

■802.11a

■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	0.933	0.124	1.057	11	Pass
5200	40		1.392	0.124	1.516		Pass
5240	48		1.323	0.124	1.447		Pass
5260	52		1.309	0.043	1.352	11	Pass
5300	60		1.447	0.043	1.490		Pass
5320	64		1.499	0.124	1.623		Pass
5500	100		1.274	0.043	1.317	11	Pass
5580	116		1.046	0.043	1.089		Pass
5700	140		1.029	0.063	1.092		Pass
5745	149		-1.715	0.043	-1.672	30	Pass
5785	157		-1.963	0.043	-1.920		Pass
5825	165		-1.713	0.048	-1.665		Pass

☐ TEST Plot for 802.11a

802.11a UNII 1 BAND PSD CH 40



802.11a UNII 2A BAND PSD CH 64



802.11a UNII 2C BAND PSD CH 140



802.11a UNII 3 BAND PSD CH 165



■802.11n\_HT20

■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	-2.611	0.158	-2.453	11	Pass
5200	40		-2.542	0.041	-2.501		Pass
5240	48		-2.305	0.120	-2.185		Pass
5260	52		-2.529	0.041	-2.488	11	Pass
5300	60		-2.301	0.041	-2.260		Pass
5320	64		-2.422	0.120	-2.302		Pass
5500	100		-2.595	0.041	-2.554	11	Pass
5580	116		-2.597	0.081	-2.516		Pass
5700	140		-2.787	0.041	-2.746		Pass
5745	149		-5.918	0.041	-5.877	30	Pass
5785	157		-5.622	0.081	-5.541		Pass
5825	165		-5.425	0.081	-5.344		Pass

TEST Plot for 802.11n\_HT20

802.11n\_HT20 UNII 1 BAND PSD CH 48



802.11n\_HT20 UNII 2A BAND PSD CH60



802.11n\_HT20 BW UNII 2C BAND PSD CH 116



802.11n\_HT20 UNII 3 BAND PSD CH 165



■802.11ac\_VHT20 BW

■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	-2.762	0.217	-2.545	11	Pass
5200	40		-2.551	0.152	-2.399		Pass
5240	48		-2.312	0.152	-2.160		Pass
5260	52		-2.487	0.152	-2.335	11	Pass
5300	60		-2.517	0.217	-2.300		Pass
5320	64		-2.363	0.152	-2.211		Pass
5500	100		-2.671	0.217	-2.454	11	Pass
5580	116		-2.779	0.152	-2.627		Pass
5700	140		-3.037	0.152	-2.885		Pass
5745	149		-5.822	0.217	-5.605	30	Pass
5785	157		-5.825	0.152	-5.673		Pass
5825	165		-5.789	0.217	-5.572		Pass

TEST Plot for 802.11ac\_VHT20

802.11ac\_VHT20 UNII 1 BAND PSD CH 48



802.11ac\_VHT20UNII 2A BAND PSD CH 64



802.11ac\_VHT20UNII 2C BAND PSD CH 100



802.11ac\_VHT20UNII 3 BAND PSD CH 165



■802.11n\_HT40

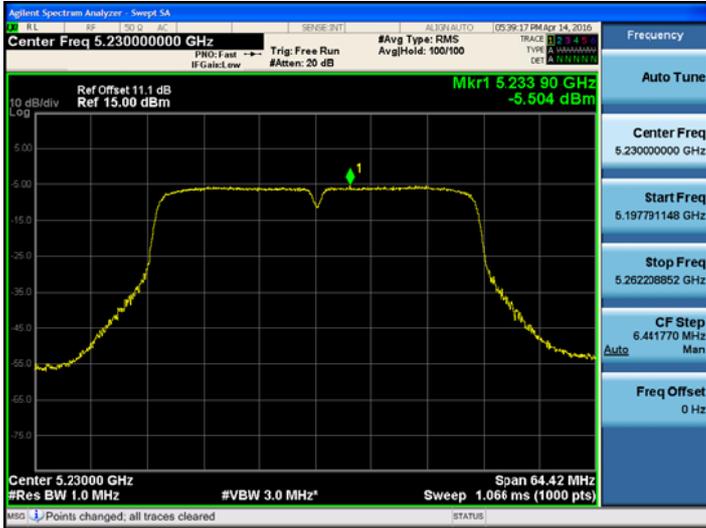
■TEST RESULTS

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	-5.745	0.135	-5.610	11	Pass
5230	46		-5.504	0.069	-5.435		Pass
5270	54		-5.454	0.135	-5.319	11	Pass
5310	62		-5.653	0.135	-5.518		Pass
5510	102		-5.651	0.135	-5.516	11	Pass
5500	110		-5.699	0.135	-5.564		Pass
5670	134		-6.085	0.197	-5.888		Pass
5755	151		-8.974	0.135	-8.839	30	Pass
5795	159		-8.950	0.197	-8.753		Pass

TEST Plot for 802.11n\_HT40

802.11n\_HT40 UNII 1 BAND PSD CH 46



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 159



■802.11ac\_VHT40

■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	-5.649	0.282	-5.367	11	Pass
5230	46		-5.289	0.969	-4.320		Pass
5270	54		-5.190	0.969	-4.221	11	Pass
5310	62		-5.258	0.432	-4.826		Pass
5510	102		-5.653	0.432	-5.221	11	Pass
5500	110		-5.586	0.969	-4.617		Pass
5670	134		-5.047	0.432	-4.615		Pass
5755	151		-8.046	0.432	-7.614	30	Pass
5795	159		-7.819	0.282	-7.537		Pass

TEST Plot for 802.11ac\_VHT40

802.11ac\_VHT40 UNII 1 BAND PSD CH 46



802.11ac\_VHT40UNII 2A BAND PSD CH 54



802.11ac\_VH40UNII 2C BAND PSD CH 134



802.11ac\_VHT40UNII 3 BAND PSD CH 159



■802.11ac\_VHT80

■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	-8.625	0.319	-8.306	11	Pass
5290	58		-8.636	0.319	-8.317		Pass
5530	106		-7.871	0.319	-7.552		Pass
5775	155		-10.909	0.319	-10.590	30	Pass

☐ TEST Plot for 802.11ac\_VHT80

802.11ac\_VHT80UNII 1 BAND PSD CH 42



802.11ac\_VHT80UNII 2A BAND PSD CH 58



802.11ac\_VHT80UNII 2C BAND PSD CH 106



802.11ac\_VHT80UNII 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.

#### 20 MHz BW

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,180,000,000 Hz  
 CHANNEL: 36  
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180072.43	72.43
100%		-30	5180052.26	52.26
100%		-20	5180055.16	55.16
100%		-10	5180060.08	60.08
100%		0	5180064.91	64.91
100%		+10	5180068.40	68.40
100%		+30	5180074.51	74.51
100%		+40	5180076.99	76.99
100%		+50	5180079.12	79.12
Batt. Max.point	4.4	+20	5180073.26	73.26
Batt. Endpoint	3.6	+20	5180071.84	71.84

**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.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,260,000,000 Hz  
 CHANNEL: 52  
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260072.89	72.89
100%		-30	5260051.18	51.18
100%		-20	5260056.47	56.47
100%		-10	5260061.27	61.27
100%		0	5260065.48	65.48
100%		+10	5260069.25	69.25
100%		+30	5260076.15	76.15
100%		+40	5260079.84	79.84
100%		+50	5260083.64	83.64
Batt. Max.point	4.4	+20	5260071.10	71.10
Batt. Endpoint	3.6	+20	5260072.58	72.58

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500075.85	75.85
100%		-30	5500050.08	50.08
100%		-20	5500054.47	54.47
100%		-10	5500059.18	59.18
100%		0	5500063.22	63.22
100%		+10	5500068.48	68.48
100%		+30	5500079.15	79.15
100%		+40	5500083.26	83.26
100%		+50	5500087.51	87.51
Batt. Max.point	4.4	+20	5500074.55	74.55
Batt. Endpoint	3.6	+20	5500072.99	72.99

**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 3  
 OPERATING FREQUENCY: 5,745,000,000 Hz  
 CHANNEL: 149  
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5745078.86	78.86
100%		-30	5745049.48	49.48
100%		-20	5745056.15	56.15
100%		-10	5745061.64	61.64
100%		0	5745063.79	63.79
100%		+10	5745070.82	70.82
100%		+30	5745083.49	83.49
100%		+40	5745087.52	87.52
100%		+50	5745090.29	90.29
Batt. Max.point	4.4	+20	5745076.49	76.49
Batt. Endpoint	3.6	+20	5745077.82	77.82

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190071.02	71.02
100%		-30	5190050.28	50.28
100%		-20	5190055.48	55.48
100%		-10	5190059.63	59.63
100%		0	5190064.12	64.12
100%		+10	5190068.19	68.19
100%		+30	5190074.52	74.52
100%		+40	5190077.94	77.94
100%		+50	5190080.12	80.12
Batt. Max.point	4.4	+20	5190070.56	70.56
Batt. Endpoint	3.6	+20	5190071.84	71.84

