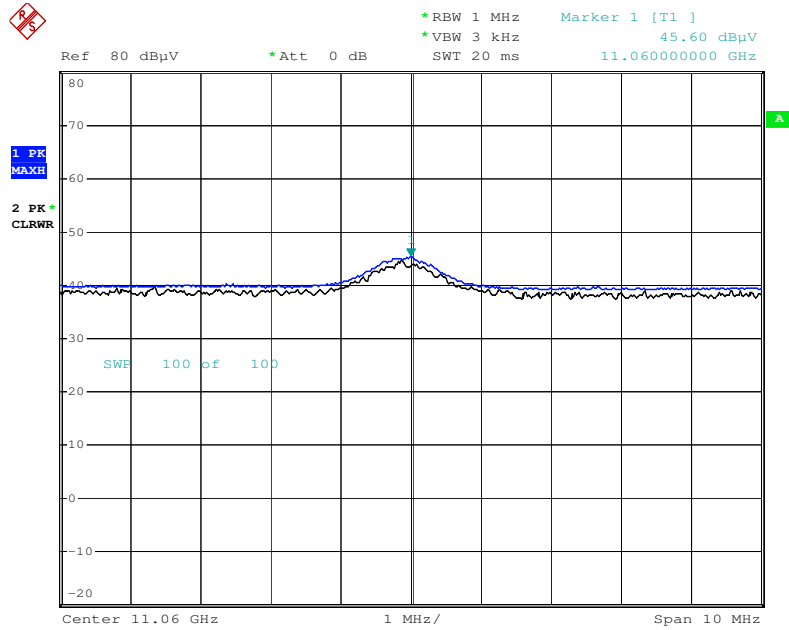
Date: 17.JAN.2017 10:53:01

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT40, Ch.110 2nd Harmonic, Z-V)



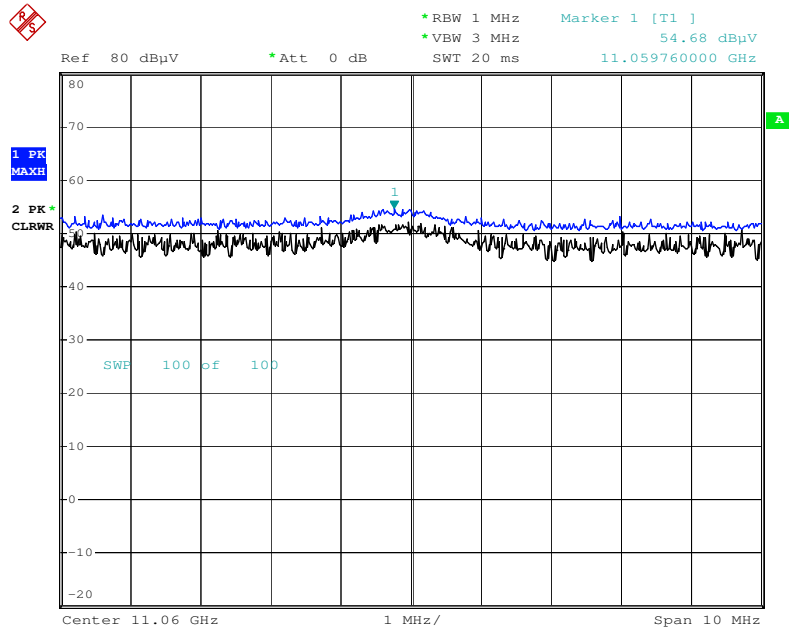
Date: 17.JAN.2017 10:51:39

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT80, Ch.106 2nd Harmonic, X-V)



Date: 2.FEB.2017 15:32:51

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT80, Ch.106 2nd Harmonic, X-V)



Date: 2.FEB.2017 15:33:59

Note : Only the worst case plots for Radiated Spurious Emissions.

9.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

[Only tablet]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.24	2.81	H	57.05	73.98	16.93	PK
5150	41.52	2.81	H	44.33	53.98	9.65	AV
5150	53.29	2.81	V	56.1	73.98	17.88	PK
5150	41.18	2.81	V	43.99	53.98	9.99	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.61	2.81	H	58.42	73.98	15.56	PK
5150	41.85	2.81	H	44.66	53.98	9.32	AV
5150	54.39	2.81	V	57.2	73.98	16.78	PK
5150	41.41	2.81	V	44.22	53.98	9.76	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.94	2.81	H	56.75	73.98	17.23	PK
5150	41.62	2.81	H	44.43	53.98	9.55	AV
5150	53.06	2.81	V	55.87	73.98	18.11	PK
5150	41.25	2.81	V	44.06	53.98	9.92	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.63	2.81	H	63.44	73.98	10.54	PK
5150	42.58	2.81	H	45.39	53.98	8.59	AV
5150	59.32	2.81	V	62.13	73.98	11.85	PK
5150	42.14	2.81	V	44.95	53.98	9.03	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	59.97	2.81	H	62.78	73.98	11.20	PK
5150	42.27	2.81	H	45.08	53.98	8.90	AV
5150	58.84	2.81	V	61.65	73.98	12.33	PK
5150	41.75	2.81	V	44.56	53.98	9.42	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.97	2.81	H	58.78	73.98	15.20	PK
5150	43.24	2.81	H	46.05	53.98	7.93	AV
5150	54.64	2.81	V	57.45	73.98	16.53	PK
5150	42.59	2.81	V	45.4	53.98	8.58	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.90	3.86	H	56.76	73.98	17.22	PK
5350	40.15	3.86	H	44.01	53.98	9.97	AV
5350	53.45	3.86	V	57.31	73.98	16.67	PK
5350	39.48	3.86	V	43.34	53.98	10.64	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.21	3.86	H	56.07	73.98	17.91	PK
5350	39.69	3.86	H	43.55	53.98	10.43	AV
5350	52.15	3.86	V	56.01	73.98	17.97	PK
5350	39.13	3.86	V	42.99	53.98	10.99	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.41	3.86	H	56.27	73.98	17.71	PK
5350	39.63	3.86	H	43.49	53.98	10.49	AV
5350	52.50	3.86	V	56.36	73.98	17.62	PK
5350	39.28	3.86	V	43.14	53.98	10.84	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	58.20	3.86	H	62.06	73.98	11.92	PK
5350	40.44	3.86	H	44.3	53.98	9.68	AV
5350	56.23	3.86	V	60.09	73.98	13.89	PK
5350	39.98	3.86	V	43.84	53.98	10.14	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	57.20	3.86	H	61.06	73.98	12.92	PK
5350	40.38	3.86	H	44.24	53.98	9.74	AV
5350	55.69	3.86	V	59.55	73.98	14.43	PK
5350	39.81	3.86	V	43.67	53.98	10.31	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.15	3.86	H	58.01	73.98	15.97	PK
5350	41.78	3.86	H	45.64	53.98	8.34	AV
5350	53.59	3.86	V	57.45	73.98	16.53	PK
5350	41.26	3.86	V	45.12	53.98	8.86	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.63	5.10	H	56.73	73.98	17.25	PK
5460	38.08	5.10	H	43.18	53.98	10.80	AV
*5470	52.87	5.18	H	58.05	68.20	10.15	PK
5460	50.50	5.10	V	55.6	73.98	18.38	PK
5460	37.95	5.10	V	43.05	53.98	10.93	AV
*5470	52.58	5.18	V	57.76	68.20	10.44	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	50.93	5.10	H	56.03	73.98	17.95	PK
5460	38.03	5.10	H	43.13	53.98	10.85	AV
*5470	53.05	5.18	H	58.23	68.20	9.97	PK
5460	50.68	5.10	V	55.78	73.98	18.20	PK
5460	37.75	5.10	V	42.85	53.98	11.13	AV
*5470	52.31	5.18	V	57.49	68.20	10.71	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.34	5.10	H	56.44	73.98	17.54	PK
5460	38.15	5.10	H	43.25	53.98	10.73	AV
*5470	52.79	5.18	H	57.97	68.20	10.23	PK
5460	50.87	5.10	V	55.97	73.98	18.01	PK
5460	37.69	5.10	V	42.79	53.98	11.19	AV
*5470	52.16	5.18	V	57.34	68.20	10.86	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.74	5.10	H	58.84	73.98	15.14	PK
5460	38.70	5.10	H	43.8	53.98	10.18	AV
*5470	57.94	5.18	H	63.12	68.20	5.08	PK
5460	52.28	5.10	V	57.38	73.98	16.60	PK
5460	38.47	5.10	V	43.57	53.98	10.41	AV
*5470	57.17	5.18	V	62.35	68.20	5.85	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.92	5.10	H	59.02	73.98	14.96	PK
5460	38.85	5.10	H	43.95	53.98	10.03	AV
*5470	57.92	5.18	H	63.1	68.20	5.10	PK
5460	53.14	5.10	V	58.24	73.98	15.74	PK
5460	38.22	5.10	V	43.32	53.98	10.66	AV
*5470	56.33	5.18	V	61.51	68.20	6.69	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.81	5.10	H	59.91	73.98	14.07	PK
5460	42.20	5.10	H	47.3	53.98	6.68	AV
*5470	55.06	5.18	H	60.24	68.20	7.96	PK
5460	52.00	5.10	V	57.1	73.98	16.88	PK
5460	41.88	5.10	V	46.98	53.98	7.00	AV
*5470	53.89	5.18	V	59.07	68.20	9.13	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.75	5.95	H	57.70	68.20	10.50	PK
5725	50.82	5.95	V	56.77	68.20	11.43	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer Rate:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.58	5.95	H	56.53	68.20	11.67	PK
5725	49.76	5.95	V	55.71	68.20	12.49	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer Rate:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.44	5.95	H	56.39	68.20	11.81	PK
5725	49.59	5.95	V	55.54	68.20	12.66	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer Rate:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	54.95	5.95	H	60.90	68.20	7.30	PK
5725	53.50	5.95	V	59.45	68.20	8.75	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer Rate:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	55.73	5.95	H	61.68	68.20	6.52	PK
5725	54.43	5.95	V	60.38	68.20	7.82	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT + Distance Factor
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. “*” is radiated band edge test frequency.(not restricted band emissions)