**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.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,270,000,000 Hz  
 CHANNEL: 54  
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270072.06	72.06
100%		-30	5270052.84	52.84
100%		-20	5270057.49	57.49
100%		-10	5270061.29	61.29
100%		0	5270064.37	64.37
100%		+10	5270068.71	68.71
100%		+30	5270076.09	76.09
100%		+40	5270080.10	80.1
100%		+50	5270084.26	84.26
Batt. Max.point	4.4	+20	5270073.08	73.08
Batt. Endpoint	3.6	+20	5270071.11	71.11

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510075.37	75.37
100%		-30	5510054.60	54.60
100%		-20	5510058.94	58.94
100%		-10	5510062.33	62.33
100%		0	5510067.48	67.48
100%		+10	5510071.19	71.19
100%		+30	5510078.52	78.52
100%		+40	5510081.64	81.64
100%		+50	5510084.99	84.99
Batt. Max.point	4.4	+20	5510070.02	70.02
Batt. Endpoint	3.6	+20	5510073.17	73.17

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5755078.57	78.57
100%		-30	5755051.14	51.14
100%		-20	5755055.95	55.95
100%		-10	5755059.64	59.64
100%		0	5755064.70	64.70
100%		+10	5755072.16	72.16
100%		+30	5755081.27	81.27
100%		+40	5755084.26	84.26
100%		+50	5755086.06	86.06
Batt. Max.point	4.4	+20	5755077.49	77.49
Batt. Endpoint	3.6	+20	5755078.03	78.03

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210070.92	70.92
100%		-30	5210051.16	51.16
100%		-20	5210054.79	54.79
100%		-10	5210060.02	60.02
100%		0	5210064.49	64.49
100%		+10	5210067.46	67.46
100%		+30	5210073.16	73.16
100%		+40	5210077.50	77.50
100%		+50	5210081.62	81.62
Batt. Max.point	4.4	+20	5210072.18	72.18
Batt. Endpoint	3.6	+20	5210071.92	71.92

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290072.12	72.12
100%		-30	5290055.46	55.46
100%		-20	5290059.15	59.15
100%		-10	5290062.14	62.14
100%		0	5290067.48	67.48
100%		+10	5290069.98	69.98
100%		+30	5290074.62	74.62
100%		+40	5290076.91	76.91
100%		+50	5290079.01	79.01
Batt. Max.point	4.4	+20	5290073.15	73.15
Batt. Endpoint	3.6	+20	5290073.66	73.66

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530075.22	75.22
100%		-30	5530054.16	54.16
100%		-20	5530058.25	58.25
100%		-10	5530061.33	61.33
100%		0	5530064.95	64.95
100%		+10	5530068.19	68.19
100%		+30	5530078.15	78.15
100%		+40	5530083.26	83.26
100%		+50	5530086.69	86.69
Batt. Max.point	4.4	+20	5530074.15	74.15
Batt. Endpoint	3.6	+20	5530073.60	73.6

**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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775078.46	78.46
100%		-30	5775056.49	56.49
100%		-20	5775060.12	60.12
100%		-10	5775064.37	64.37
100%		0	5775069.40	69.40
100%		+10	5775074.15	74.15
100%		+30	5775083.26	83.26
100%		+40	5775085.66	85.66
100%		+50	5775088.42	88.42
Batt. Max.point	4.4	+20	5775075.15	75.15
Batt. Endpoint	3.6	+20	5775076.57	76.57

**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.

**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

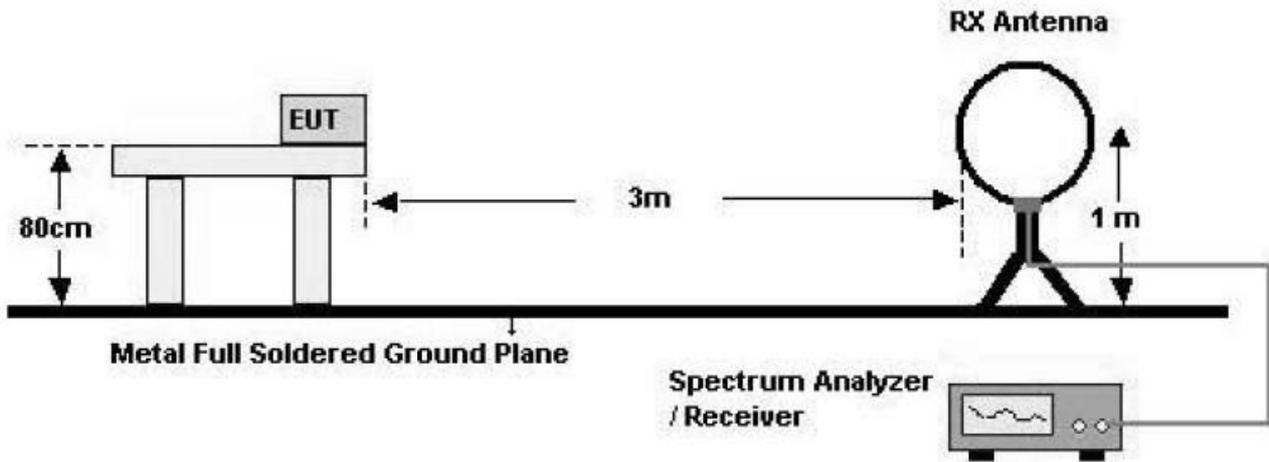
**■§15.407, KDB 789033D02 v01r02**

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.

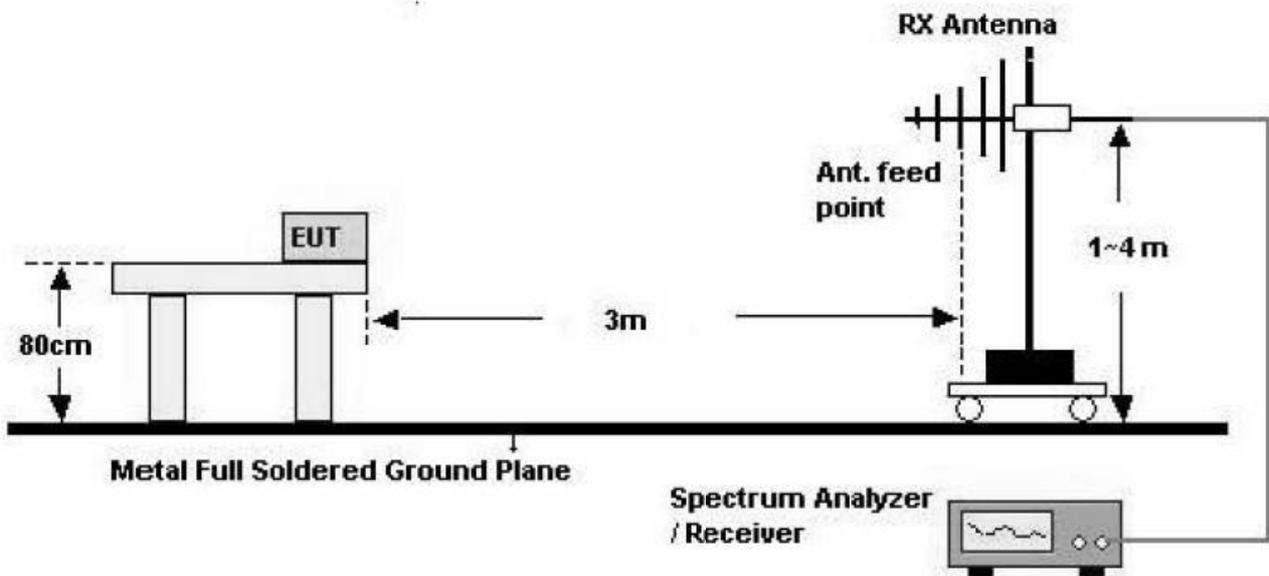
Especially, for transmitter operating in the 5725 Mhz – 5850 MHz : all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequency 10 MHz or greater above or below the band edge, emissions shall not exceed an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