[Tablet+keyboard cover(kickstand)]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.92	2.81	H	57.73	73.98	16.25	PK
5150	42.07	2.81	H	44.88	53.98	9.10	AV
5150	53.13	2.81	V	55.94	73.98	18.04	PK
5150	40.42	2.81	V	43.23	53.98	10.75	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.53	2.81	H	58.34	73.98	15.64	PK
5150	42.10	2.81	H	44.91	53.98	9.07	AV
5150	53.82	2.81	V	56.63	73.98	17.35	PK
5150	40.56	2.81	V	43.37	53.98	10.61	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.85	2.81	H	57.66	73.98	16.32	PK
5150	42.10	2.81	H	44.91	53.98	9.07	AV
5150	53.17	2.81	V	55.98	73.98	18.00	PK
5150	40.49	2.81	V	43.3	53.98	10.68	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.27	2.81	H	63.08	73.98	10.90	PK
5150	42.67	2.81	H	45.48	53.98	8.50	AV
5150	58.58	2.81	V	61.39	73.98	12.59	PK
5150	41.03	2.81	V	43.84	53.98	10.14	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.13	2.81	H	64.94	73.98	9.04	PK
5150	42.89	2.81	H	45.7	53.98	8.28	AV
5150	59.94	2.81	V	62.75	73.98	11.23	PK
5150	41.22	2.81	V	44.03	53.98	9.95	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.92	2.81	H	58.73	73.98	15.25	PK
5150	43.83	2.81	H	46.64	53.98	7.34	AV
5150	53.86	2.81	V	56.67	73.98	17.31	PK
5150	42.33	2.81	V	45.14	53.98	8.84	AV

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.26	3.86	H	58.12	73.98	15.86	PK
5350	40.55	3.86	H	44.41	53.98	9.57	AV
5350	50.68	3.86	V	54.54	73.98	19.44	PK
5350	37.16	3.86	V	41.02	53.98	12.96	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.39	3.86	H	57.25	73.98	16.73	PK
5350	40.62	3.86	H	44.48	53.98	9.50	AV
5350	50.90	3.86	V	54.76	73.98	19.22	PK
5350	37.33	3.86	V	41.19	53.98	12.79	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.42	3.86	H	57.28	73.98	16.70	PK
5350	40.71	3.86	H	44.57	53.98	9.41	AV
5350	51.31	3.86	V	55.17	73.98	18.81	PK
5350	37.68	3.86	V	41.54	53.98	12.44	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.79	3.86	H	63.65	73.98	10.33	PK
5350	42.13	3.86	H	45.99	53.98	7.99	AV
5350	57.35	3.86	V	61.21	73.98	12.77	PK
5350	39.81	3.86	V	43.67	53.98	10.31	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.71	3.86	H	63.57	73.98	10.41	PK
5350	41.45	3.86	H	45.31	53.98	8.67	AV
5350	57.10	3.86	V	60.96	73.98	13.02	PK
5350	38.96	3.86	V	42.82	53.98	11.16	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	55.29	3.86	H	59.15	73.98	14.83	PK
5350	42.66	3.86	H	46.52	53.98	7.46	AV
5350	54.11	3.86	V	57.97	73.98	16.01	PK
5350	40.09	3.86	V	43.95	53.98	10.03	AV

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.38	5.10	H	56.48	73.98	17.50	PK
5460	38.24	5.10	H	43.34	53.98	10.64	AV
*5470	53.34	5.18	H	58.52	68.20	9.68	PK
5460	49.09	5.10	V	54.19	73.98	19.79	PK
5460	36.09	5.10	V	41.19	53.98	12.79	AV
*5470	50.57	5.18	V	55.75	68.20	12.45	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.98	5.10	H	57.08	73.98	16.90	PK
5460	38.04	5.10	H	43.14	53.98	10.84	AV
*5470	53.33	5.18	H	58.51	68.20	9.69	PK
5460	49.43	5.10	V	54.53	73.98	19.45	PK
5460	36.21	5.10	V	41.31	53.98	12.67	AV
*5470	50.75	5.18	V	55.93	68.20	12.27	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	51.28	5.10	H	56.38	73.98	17.60	PK
5460	37.79	5.10	H	42.89	53.98	11.09	AV
*5470	52.55	5.18	H	57.73	68.20	10.47	PK
5460	49.83	5.10	V	54.93	73.98	19.05	PK
5460	36.25	5.10	V	41.35	53.98	12.63	AV
*5470	50.84	5.18	V	56.02	68.20	12.18	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.42	5.10	H	59.52	73.98	14.46	PK
5460	38.66	5.10	H	43.76	53.98	10.22	AV
*5470	57.16	5.18	H	62.34	68.20	5.86	PK
5460	52.50	5.10	V	57.6	73.98	16.38	PK
5460	37.45	5.10	V	42.55	53.98	11.43	AV
*5470	55.08	5.18	V	60.26	68.20	7.94	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.38	5.10	H	59.48	73.98	14.50	PK
5460	38.51	5.10	H	43.61	53.98	10.37	AV
*5470	57.41	5.18	H	62.59	68.20	5.61	PK
5460	52.19	5.10	V	57.29	73.98	16.69	PK
5460	37.28	5.10	V	42.38	53.98	11.60	AV
*5470	55.36	5.18	V	60.54	68.20	7.66	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.95	5.10	H	60.05	73.98	13.93	PK
5460	41.92	5.10	H	47.02	53.98	6.96	AV
*5470	54.81	5.18	H	59.99	68.20	8.21	PK
5460	51.68	5.10	V	56.78	73.98	17.20	PK
5460	40.64	5.10	V	45.74	53.98	8.24	AV
*5470	52.14	5.18	V	57.32	68.20	10.88	PK

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.59	5.95	H	57.54	68.20	10.66	PK
5725	50.67	5.95	V	56.62	68.20	11.58	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer Rate:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.63	5.95	H	56.58	68.20	11.62	PK
5725	49.90	5.95	V	55.85	68.20	12.35	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer Rate:	0
Operating Frequency	5700 MHz
Channel No.	140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.28	5.95	H	56.23	68.20	11.97	PK
5725	49.49	5.95	V	55.44	68.20	12.76	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer Rate:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	55.06	5.95	H	61.01	68.20	7.19	PK
5725	53.71	5.95	V	59.66	68.20	8.54	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer Rate:	0
Operating Frequency	5670 MHz
Channel No.	134 Ch

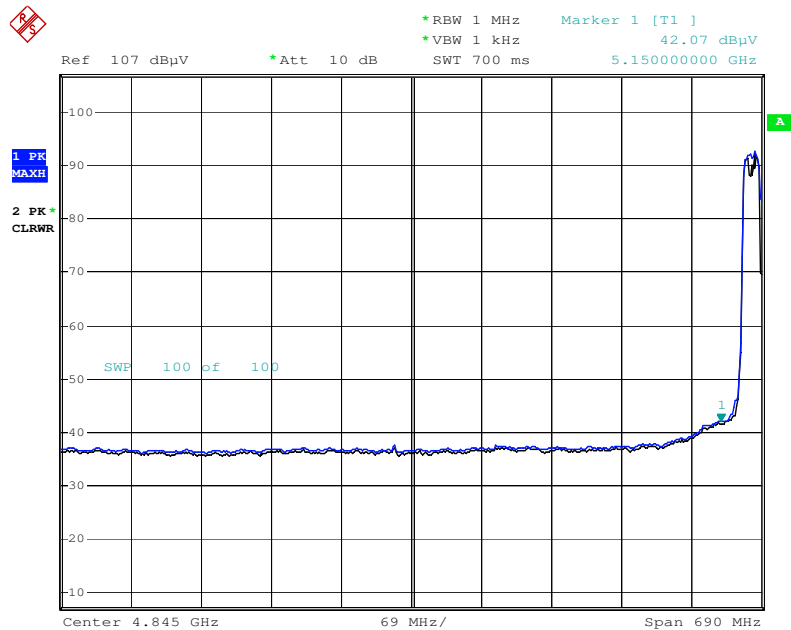
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	55.49	5.95	H	61.44	68.20	6.76	PK
5725	54.25	5.95	V	60.20	68.20	8.00	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT + Distance Factor
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. “*” is radiated band edge test frequency.(not restricted band emissions)