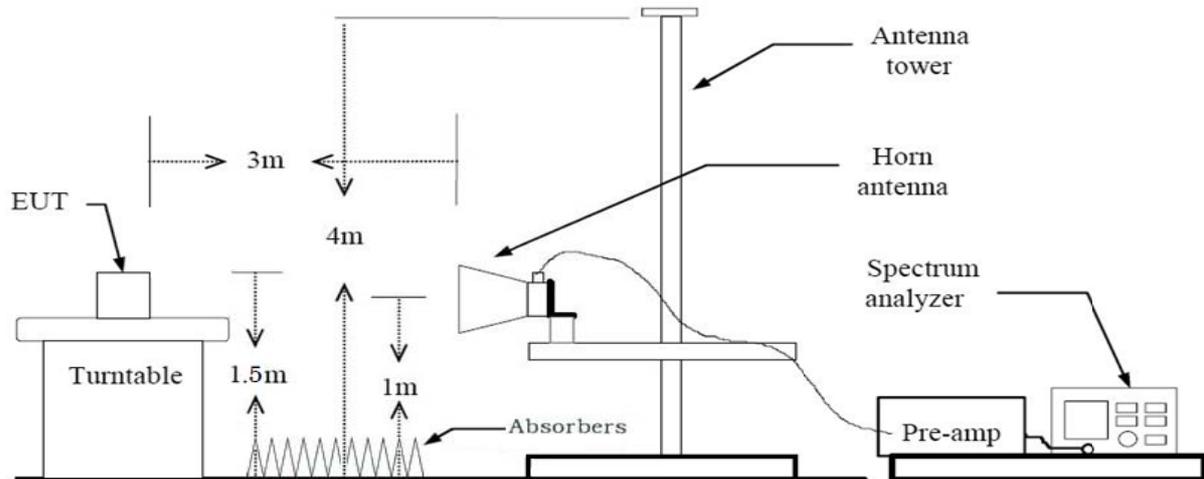
### Test Configuration

#### Below 30 MHz



#### 30 MHz - 1 GHz



**Above 1 GHz****TEST PROCEDURE USED**

ANSI C63.10:2013

Method G)5) in KDB 789033D02 v01r02(Peak)

Method G)6)d) in KDB 789033D02 v01r02 (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  $\geq$  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\_VHT40, ac\_VHT80 mode to perform the average field strength measurements.
2. The actual setting value of VBW for 802.11a, n\_HT20, n\_HT40, ac\_VHT40, ac\_VHT80 mode.

Mode	Worst Data rate (Mbps)	T <sub>on</sub> (ms)	T <sub>total</sub> (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	2.030	2.050	99.02	493	1000
n_HT20	MCS 0	1.881	1.899	99.05	532	1000
ac_VHT20	MCS 0	1.245	1.265	98.42	803	1000
n_HT40	MCS 0	1.003	1.005	99.80	997	3000
ac_VHT40	MCS 0	0.492	0.510	96.47	2033	3000
ac_VHT80	MCS 0	0.249	0.268	92.91	4016	10000

**TEST RESULTS**

**9 kHz – 30MHz**

**Operation Mode:** Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/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 (dBuV) + 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	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/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**

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	58.26	-2.21	V	56.05	68.20	12.15	PK
15540	58.16	-1.95	V	56.21	73.98	17.77	PK
15540	44.58	-1.95	V	42.63	53.98	11.35	AV
10360	58.97	-2.21	H	56.76	68.20	11.44	PK
15540	58.22	-1.95	H	56.27	73.98	17.71	PK
15540	44.98	-1.95	H	43.03	53.98	10.95	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	58.42	-2.16	V	56.26	68.20	11.94	PK
15600	58.78	-2.51	V	56.27	73.98	17.71	PK
15600	45.21	-2.51	V	42.70	53.98	11.28	AV
10400	58.54	-2.16	H	56.38	68.20	11.82	PK
15600	58.95	-2.51	H	56.44	73.98	17.54	PK
15600	45.38	-2.51	H	42.87	53.98	11.11	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	58.93	-2.59	V	56.34	68.20	11.86	PK
15720	59.38	-1.62	V	57.76	73.98	16.22	PK
15720	45.58	-1.62	V	43.96	53.98	10.02	AV
10480	59.10	-2.59	H	56.51	68.20	11.69	PK
15720	59.81	-1.62	H	58.19	73.98	15.79	PK
15720	45.92	-1.62	H	44.30	53.98	9.68	AV

**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
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

Band : UNII 1  
 Operation Mode: 802.11n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	58.79	-2.21	V	56.58	68.20	11.62	PK
15540	58.26	-1.95	V	56.31	73.98	17.67	PK
15540	45.02	-1.95	V	43.07	53.98	10.91	AV
10360	58.86	-2.21	H	56.65	68.20	11.55	PK
15540	58.16	-1.95	H	56.21	73.98	17.77	PK
15540	45.26	-1.95	H	43.31	53.98	10.67	AV

**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
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.

Band : UNII 1  
 Operation Mode: 802.11n\_ HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5200 MHz  
 Channel No. 40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	58.56	-2.16	V	56.40	68.20	11.80	PK
15600	58.99	-2.51	V	56.48	73.98	17.50	PK
15600	45.13	-2.51	V	42.62	53.98	11.36	AV
10400	58.62	-2.16	H	56.46	68.20	11.74	PK
15600	59.16	-2.51	H	56.65	73.98	17.33	PK
15600	45.22	-2.51	H	42.71	53.98	11.27	AV

**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
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.

Band : UNII 1  
 Operation Mode: 802.11n\_ HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5240 MHz  
 Channel No. 48 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	58.92	-2.59	V	56.33	68.20	11.87	PK
15720	59.34	-1.62	V	57.72	73.98	16.26	PK
15720	45.58	-1.62	V	43.96	53.98	10.02	AV
10480	59.10	-2.59	H	56.51	68.20	11.69	PK
15720	58.92	-1.62	H	57.30	73.98	16.68	PK
15720	45.62	-1.62	H	44.00	53.98	9.98	AV

**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
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.

Band : UNII 1  
 Operation Mode: 802.11ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	58.63	-2.21	V	56.42	68.20	11.78	PK
15540	58.12	-1.95	V	56.17	73.98	17.81	PK
15540	45.27	-1.95	V	43.32	53.98	10.66	AV
10360	58.79	-2.21	H	56.58	68.20	11.62	PK
15540	58.26	-1.95	H	56.31	73.98	17.67	PK
15540	45.29	-1.95	H	43.34	53.98	10.64	AV

**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
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.

Band : UNII 1  
 Operation Mode: 802.11ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5200 MHz  
 Channel No. 40 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	58.40	-2.16	V	56.24	68.20	11.96	PK
15600	58.88	-2.51	V	56.37	73.98	17.61	PK
15600	45.12	-2.51	V	42.61	53.98	11.37	AV
10400	58.42	-2.16	H	56.26	68.20	11.94	PK
15600	58.92	-2.51	H	56.41	73.98	17.57	PK
15600	45.18	-2.51	H	42.67	53.98	11.31	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	58.72	-2.59	V	56.13	68.20	12.07	PK
15720	58.48	-1.62	V	56.86	73.98	17.12	PK
15720	45.26	-1.62	V	43.64	53.98	10.34	AV
10480	58.78	-2.59	H	56.19	68.20	12.01	PK
15720	58.67	-1.62	H	57.05	73.98	16.93	PK
15720	45.44	-1.62	H	43.82	53.98	10.16	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	58.42	-2.51	V	55.91	68.20	12.29	PK
15570	58.23	-2.14	V	56.09	73.98	17.89	PK
15570	45.10	-2.14	V	42.96	53.98	11.02	AV
10380	58.46	-2.51	H	55.95	68.20	12.25	PK
15570	58.35	-2.14	H	56.21	73.98	17.77	PK
15570	45.19	-2.14	H	43.05	53.98	10.93	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	58.54	-2.28	V	56.26	68.20	11.94	PK
15690	58.47	-1.92	V	56.55	73.98	17.43	PK
15690	45.28	-1.92	V	43.36	53.98	10.62	AV
10460	58.72	-2.28	H	56.44	68.20	11.76	PK
15690	58.56	-1.92	H	56.64	73.98	17.34	PK
15690	45.42	-1.92	H	43.50	53.98	10.48	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	58.59	-2.51	V	56.08	68.20	12.12	PK
15570	58.84	-2.14	V	56.70	73.98	17.28	PK
15570	45.06	-2.14	V	42.92	53.98	11.06	AV
10380	58.68	-2.51	H	56.17	68.20	12.03	PK
15570	59.16	-2.14	H	57.02	73.98	16.96	PK
15570	45.11	-2.14	H	42.97	53.98	11.01	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	58.47	-2.28	V	56.19	68.20	12.01	PK
15690	58.28	-1.92	V	56.36	73.98	17.62	PK
15690	45.22	-1.92	V	43.30	53.98	10.68	AV
10460	58.68	-2.28	H	56.40	68.20	11.80	PK
15690	58.45	-1.92	H	56.53	73.98	17.45	PK
15690	45.29	-1.92	H	43.37	53.98	10.61	AV