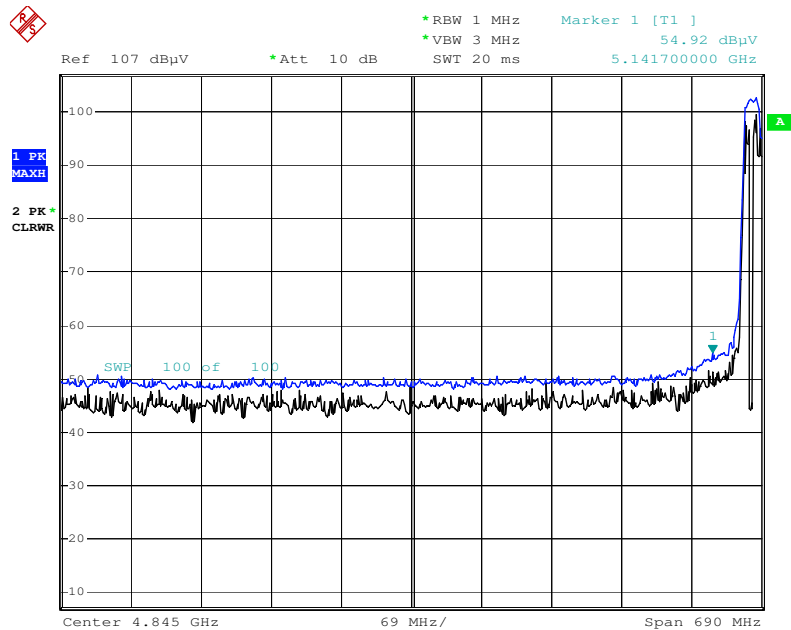
■ **RESULT PLOTS**(Tablet+keyboard cover(kickstand))

Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.36, X-H)



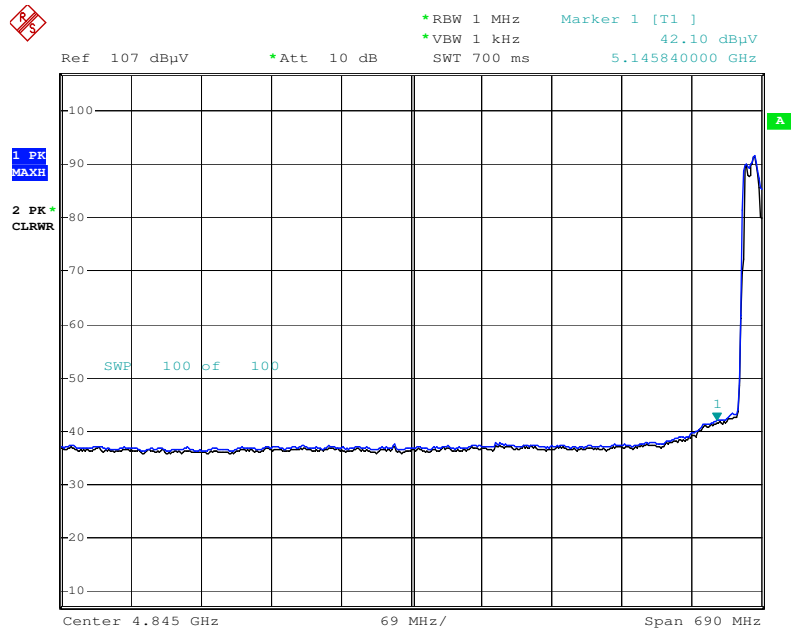
Date: 12.JAN.2017 14:33:13

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.36, X-H)



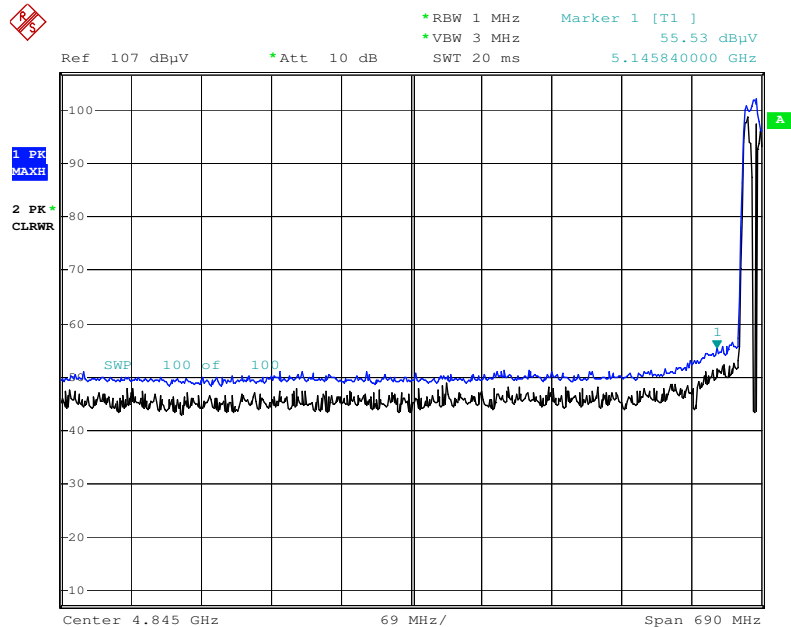
Date: 12.JAN.2017 14:36:12

Radiated Restricted Band Edges plot – Average Reading (802.11n_HT20, Ch.36, X-H)



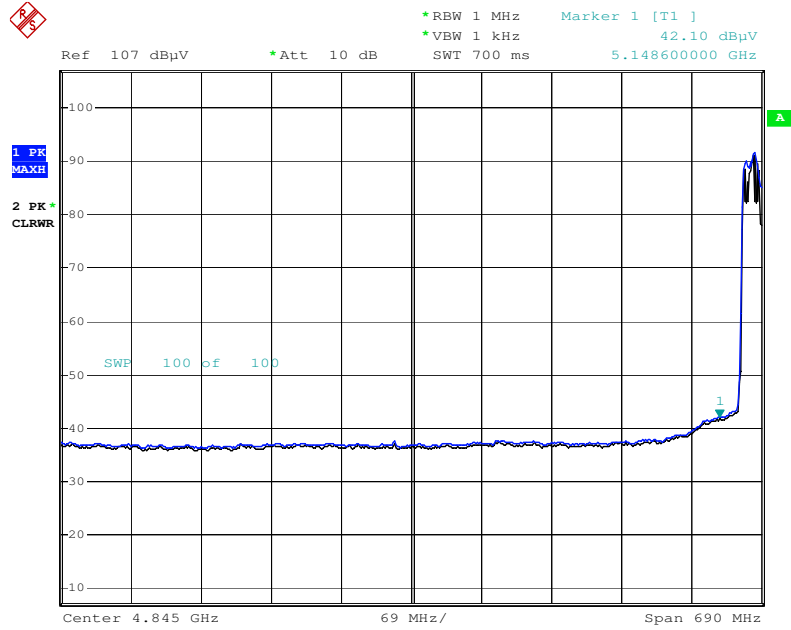
Date: 12.JAN.2017 21:47:15

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20, Ch.36, X-H)



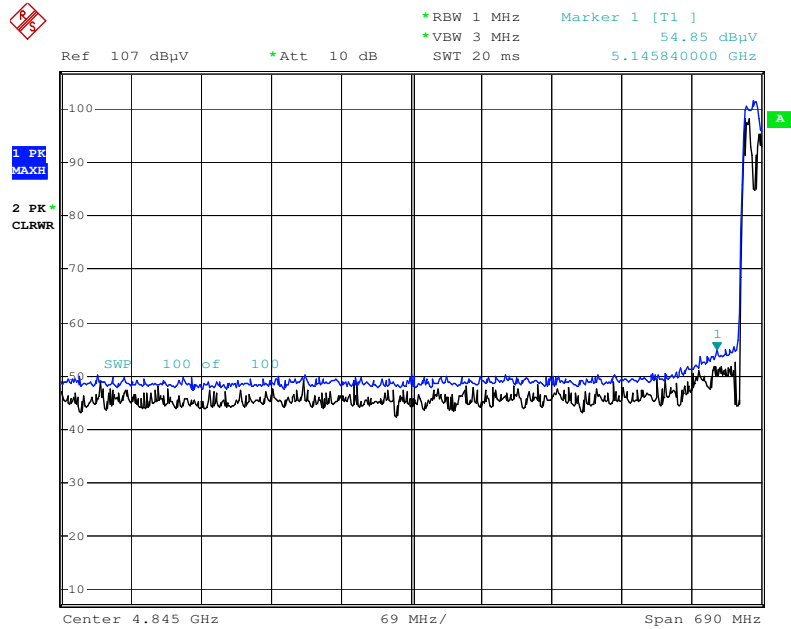
Date: 12.JAN.2017 21:52:22

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT20, Ch.36, X-H)



Date: 12.JAN.2017 21:55:52

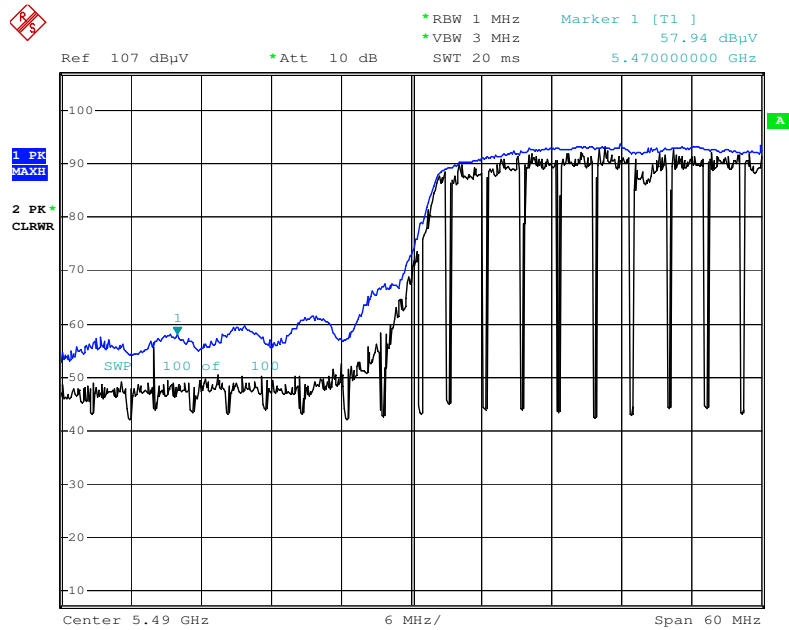
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20, Ch.36, X-H)