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	58.72	-2.53	V	56.19	68.20	12.01	PK
15630	58.44	-2.73	V	55.71	73.98	18.27	PK
15630	45.01	-2.73	V	42.28	53.98	11.70	AV
10420	58.79	-2.53	H	56.26	68.20	11.94	PK
15630	58.78	-2.73	H	56.05	73.98	17.93	PK
15630	45.14	-2.73	H	42.41	53.98	11.57	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.45	-2.51	V	55.94	68.20	12.26	PK
15780	58.75	-2.14	V	56.61	73.98	17.37	PK
15780	44.54	-2.14	V	42.40	53.98	11.58	AV
10520	58.66	-2.51	H	56.15	68.20	12.05	PK
15780	58.82	-2.14	H	56.68	73.98	17.30	PK
15780	44.71	-2.14	H	42.57	53.98	11.41	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	59.16	-2.45	V	56.71	73.98	17.27	PK
10600	45.82	-2.45	V	43.37	53.98	10.61	AV
15900	59.58	-1.99	V	57.59	73.98	16.39	PK
15900	45.87	-1.99	V	43.88	53.98	10.10	AV
10600	59.41	-2.45	H	56.96	73.98	17.02	PK
10600	46.13	-2.45	H	43.68	53.98	10.30	AV
15900	60.11	-1.99	H	58.12	73.98	15.86	PK
15900	46.25	-1.99	H	44.26	53.98	9.72	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	58.75	-2.17	V	56.58	73.98	17.40	PK
10640	45.24	-2.17	V	43.07	53.98	10.91	AV
15960	59.10	-1.69	V	57.41	73.98	16.57	PK
15960	45.26	-1.69	V	43.57	53.98	10.41	AV
10640	58.91	-2.17	H	56.74	73.98	17.24	PK
10640	45.42	-2.17	H	43.25	53.98	10.73	AV
15960	59.30	-1.69	H	57.61	73.98	16.37	PK
15960	46.02	-1.69	H	44.33	53.98	9.65	AV

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.63	-2.51	V	56.12	68.20	12.08	PK
15780	58.45	-2.14	V	56.31	73.98	17.67	PK
15780	44.54	-2.14	V	42.40	53.98	11.58	AV
10520	58.82	-2.51	H	56.31	68.20	11.89	PK
15780	58.48	-2.14	H	56.34	73.98	17.64	PK
15780	44.56	-2.14	H	42.42	53.98	11.56	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.55	-2.45	V	56.10	73.98	17.88	PK
10600	45.78	-2.45	V	43.33	53.98	10.65	AV
15900	59.96	-1.99	V	57.97	73.98	16.01	PK
15900	46.10	-1.99	V	44.11	53.98	9.87	AV
10600	58.69	-2.45	H	56.24	73.98	17.74	PK
10600	45.94	-2.45	H	43.49	53.98	10.49	AV
15900	60.05	-1.99	H	58.06	73.98	15.92	PK
15900	46.18	-1.99	H	44.19	53.98	9.79	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	58.52	-2.17	V	56.35	73.98	17.63	PK
10640	45.51	-2.17	V	43.34	53.98	10.64	AV
15960	58.69	-1.69	V	57.00	73.98	16.98	PK
15960	45.74	-1.69	V	44.05	53.98	9.93	AV
10640	58.86	-2.17	H	56.69	73.98	17.29	PK
10640	45.52	-2.17	H	43.35	53.98	10.63	AV
15960	59.14	-1.69	H	57.45	73.98	16.53	PK
15960	45.87	-1.69	H	44.18	53.98	9.80	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.46	-2.51	V	55.95	68.20	12.25	PK
15780	58.56	-2.14	V	56.42	73.98	17.56	PK
15780	44.44	-2.14	V	42.30	53.98	11.68	AV
10520	58.75	-2.51	H	56.24	68.20	11.96	PK
15780	58.62	-2.14	H	56.48	73.98	17.50	PK
15780	44.53	-2.14	H	42.39	53.98	11.59	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.75	-2.45	V	56.30	73.98	17.68	PK
10600	45.26	-2.45	V	42.81	53.98	11.17	AV
15900	58.93	-1.99	V	56.94	73.98	17.04	PK
15900	45.86	-1.99	V	43.87	53.98	10.11	AV
10600	59.26	-2.45	H	56.81	73.98	17.17	PK
10600	45.49	-2.45	H	43.04	53.98	10.94	AV
15900	59.74	-1.99	H	57.75	73.98	16.23	PK
15900	46.11	-1.99	H	44.12	53.98	9.86	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	58.58	-2.17	V	56.41	73.98	17.57	PK
10640	45.16	-2.17	V	42.99	53.98	10.99	AV
15960	58.37	-1.69	V	56.68	73.98	17.30	PK
15960	45.58	-1.69	V	43.89	53.98	10.09	AV
10640	58.74	-2.17	H	56.57	73.98	17.41	PK
10640	45.28	-2.17	H	43.11	53.98	10.87	AV
15960	59.11	-1.69	H	57.42	73.98	16.56	PK
15960	45.72	-1.69	H	44.03	53.98	9.95	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	58.41	-2.53	V	55.88	68.20	12.32	PK
15810	58.36	-2.09	V	56.27	73.98	17.71	PK
15810	44.28	-2.09	V	42.19	53.98	11.79	AV
10540	58.46	-2.53	H	55.93	68.20	12.27	PK
15810	58.42	-2.09	H	56.33	73.98	17.65	PK
15810	44.96	-2.09	H	42.87	53.98	11.11	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	58.79	-2.19	V	56.60	73.98	17.38	PK
10620	45.12	-2.19	V	42.93	53.98	11.05	AV
15930	59.11	-1.80	V	57.31	73.98	16.67	PK
15930	45.73	-1.80	V	43.93	53.98	10.05	AV
10620	59.10	-2.19	H	56.91	73.98	17.07	PK
10620	45.26	-2.19	H	43.07	53.98	10.91	AV
15930	59.24	-1.80	H	57.44	73.98	16.54	PK
15930	45.86	-1.80	H	44.06	53.98	9.92	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	58.72	-2.53	V	56.19	68.20	12.01	PK
15810	58.64	-2.09	V	56.55	73.98	17.43	PK
15810	44.89	-2.09	V	42.80	53.98	11.18	AV
10540	58.96	-2.53	H	56.43	68.20	11.77	PK
15810	58.72	-2.09	H	56.63	73.98	17.35	PK
15810	45.10	-2.09	H	43.01	53.98	10.97	AV

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	58.94	-2.19	V	56.75	73.98	17.23	PK
10620	45.72	-2.19	V	43.53	53.98	10.45	AV
15930	58.88	-1.80	V	57.08	73.98	16.90	PK
15930	45.58	-1.80	V	43.78	53.98	10.20	AV
10620	59.15	-2.19	H	56.96	73.98	17.02	PK
10620	45.16	-2.19	H	42.97	53.98	11.01	AV
15930	59.10	-1.80	H	57.30	73.98	16.68	PK
15930	45.81	-1.80	H	44.01	53.98	9.97	AV

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	58.69	-2.58	V	56.11	68.20	12.09	PK
15870	58.43	-2.85	V	55.58	73.98	18.40	PK
15870	45.18	-2.85	V	42.33	53.98	11.65	AV
10580	58.82	-2.58	H	56.24	68.20	11.96	PK
15870	58.46	-2.85	H	55.61	73.98	18.37	PK
15870	45.26	-2.85	H	42.41	53.98	11.57	AV

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	60.26	-2.13	V	58.13	73.98	15.85	PK
11000	48.57	-2.13	V	46.44	53.98	7.54	AV
16500	59.22	0.36	V	59.58	68.20	8.62	PK
11000	59.55	-2.13	H	57.42	73.98	16.56	PK
11000	47.89	-2.13	H	45.76	53.98	8.22	AV
16500	58.94	0.36	H	59.30	68.20	8.90	PK

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	60.59	-1.75	V	58.84	73.98	15.14	PK
11160	48.80	-1.75	V	47.05	53.98	6.93	AV
16740	59.36	1.34	V	60.70	68.20	7.50	PK
11160	60.12	-1.75	H	58.37	73.98	15.61	PK
11160	48.54	-1.75	H	46.79	53.98	7.19	AV
16740	58.96	1.34	H	60.30	68.20	7.90	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	60.53	-2.57	V	57.96	73.98	16.02	PK
11400	49.48	-2.57	V	46.91	53.98	7.07	AV
17100	58.76	2.74	V	61.50	68.20	6.70	PK
11400	60.12	-2.57	H	57.55	73.98	16.43	PK
11400	49.21	-2.57	H	46.64	53.98	7.34	AV
17100	58.44	2.74	H	61.18	68.20	7.02	PK