Date: 12.JAN.2017 21:53:37

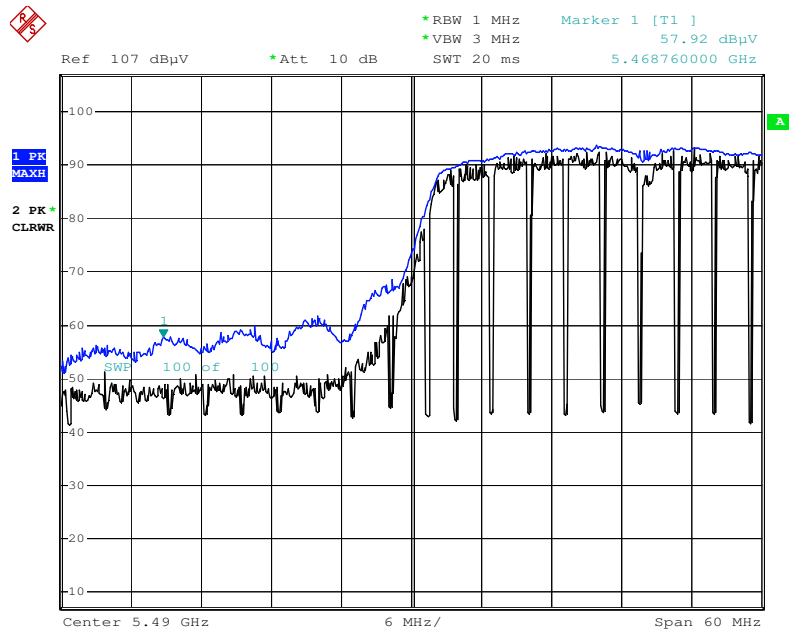
■ RESULT PLOTS(Only tablet)

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40, Ch.102, X-H)



Date: 11.JAN.2017 15:32:07

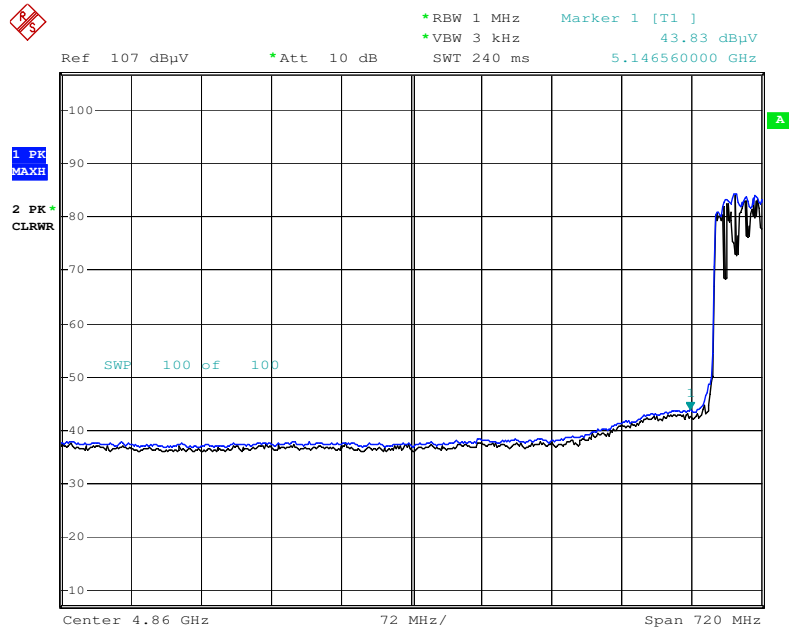
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40, Ch.102, X-H)



Date: 11.JAN.2017 15:37:14

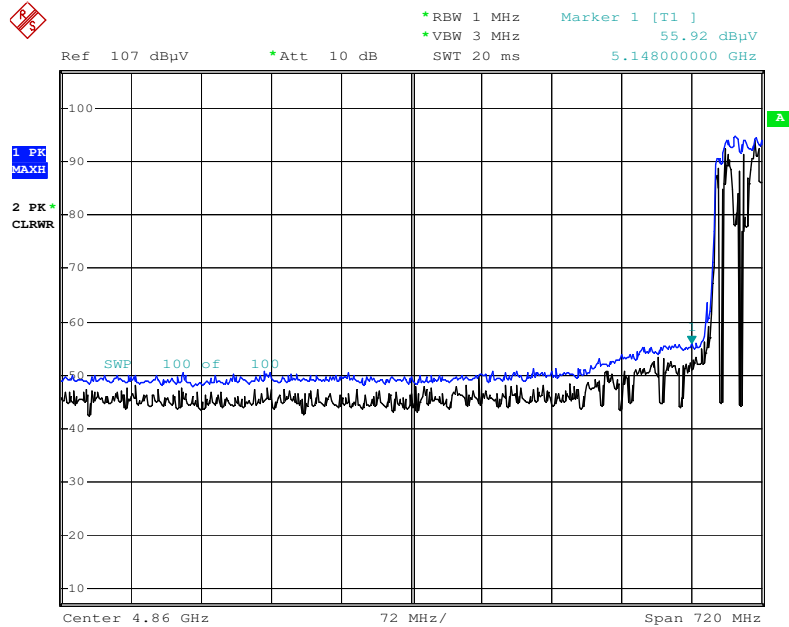
■ **RESULT PLOTS**(Tablet+keyboard cover(kickstand))

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT80, Ch.42, X-H)



Date: 12.JAN.2017 22:04:32

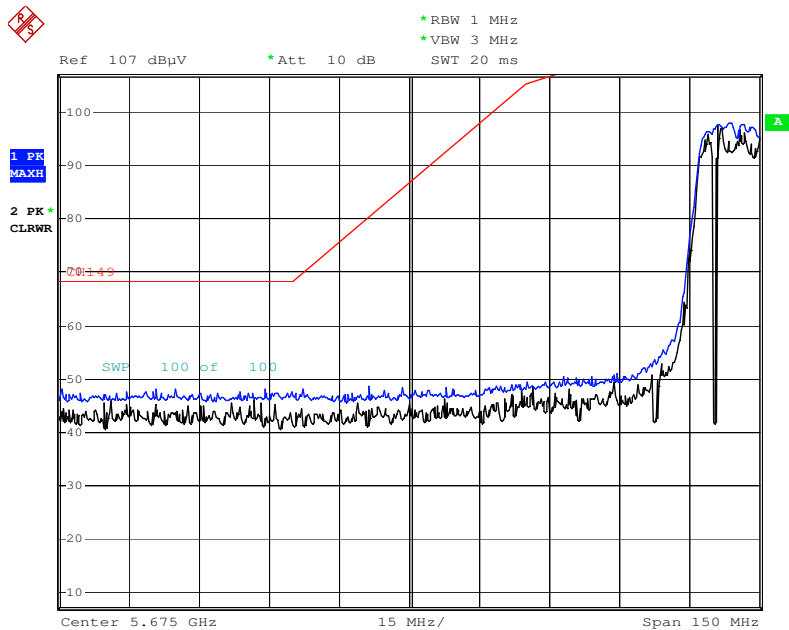
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80, Ch.42, X-H)



Date: 12.JAN.2017 22:06:29

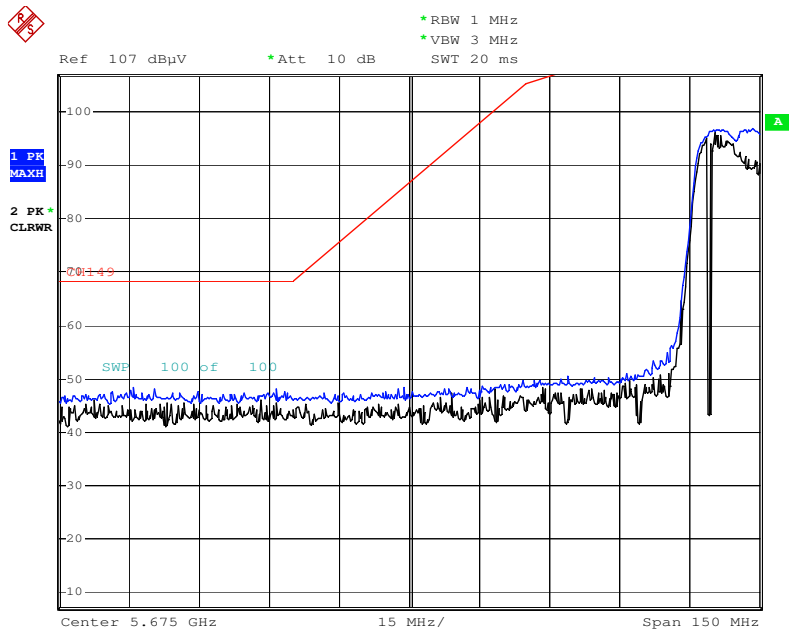
■ **RESULT PLOTS (UNII 3 – ch.149, Only tablet)**

Radiated Restricted Band Edges plot – Peak Reading (802.11a)



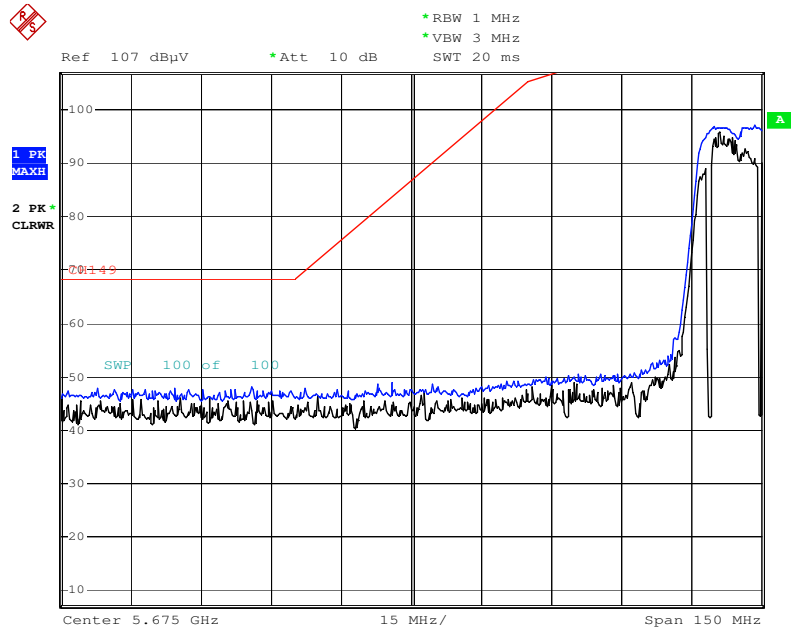
Date: 26.JAN.2017 11:08:34

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20)



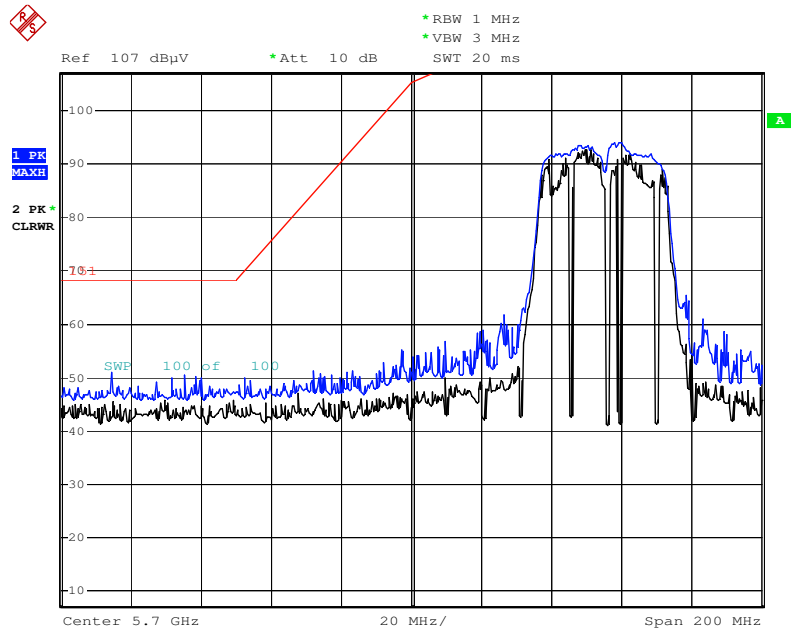
Date: 26.JAN.2017 11:44:57

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20)



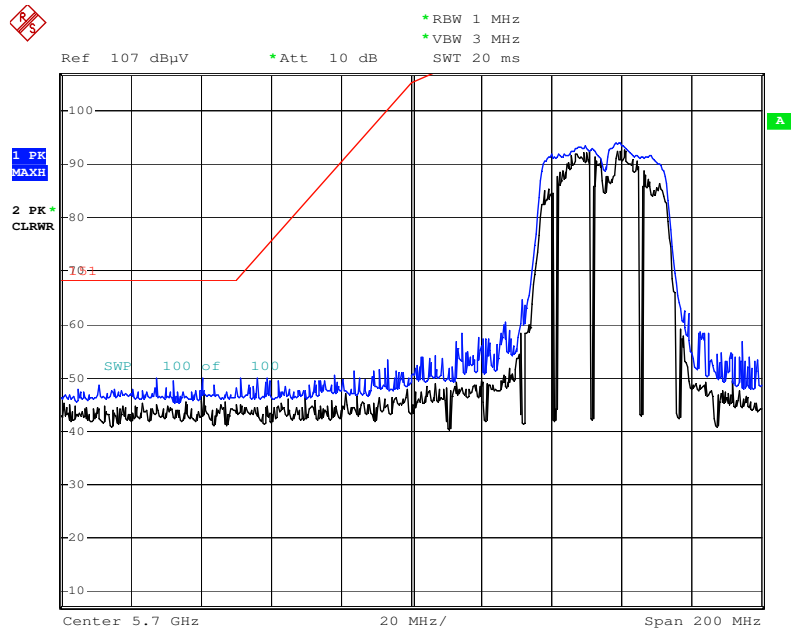
Date: 26.JAN.2017 11:45:50

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40)



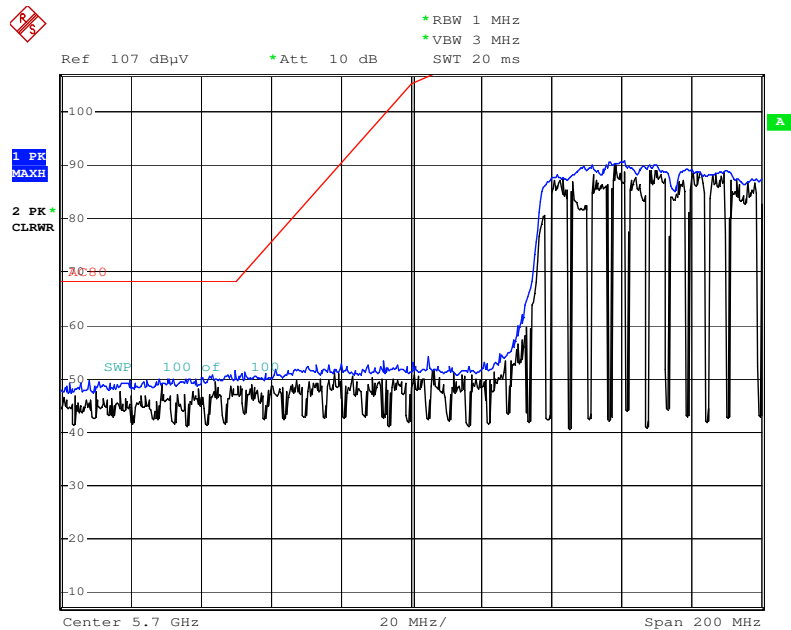
Date: 26.JAN.2017 11:47:02

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40)



Date: 26.JAN.2017 11:47:49

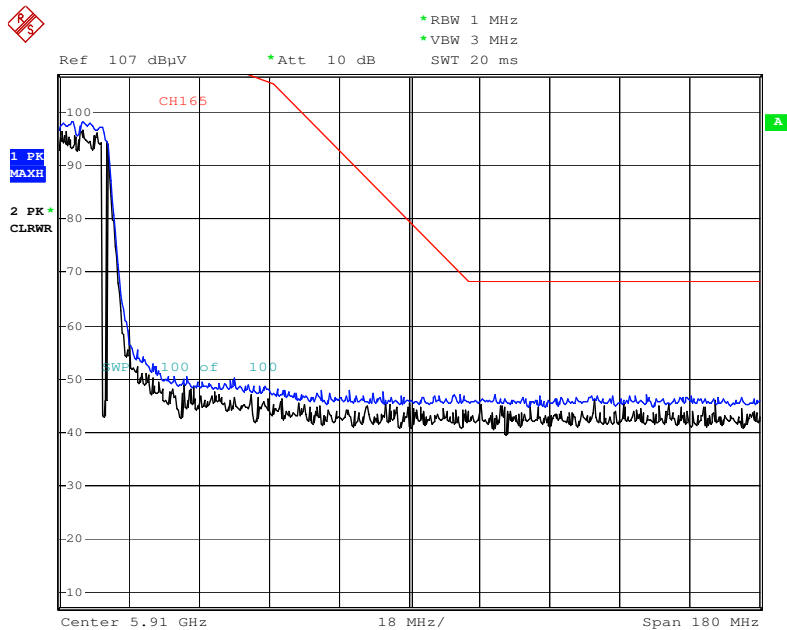
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80)