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	60.51	-2.13	V	58.38	73.98	15.60	PK
11000	48.72	-2.13	V	46.59	53.98	7.39	AV
16500	59.17	0.36	V	59.53	68.20	8.67	PK
11000	59.72	-2.13	H	57.59	73.98	16.39	PK
11000	47.86	-2.13	H	45.73	53.98	8.25	AV
16500	58.93	0.36	H	59.29	68.20	8.91	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	60.72	-1.75	V	58.97	73.98	15.01	PK
11160	48.93	-1.75	V	47.18	53.98	6.80	AV
16740	59.29	1.34	V	60.63	68.20	7.57	PK
11160	59.83	-1.75	H	58.08	73.98	15.90	PK
11160	48.52	-1.75	H	46.77	53.98	7.21	AV
16740	58.99	1.34	H	60.33	68.20	7.87	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	60.37	-2.57	V	57.80	73.98	16.18	PK
11400	49.58	-2.57	V	47.01	53.98	6.97	AV
17100	58.62	2.74	V	61.36	68.20	6.84	PK
11400	60.12	-2.57	H	57.55	73.98	16.43	PK
11400	48.95	-2.57	H	46.38	53.98	7.60	AV
17100	58.26	2.74	H	61.00	68.20	7.20	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	60.48	-2.13	V	58.35	73.98	15.63	PK
11000	48.75	-2.13	V	46.62	53.98	7.36	AV
16500	59.11	0.36	V	59.47	68.20	8.73	PK
11000	59.84	-2.13	H	57.71	73.98	16.27	PK
11000	48.52	-2.13	H	46.39	53.98	7.59	AV
16500	59.05	0.36	H	59.41	68.20	8.79	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	60.48	-1.75	V	58.73	73.98	15.25	PK
11160	48.82	-1.75	V	47.07	53.98	6.91	AV
16740	59.11	1.34	V	60.45	68.20	7.75	PK
11160	59.72	-1.75	H	57.97	73.98	16.01	PK
11160	48.56	-1.75	H	46.81	53.98	7.17	AV
16740	58.76	1.34	H	60.10	68.20	8.10	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11400	61.21	-2.57	V	58.64	73.98	15.34	PK
11400	49.62	-2.57	V	47.05	53.98	6.93	AV
17100	59.21	2.74	V	61.95	68.20	6.25	PK
11400	60.78	-2.57	H	58.21	73.98	15.77	PK
11400	48.76	-2.57	H	46.19	53.98	7.79	AV
17100	58.96	2.74	H	61.70	68.20	6.50	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	59.05	-2.07	V	56.98	73.98	17.00	PK
11020	47.51	-2.07	V	45.44	53.98	8.54	AV
16530	58.75	0.77	V	59.52	68.20	8.68	PK
11020	58.95	-2.07	H	56.88	73.98	17.10	PK
11020	46.75	-2.07	H	44.68	53.98	9.30	AV
16530	58.42	0.77	H	59.19	68.20	9.01	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	59.30	-2.26	V	57.04	73.98	16.94	PK
11100	47.57	-2.26	V	45.31	53.98	8.67	AV
16650	59.36	1.90	V	61.26	68.20	6.94	PK
11100	59.12	-2.26	H	56.86	73.98	17.12	PK
11100	47.26	-2.26	H	45.00	53.98	8.98	AV
16650	58.76	1.90	H	60.66	68.20	7.54	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	59.86	-1.94	V	57.92	73.98	16.06	PK
11340	48.55	-1.94	V	46.61	53.98	7.37	AV
17010	59.21	2.66	V	61.87	68.20	6.33	PK
11340	59.36	-1.94	H	57.42	73.98	16.56	PK
11340	48.05	-1.94	H	46.11	53.98	7.87	AV
17010	59.05	2.66	H	61.71	68.20	6.49	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	58.97	-2.07	V	56.90	73.98	17.08	PK
11020	47.23	-2.07	V	45.16	53.98	8.82	AV
16530	58.79	0.77	V	59.56	68.20	8.64	PK
11020	58.88	-2.07	H	56.81	73.98	17.17	PK
11020	47.16	-2.07	H	45.09	53.98	8.89	AV
16530	58.68	0.77	H	59.45	68.20	8.75	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	59.65	-2.26	V	57.39	73.98	16.59	PK
11100	47.53	-2.26	V	45.27	53.98	8.71	AV
16650	59.11	1.90	V	61.01	68.20	7.19	PK
11100	59.22	-2.26	H	56.96	73.98	17.02	PK
11100	47.29	-2.26	H	45.03	53.98	8.95	AV
16650	58.93	1.90	H	60.83	68.20	7.37	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11340	60.46	-1.94	V	58.52	73.98	15.46	PK
11340	48.68	-1.94	V	46.74	53.98	7.24	AV
17010	59.79	2.66	V	62.45	68.20	5.75	PK
11340	60.28	-1.94	H	58.34	73.98	15.64	PK
11340	48.59	-1.94	H	46.65	53.98	7.33	AV
17010	59.56	2.66	H	62.22	68.20	5.98	PK

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	59.98	-1.75	V	58.23	73.98	15.75	PK
11060	48.46	-1.75	V	46.71	53.98	7.27	AV
16590	59.85	1.29	V	61.14	68.20	7.06	PK
11060	58.92	-1.75	H	57.17	73.98	16.81	PK
11060	48.53	-1.75	H	46.78	53.98	7.20	AV
16590	59.42	1.29	H	60.71	68.20	7.49	PK

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	60.47	-1.70	V	58.77	73.98	15.21	PK
11490	50.98	-1.70	V	49.28	53.98	4.70	AV
17235	58.14	2.52	V	60.66	68.20	7.54	PK
11490	60.12	-1.70	H	58.42	73.98	15.56	PK
11490	49.55	-1.70	H	47.85	53.98	6.13	AV
17235	58.05	2.52	H	60.57	68.20	7.63	PK

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	60.39	-2.08	V	58.31	73.98	15.67	PK
11570	51.44	-2.08	V	49.36	53.98	4.62	AV
17355	58.72	2.67	V	61.39	68.20	6.81	PK
11570	59.78	-2.08	H	57.70	73.98	16.28	PK
11570	50.60	-2.08	H	48.52	53.98	5.46	AV
17355	58.22	2.67	H	60.89	68.20	7.31	PK

**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
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.

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	61.96	-2.36	V	59.60	73.98	14.38	PK
11650	52.55	-2.36	V	50.19	53.98	3.79	AV
17475	60.11	3.81	V	63.92	68.20	4.28	PK
11650	60.48	-2.36	H	58.12	73.98	15.86	PK
11650	51.28	-2.36	H	48.92	53.98	5.06	AV
17475	59.71	3.81	H	63.52	68.20	4.68	PK

**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
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

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	60.42	-1.70	V	58.72	73.98	15.26	PK
11490	51.19	-1.70	V	49.49	53.98	4.49	AV
17235	59.07	2.52	V	61.59	68.20	6.61	PK
11490	60.13	-1.70	H	58.43	73.98	15.55	PK
11490	50.54	-1.70	H	48.84	53.98	5.14	AV
17235	58.75	2.52	H	61.27	68.20	6.93	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	62.01	-2.08	V	59.93	73.98	14.05	PK
11570	52.04	-2.08	V	49.96	53.98	4.02	AV
17355	58.76	2.67	V	61.43	68.20	6.77	PK
11570	61.02	-2.08	H	58.94	73.98	15.04	PK
11570	51.21	-2.08	H	49.13	53.98	4.85	AV
17355	58.47	2.67	H	61.14	68.20	7.06	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	61.57	-2.36	V	59.21	73.98	14.77	PK
11650	53.11	-2.36	V	50.75	53.98	3.23	AV
17475	60.64	3.81	V	64.45	68.20	3.75	PK
11650	60.75	-2.36	H	58.39	73.98	15.59	PK
11650	52.45	-2.36	H	50.09	53.98	3.89	AV
17475	59.79	3.81	H	63.60	68.20	4.60	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	60.44	-1.70	V	58.74	73.98	15.24	PK
11490	51.69	-1.70	V	49.99	53.98	3.99	AV
17235	58.40	2.52	V	60.92	68.20	7.28	PK
11490	59.78	-1.70	H	58.08	73.98	15.90	PK
11490	50.75	-1.70	H	49.05	53.98	4.93	AV
17235	58.21	2.52	H	60.73	68.20	7.47	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	60.40	-2.08	V	58.32	73.98	15.66	PK
11570	51.80	-2.08	V	49.72	53.98	4.26	AV
17355	59.09	2.67	V	61.76	68.20	6.44	PK
11570	60.11	-2.08	H	58.03	73.98	15.95	PK
11570	50.96	-2.08	H	48.88	53.98	5.10	AV
17355	58.87	2.67	H	61.54	68.20	6.66	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	61.09	-2.36	V	58.73	73.98	15.25	PK
11650	53.10	-2.36	V	50.74	53.98	3.24	AV
17475	60.30	3.81	V	64.11	68.20	4.09	PK
11650	60.23	-2.36	H	57.87	73.98	16.11	PK
11650	51.54	-2.36	H	49.18	53.98	4.80	AV
17475	59.21	3.81	H	63.02	68.20	5.18	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	60.71	-1.79	V	58.92	73.98	15.06	PK
11510	51.54	-1.79	V	49.75	53.98	4.23	AV
17265	58.48	3.16	V	61.64	68.20	6.56	PK
11510	59.82	-1.79	H	58.03	73.98	15.95	PK
11510	50.76	-1.79	H	48.97	53.98	5.01	AV
17265	58.24	3.16	H	61.40	68.20	6.80	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	60.62	-2.20	V	58.42	73.98	15.56	PK
11590	52.46	-2.20	V	50.26	53.98	3.72	AV
17385	59.48	3.26	V	62.74	68.20	5.46	PK
11590	59.77	-2.20	H	57.57	73.98	16.41	PK
11590	51.32	-2.20	H	49.12	53.98	4.86	AV
17385	59.21	3.26	H	62.47	68.20	5.73	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	60.18	-1.79	V	58.39	73.98	15.59	PK
11510	51.19	-1.79	V	49.40	53.98	4.58	AV
17265	58.09	3.16	V	61.25	68.20	6.95	PK
11510	60.11	-1.79	H	58.32	73.98	15.66	PK
11510	50.86	-1.79	H	49.07	53.98	4.91	AV
17265	58.02	3.16	H	61.18	68.20	7.02	PK