Date: 26.JAN.2017 11:48:51

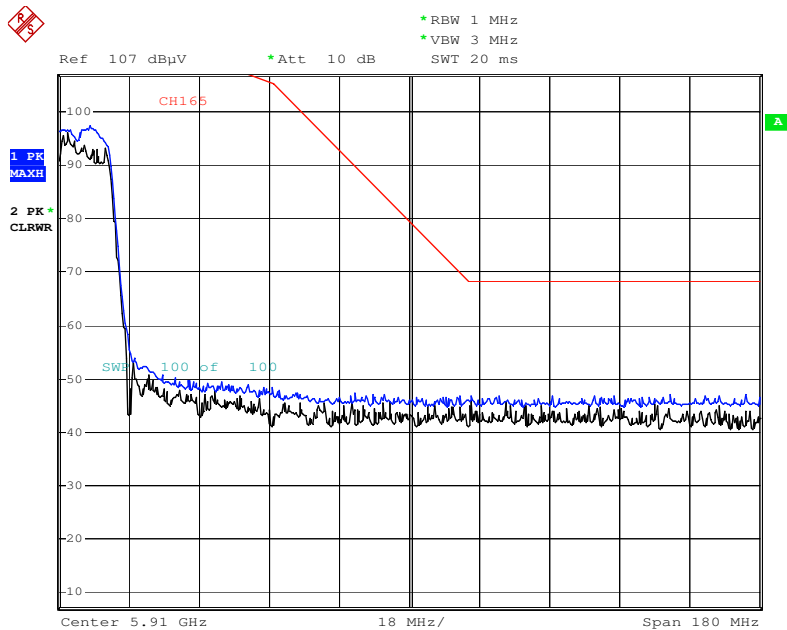
■ **RESULT PLOTS (UNII 3 – ch.165, Only tablet)**

Radiated Restricted Band Edges plot – Peak Reading (802.11a)



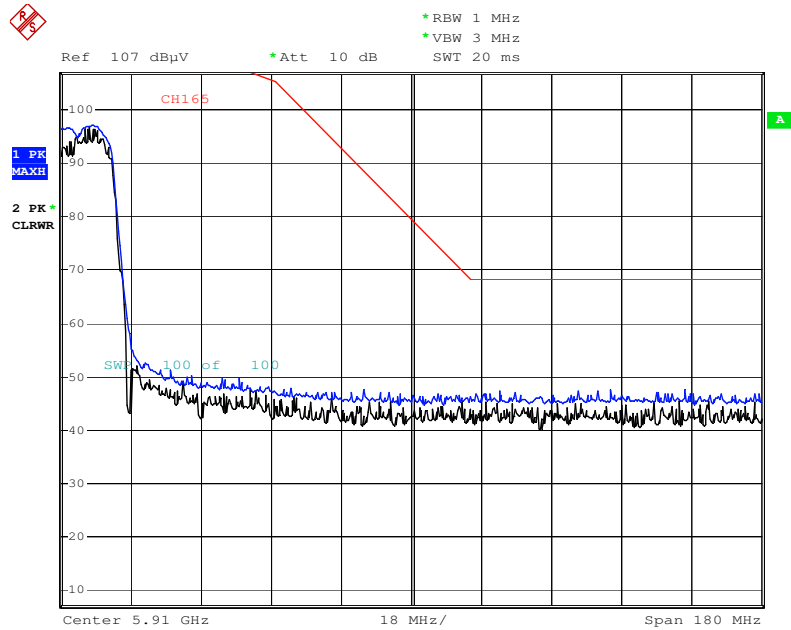
Date: 12.JAN.2017 23:31:34

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20)



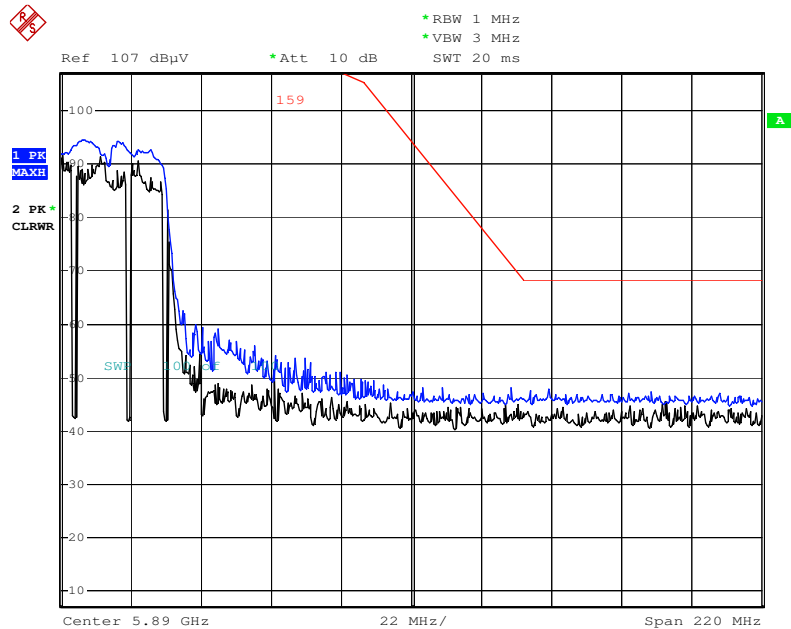
Date: 12.JAN.2017 23:33:04

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20)



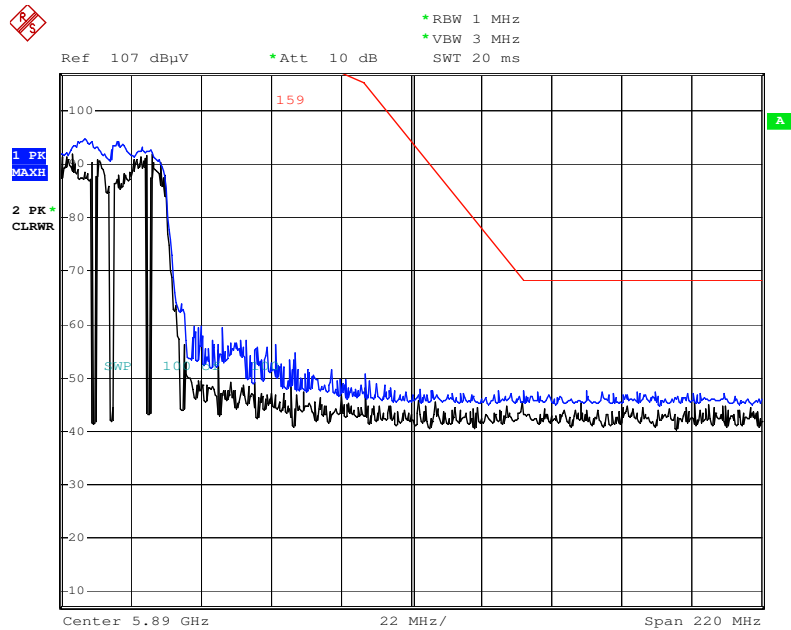
Date: 12.JAN.2017 23:33:52

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40)



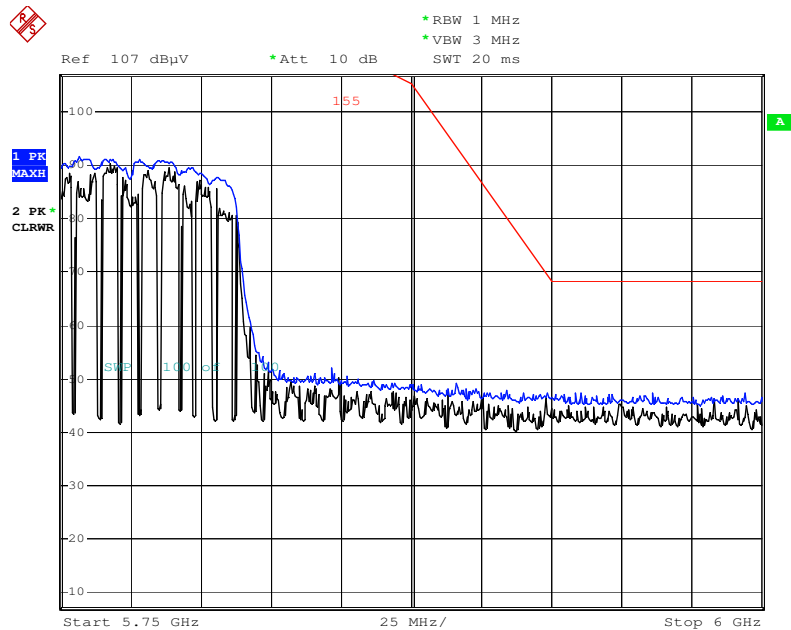
Date: 12.JAN.2017 23:35:34

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40)



Date: 12.JAN.2017 23:36:38

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80)



Date: 12.JAN.2017 23:37:36

9.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Reading Value + Correction Factor

■ **RESULT PLOTS (Only tablet)**
Conducted Emissions (Line 1)

EMI Auto Test(4)

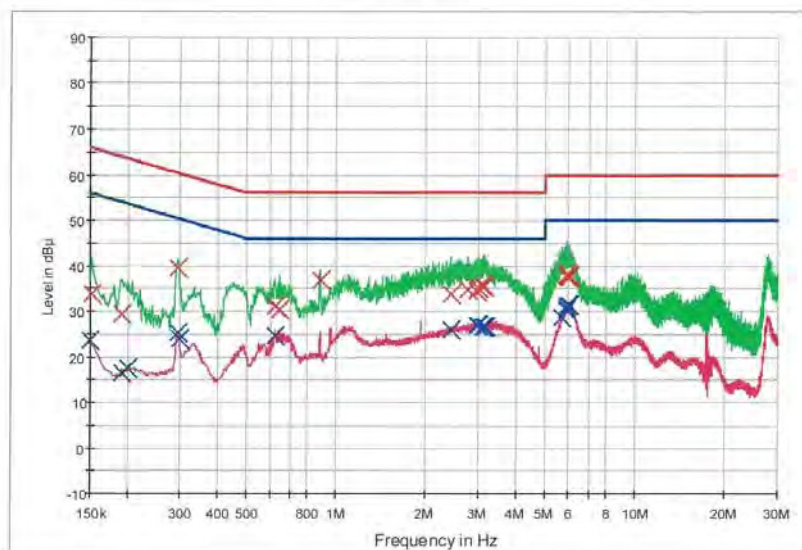
1 / 2

HCT TEST Report

Common Information

EUT: SM-W727V
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN_5G_L1

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	33.8	9.000	Off	L1	9.6	32.1	65.9
0.192000	29.3	9.000	Off	L1	9.6	34.6	63.9
0.294000	39.6	9.000	Off	L1	9.7	20.9	60.4
0.624000	30.9	9.000	Off	L1	9.7	25.1	56.0
0.646000	30.5	9.000	Off	L1	9.7	25.5	56.0
0.884000	36.9	9.000	Off	L1	9.7	19.1	56.0
2.428000	33.7	9.000	Off	L1	9.8	22.3	56.0
2.770000	34.7	9.000	Off	L1	9.8	21.3	56.0
2.966000	34.6	9.000	Off	L1	9.8	21.4	56.0
3.012000	35.2	9.000	Off	L1	9.8	20.8	56.0
3.114000	35.4	9.000	Off	L1	9.8	20.6	56.0
3.138000	35.6	9.000	Off	L1	9.8	20.4	56.0
5.928000	37.9	9.000	Off	L1	9.9	22.1	60.0
5.950000	37.6	9.000	Off	L1	9.9	22.4	60.0
5.974000	37.7	9.000	Off	L1	9.9	22.3	60.0
5.980000	38.1	9.000	Off	L1	9.9	21.9	60.0
6.026000	37.8	9.000	Off	L1	10.0	22.2	60.0
6.030000	37.5	9.000	Off	L1	10.0	22.5	60.0

Final Result 2

2017-01-19

오전 10:28:48

EMI Auto Test(4)

2 / 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.7	9.000	Off	L1	9.6	32.3	56.0
0.192000	16.5	9.000	Off	L1	9.6	37.4	53.9
0.202000	17.3	9.000	Off	L1	9.6	36.2	53.5
0.294000	25.4	9.000	Off	L1	9.7	25.1	50.4
0.298000	24.0	9.000	Off	L1	9.7	26.3	50.3
0.624000	24.7	9.000	Off	L1	9.7	21.3	46.0
2.428000	25.9	9.000	Off	L1	9.8	20.1	46.0
2.968000	27.0	9.000	Off	L1	9.8	19.0	46.0
3.012000	26.9	9.000	Off	L1	9.8	19.1	46.0
3.114000	26.7	9.000	Off	L1	9.8	19.3	46.0
3.136000	26.5	9.000	Off	L1	9.8	19.5	46.0
3.162000	26.6	9.000	Off	L1	9.8	19.4	46.0
5.710000	28.6	9.000	Off	L1	9.9	21.4	50.0
5.876000	30.2	9.000	Off	L1	9.9	19.8	50.0
5.880000	30.4	9.000	Off	L1	9.9	19.6	50.0
5.914000	31.2	9.000	Off	L1	9.9	18.8	50.0
5.992000	31.2	9.000	Off	L1	9.9	18.8	50.0
6.008000	31.4	9.000	Off	L1	10.0	18.6	50.0

2017-01-19

모전 10:28:48

Conducted Emissions (Line 2)

EMI Auto Test(4)

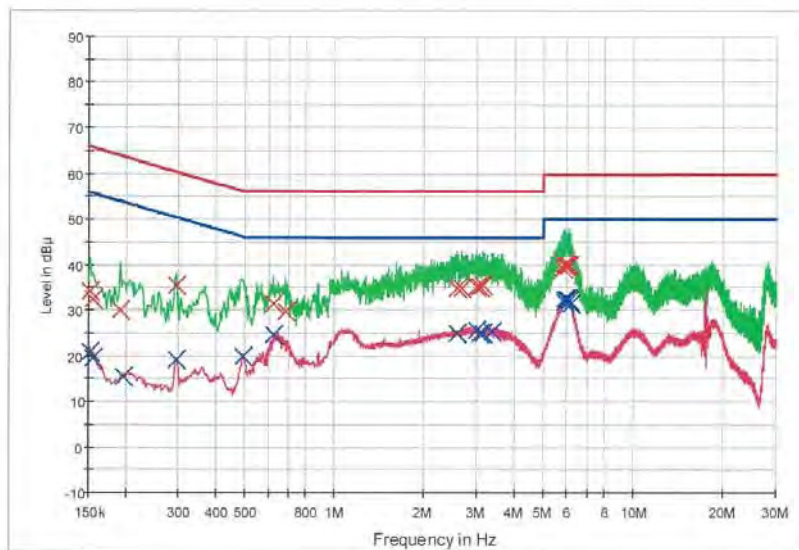
1 / 2

HCT TEST Report

Common Information

EUT: SM-W727V
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN_5G_N

FCC CLASS B



— FCC CLASS B_QP — Preview Result 2-AVG — FCC CLASS B_AV — Final Result 1-QPK — Preview Result 1-PK+ — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	34.0	9.000	Off	N	9.6	31.9	65.9
0.156000	32.4	9.000	Off	N	9.6	33.2	65.7
0.192000	29.9	9.000	Off	N	9.6	34.0	63.9
0.294000	35.4	9.000	Off	N	9.6	25.0	60.4
0.626000	31.5	9.000	Off	N	9.7	24.5	56.0
0.684000	29.8	9.000	Off	N	9.7	26.2	56.0
2.562000	34.7	9.000	Off	N	9.8	21.3	56.0
2.568000	34.6	9.000	Off	N	9.8	21.4	56.0
2.652000	34.8	9.000	Off	N	9.8	21.2	56.0
3.010000	35.1	9.000	Off	N	9.8	20.9	56.0
3.066000	35.2	9.000	Off	N	9.8	20.8	56.0
3.134000	35.3	9.000	Off	N	9.8	20.7	56.0
5.806000	39.1	9.000	Off	N	9.9	20.9	60.0
5.926000	40.2	9.000	Off	N	9.9	19.8	60.0
5.932000	39.7	9.000	Off	N	9.9	20.3	60.0
5.972000	39.7	9.000	Off	N	9.9	20.3	60.0
6.022000	40.0	9.000	Off	N	9.9	20.0	60.0
6.084000	39.8	9.000	Off	N	9.9	20.2	60.0

Final Result 2

2017-01-19

오전 10:10:56

EMI Auto Test(4)

2 / 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	20.9	9.000	Off	N	9.6	35.0	55.9
0.156000	19.6	9.000	Off	N	9.6	36.1	55.7
0.196000	15.6	9.000	Off	N	9.6	38.2	53.8
0.294000	19.0	9.000	Off	N	9.6	31.4	50.4
0.492000	19.7	9.000	Off	N	9.7	26.4	46.1
0.626000	24.7	9.000	Off	N	9.7	21.3	46.0
2.568000	25.0	9.000	Off	N	9.8	21.0	46.0
3.010000	25.5	9.000	Off	N	9.8	20.5	46.0
3.066000	25.0	9.000	Off	N	9.8	21.0	46.0
3.074000	25.0	9.000	Off	N	9.8	21.0	46.0
3.134000	24.9	9.000	Off	N	9.8	21.1	46.0
3.386000	25.4	9.000	Off	N	9.8	20.6	46.0
5.878000	31.8	9.000	Off	N	9.9	18.2	50.0
5.888000	32.3	9.000	Off	N	9.9	17.7	50.0
6.004000	32.4	9.000	Off	N	9.9	17.6	50.0
6.026000	32.3	9.000	Off	N	9.9	17.7	50.0
6.082000	32.2	9.000	Off	N	9.9	17.8	50.0
6.168000	31.3	9.000	Off	N	9.9	18.7	50.0

2017-01-19

오전 10:10:56

■ **RESULT PLOTS (Tablet+keyboard cover(kickstand))**
Conducted Emissions (Line 1)

EMI Auto Test(4)

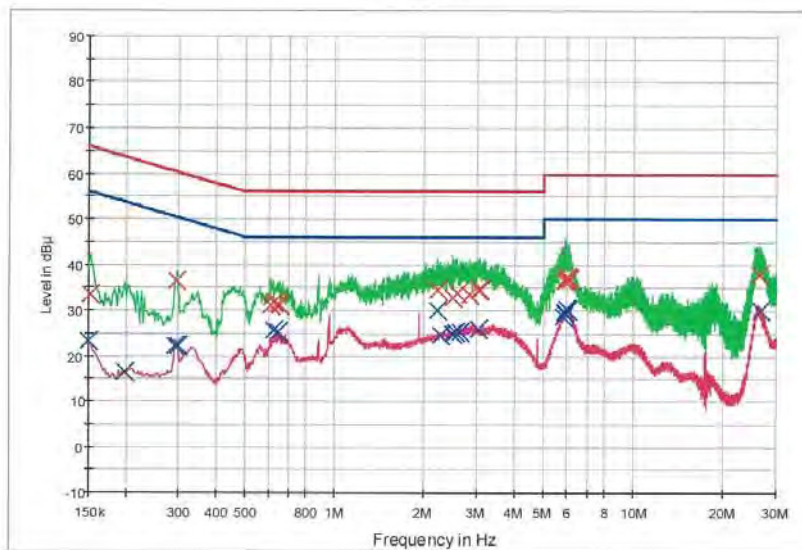
1 / 2

HCT TEST Report

Common Information

EUT: SM-W727V
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN_5G_L1 (KEYBOARD)