**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
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.

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	60.56	-2.20	V	58.36	73.98	15.62	PK
11590	52.59	-2.20	V	50.39	53.98	3.59	AV
17385	59.23	3.26	V	62.49	68.20	5.71	PK
11590	60.21	-2.20	H	58.01	73.98	15.97	PK
11590	51.06	-2.20	H	48.86	53.98	5.12	AV
17385	59.11	3.26	H	62.37	68.20	5.83	PK

**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
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

Band : UNII 3  
 Operation Mode: 802.11ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5775 MHz  
 Channel No. 155 Ch

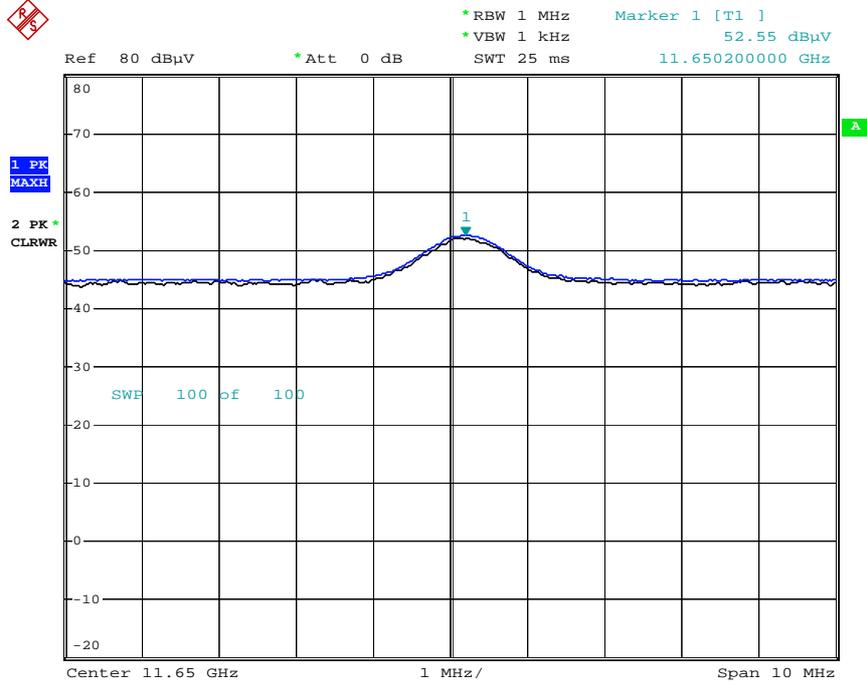
Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	59.47	-1.78	V	57.69	73.98	16.29	PK
11550	51.19	-1.78	V	49.41	53.98	4.57	AV
17325	58.99	2.95	V	61.94	68.20	6.26	PK
11550	59.26	-1.78	H	57.48	73.98	16.50	PK
11550	51.13	-1.78	H	49.35	53.98	4.63	AV
17325	58.26	2.95	H	61.21	68.20	6.99	PK

**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
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.

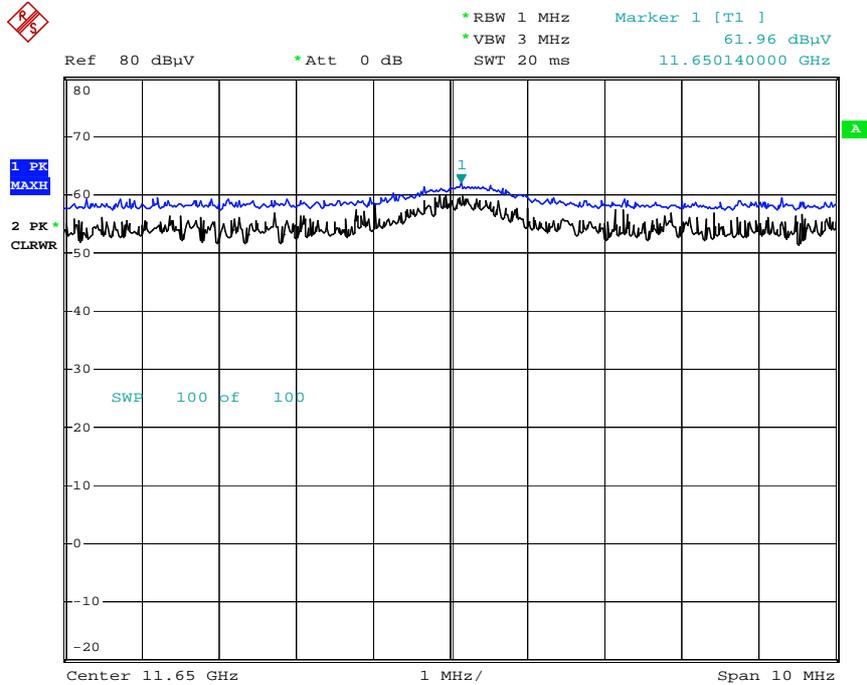
RESULT PLOTS

Radiated Spurious Emissions plot –a Reading (802.11a, Ch.165 2nd Harmonic, x-V)



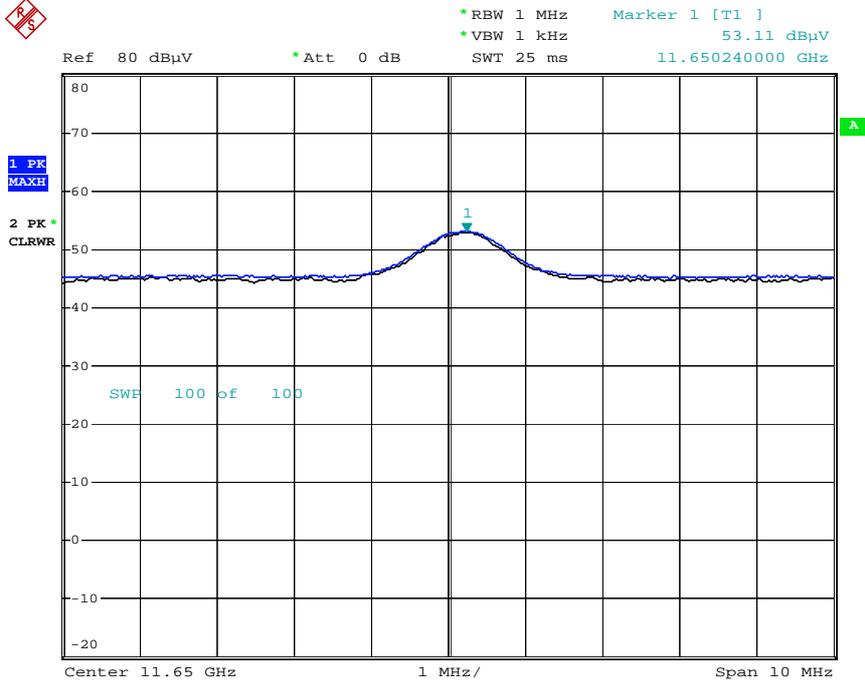
Date: 11.APR.2016 04:01:39

Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.165 2nd Harmonic, x-V)



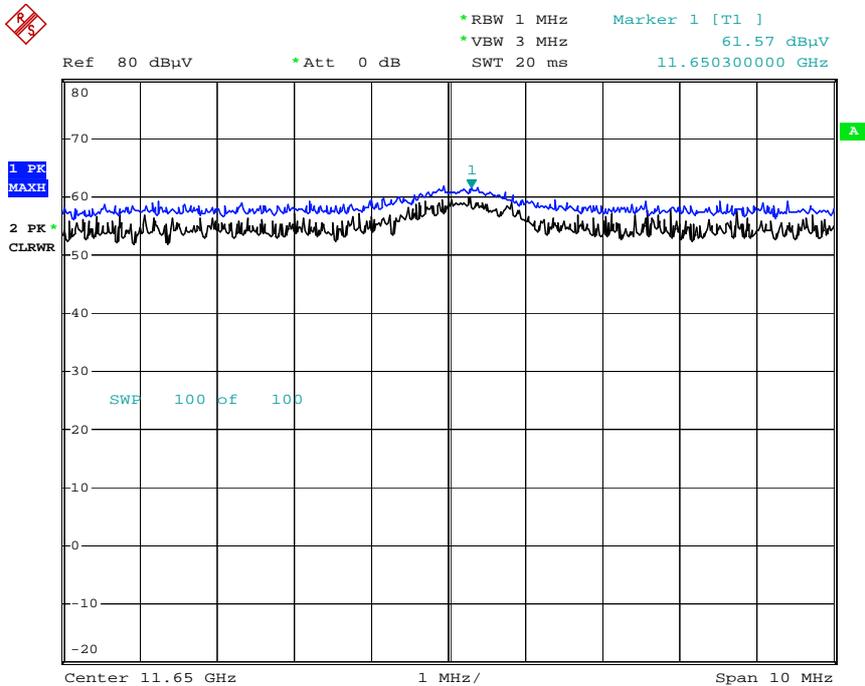
Date: 11.APR.2016 04:03:41

**Radiated Spurious Emissions plot –Average Reading(802.11n\_HT20, Ch.1652nd Harmonic, x-V)**



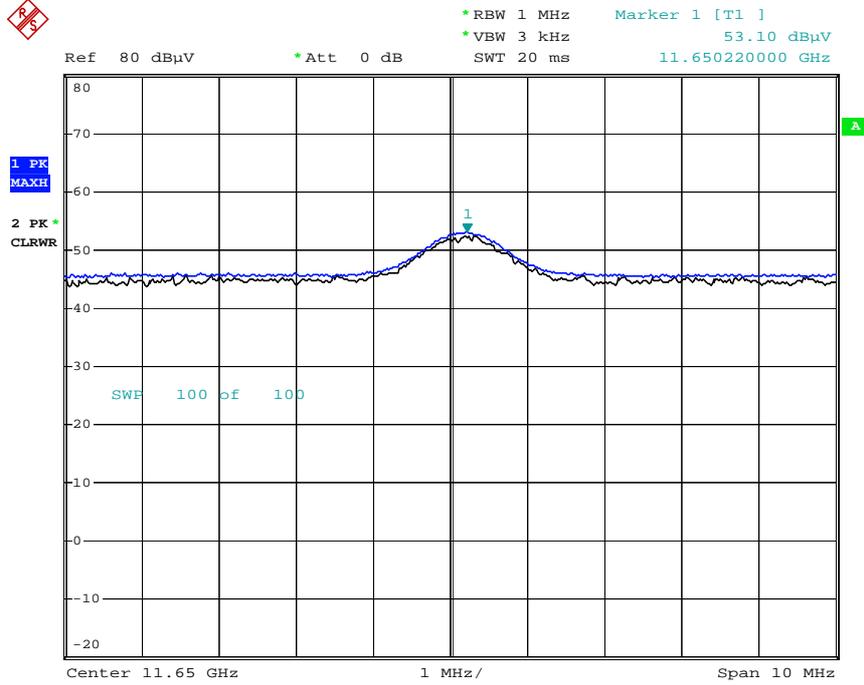
Date: 11.APR.2016 04:39:35

**Radiated Spurious Emissions plot –Peak Reading(802.11n\_HT20, Ch.1652nd Harmonic, x-V)**



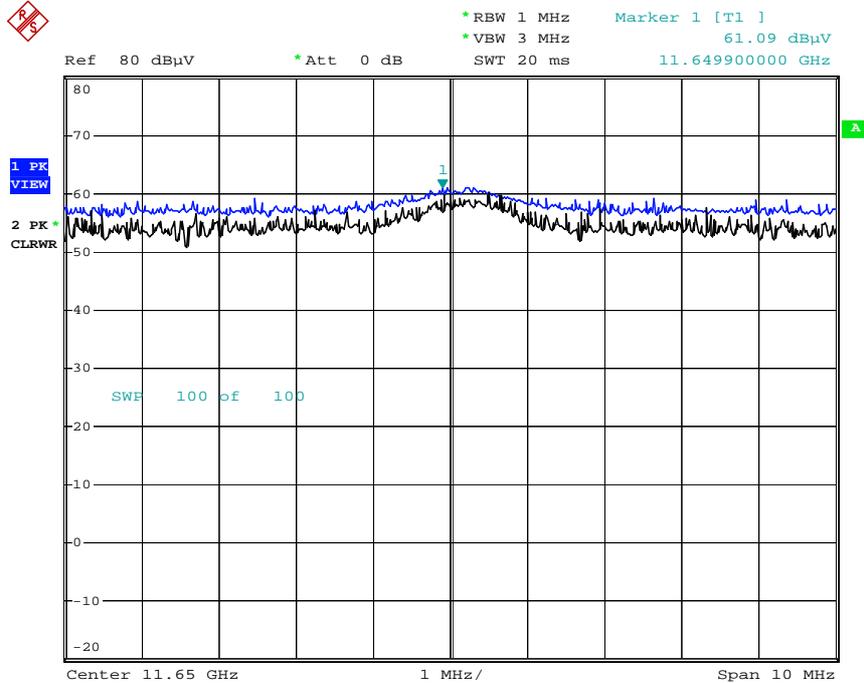
Date: 11.APR.2016 04:40:26

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT20, Ch.1652nd Harmonic, x-V)**



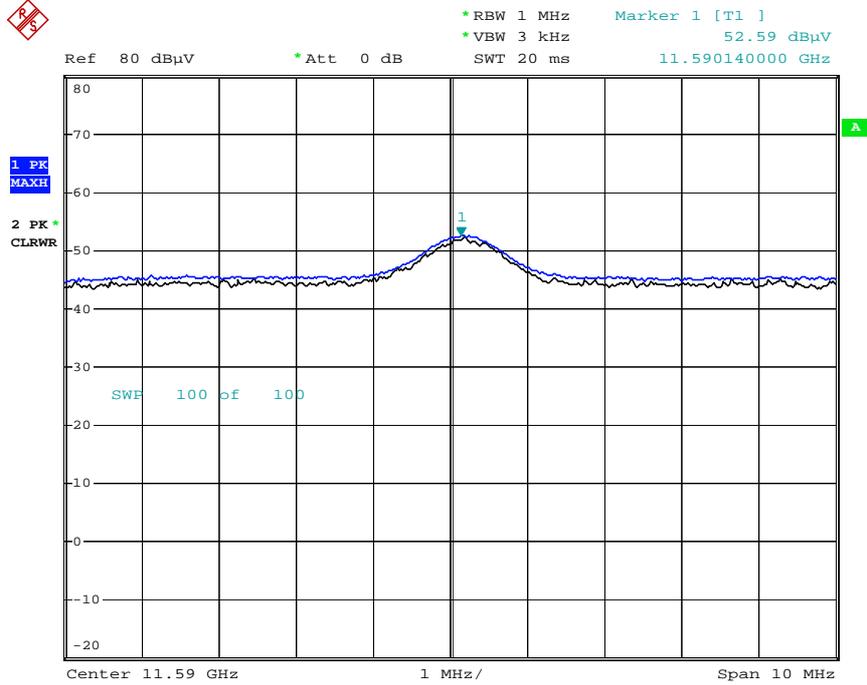
Date: 14.APR.2016 12:05:06

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_VHT20, Ch.1652nd Harmonic, x-V)**



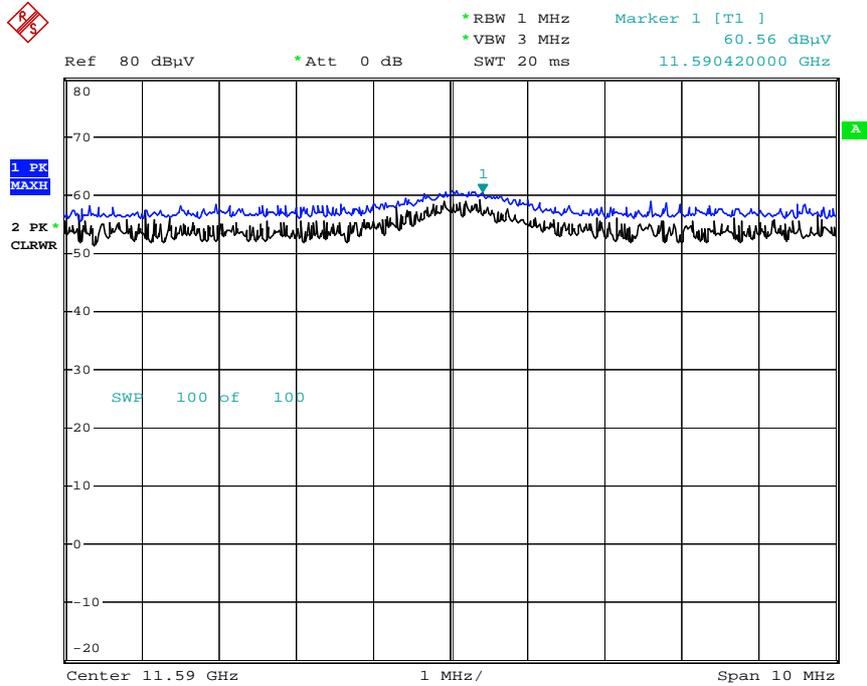
Date: 11.APR.2016 04:47:04

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT40, Ch.1592rd Harmonic, x-V)**