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-QPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	33.5	9.000	Off	L1	9.6	32.4	65.9
0.296000	36.4	9.000	Off	L1	9.7	23.9	60.4
0.614000	30.9	9.000	Off	L1	9.7	25.1	56.0
0.622000	31.7	9.000	Off	L1	9.7	24.3	56.0
0.650000	31.4	9.000	Off	L1	9.7	24.6	56.0
0.658000	31.0	9.000	Off	L1	9.7	25.0	56.0
2.208000	34.5	9.000	Off	L1	9.8	21.5	56.0
2.486000	32.7	9.000	Off	L1	9.8	23.3	56.0
2.560000	33.7	9.000	Off	L1	9.8	22.3	56.0
2.832000	33.4	9.000	Off	L1	9.8	22.6	56.0
3.020000	34.4	9.000	Off	L1	9.8	21.6	56.0
3.060000	34.4	9.000	Off	L1	9.8	21.6	56.0
5.898000	36.6	9.000	Off	L1	9.9	23.4	60.0
5.984000	37.3	9.000	Off	L1	9.9	22.7	60.0
6.006000	36.8	9.000	Off	L1	10.0	23.2	60.0
6.014000	37.1	9.000	Off	L1	10.0	22.9	60.0
6.084000	36.9	9.000	Off	L1	10.0	23.1	60.0
26.298000	37.8	9.000	Off	L1	10.4	22.2	60.0

Final Result 2

2017-01-19

오전 10:39:46

EMI Auto Test(4)

2 / 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.2	9.000	Off	L1	9.6	32.8	56.0
0.198000	16.6	9.000	Off	L1	9.6	37.1	53.7
0.292000	22.2	9.000	Off	L1	9.7	28.2	50.5
0.298000	22.4	9.000	Off	L1	9.7	27.9	50.3
0.624000	25.5	9.000	Off	L1	9.7	20.5	46.0
0.650000	25.2	9.000	Off	L1	9.7	20.8	46.0
2.208000	30.0	9.000	Off	L1	9.8	16.0	46.0
2.270000	24.6	9.000	Off	L1	9.8	21.4	46.0
2.486000	25.0	9.000	Off	L1	9.8	21.0	46.0
2.532000	25.1	9.000	Off	L1	9.8	20.9	46.0
2.626000	25.3	9.000	Off	L1	9.8	20.7	46.0
3.020000	25.8	9.000	Off	L1	9.8	20.2	46.0
5.804000	28.8	9.000	Off	L1	9.9	21.2	50.0
5.898000	29.3	9.000	Off	L1	9.9	20.7	50.0
5.918000	29.5	9.000	Off	L1	9.9	20.5	50.0
5.984000	30.3	9.000	Off	L1	9.9	19.7	50.0
6.014000	30.0	9.000	Off	L1	10.0	20.0	50.0
26.536000	30.1	9.000	Off	L1	10.4	19.9	50.0

2017-01-19

오전 10:39:46

Conducted Emissions (Line 2)

EMI Auto Test(4)

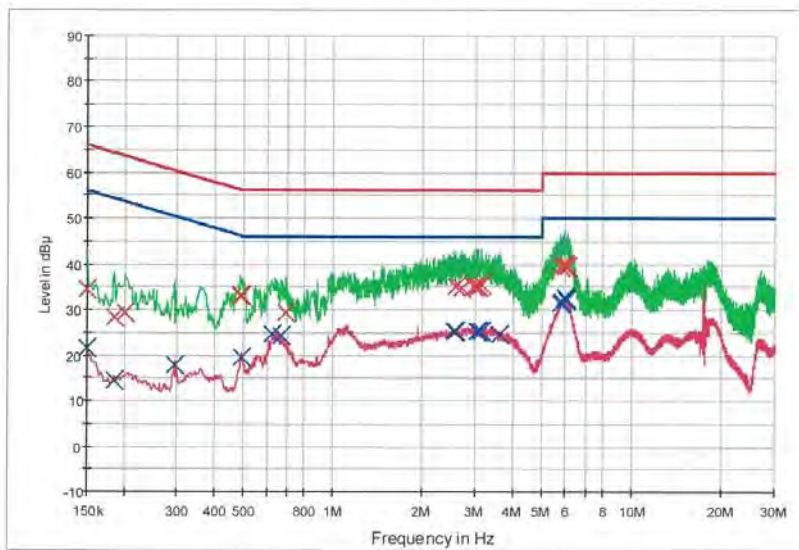
1 / 2

HCT TEST Report

Common Information

EUT: SM-W727V
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN_5G_N (KEYBOARD)

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
— Preview Result 2-AVG — Final Result 1-OPK — Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	34.5	9.000	Off	N	9.6	31.5	66.0
0.186000	28.2	9.000	Off	N	9.6	36.0	64.2
0.202000	29.4	9.000	Off	N	9.6	34.1	63.5
0.488000	33.1	9.000	Off	N	9.7	23.1	56.2
0.492000	33.0	9.000	Off	N	9.7	23.1	56.1
0.698000	29.4	9.000	Off	N	9.7	26.6	56.0
2.574000	35.1	9.000	Off	N	9.8	20.9	56.0
2.700000	34.7	9.000	Off	N	9.8	21.3	56.0
2.954000	35.0	9.000	Off	N	9.8	21.0	56.0
3.018000	35.2	9.000	Off	N	9.8	20.8	56.0
3.054000	35.2	9.000	Off	N	9.8	20.8	56.0
3.138000	35.6	9.000	Off	N	9.8	20.4	56.0
5.798000	39.3	9.000	Off	N	9.9	20.7	60.0
5.960000	39.7	9.000	Off	N	9.9	20.3	60.0
5.964000	39.7	9.000	Off	N	9.9	20.3	60.0
5.970000	39.5	9.000	Off	N	9.9	20.5	60.0
5.984000	39.8	9.000	Off	N	9.9	20.2	60.0
6.086000	39.5	9.000	Off	N	9.9	20.5	60.0

Final Result 2

2017-01-19

오전 10:49:46

EMI Auto Test(4)

2 / 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	21.5	9.000	Off	N	9.6	34.5	56.0
0.186000	14.3	9.000	Off	N	9.6	39.9	54.2
0.294000	17.7	9.000	Off	N	9.6	32.7	50.4
0.492000	19.3	9.000	Off	N	9.7	26.8	46.1
0.626000	24.5	9.000	Off	N	9.7	21.5	46.0
0.674000	24.1	9.000	Off	N	9.7	21.9	46.0
2.534000	25.1	9.000	Off	N	9.8	20.9	46.0
2.574000	25.1	9.000	Off	N	9.8	20.9	46.0
3.030000	25.4	9.000	Off	N	9.8	20.6	46.0
3.066000	25.2	9.000	Off	N	9.8	20.8	46.0
3.138000	25.1	9.000	Off	N	9.8	20.9	46.0
3.624000	24.5	9.000	Off	N	9.8	21.5	46.0
5.798000	31.4	9.000	Off	N	9.9	18.6	50.0
5.848000	31.7	9.000	Off	N	9.9	18.3	50.0
5.960000	32.6	9.000	Off	N	9.9	17.4	50.0
5.984000	32.6	9.000	Off	N	9.9	17.4	50.0
6.016000	32.2	9.000	Off	N	9.9	17.8	50.0
6.034000	32.3	9.000	Off	N	9.9	17.7	50.0

2017-01-19

오전 10:49:46

10. LIST OF TEST EQUIPMENT

10.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/23/2016	Annual	100073
Rohde & Schwarz	ESCI / Test Receiver	12/23/2016	Annual	100584
Agilent	N9020A / Signal Analyzer	06/24/2016	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/30/2016	Annual	MY49431210
Agilent	N1911A / Power Meter	03/11/2016	Annual	MY45100523
Agilent	N1921A / Power Sensor	03/11/2016	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/23/2016	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/14/2016	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	03/09/2016	Annual	KR75303962
Agilent	8493C / Attenuator(10 dB)	07/15/2016	Annual	07560

10.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Audix	AM4000 / Antenna Position Tower	N/A	N/A	N/A
Audix	Turn Table	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Rohde & Schwarz	Loop Antenna	02/23/2016	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/15/2015	Biennial	255
Schwarzbeck	BBHA 9120D / Horn Antenna	05/07/2015	Biennial	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	09/03/2015	Biennial	BBHA9170541
Rohde & Schwarz	FSP / Spectrum Analyzer	09/10/2016	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/23/2016	Annual	101068-SZ
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/24/2016	Annual	8
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/13/2016	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	07/06/2016	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/24/2017	Annual	2
Agilent	8493C-10 / Attenuator(10 dB)	08/11/2016	Annual	76649
CERNEX	CBLU1183540 / Power Amplifier	07/15/2016	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/15/2016	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	07/11/2016	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	07/11/2016	Annual	25956