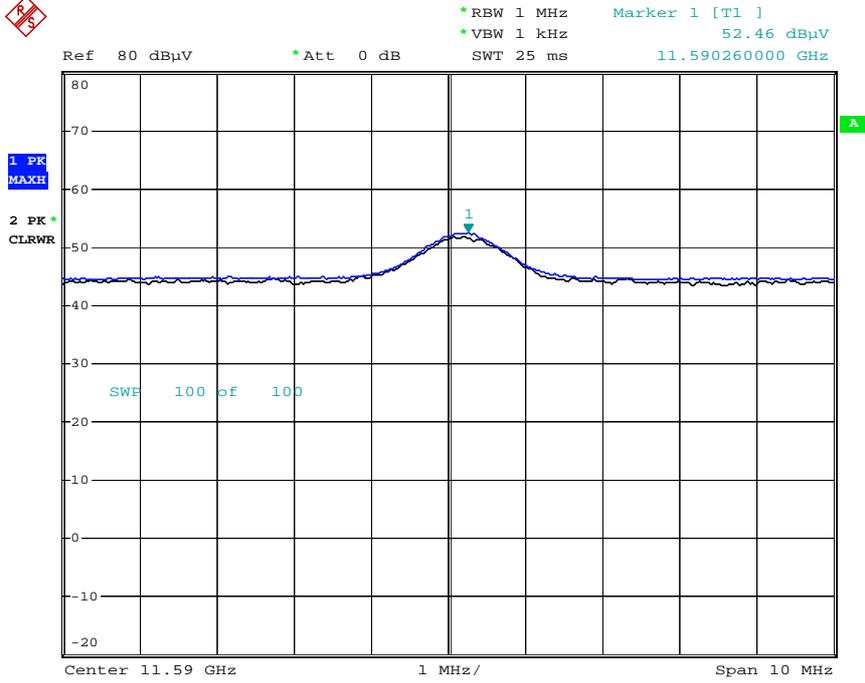
Date: 14.APR.2016 12:07:37

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_VHT40, Ch.1592rd Harmonic, x-V)**



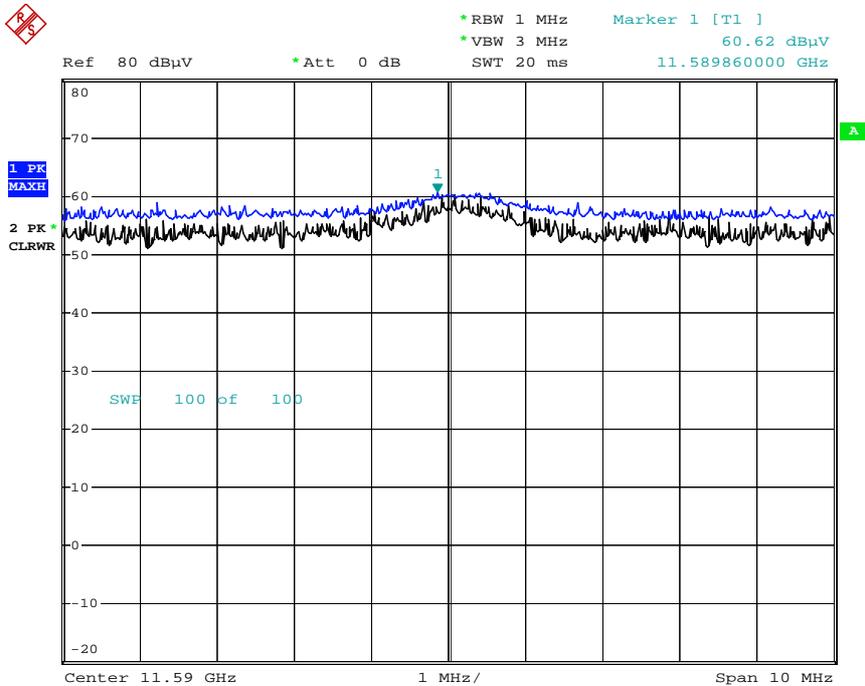
Date: 11.APR.2016 07:44:25

**Radiated Spurious Emissions plot –Average Reading (802.11n\_HT40, Ch.159 3rd Harmonic, x-V)**



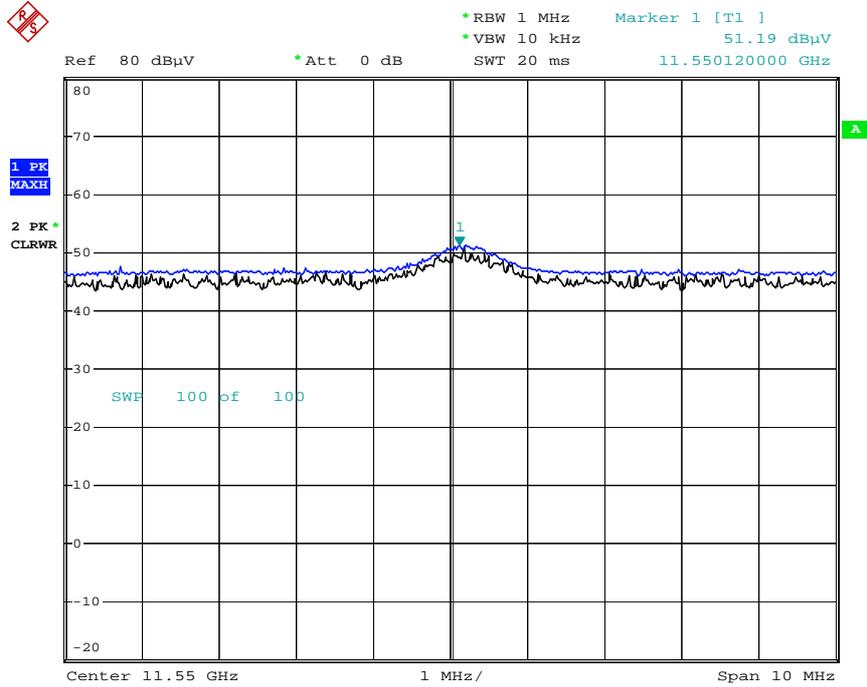
Date: 11.APR.2016 07:37:41

**Radiated Spurious Emissions plot –Peak Reading (802.11n\_HT40, Ch.159 3rd Harmonic, x-V)**



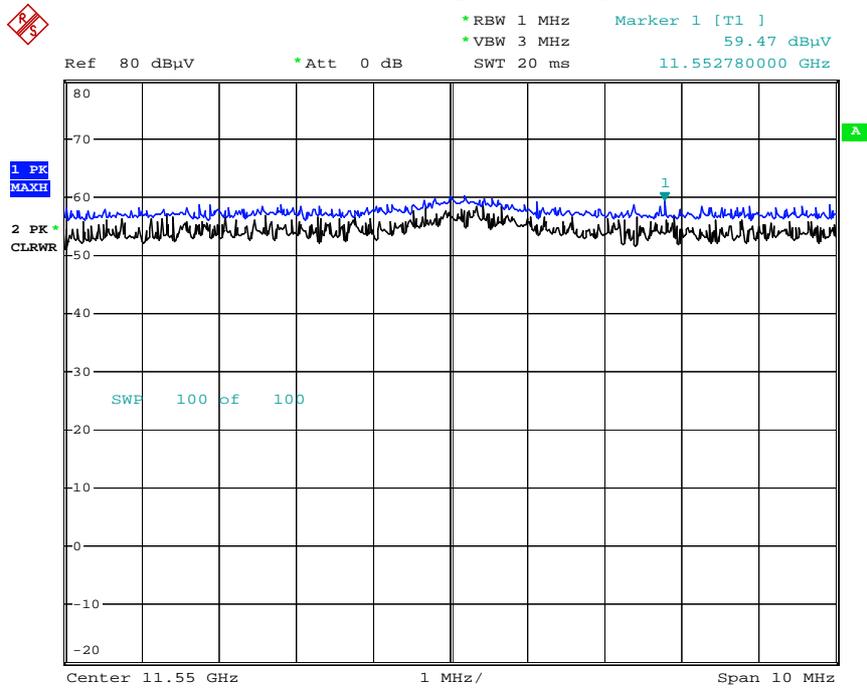
Date: 11.APR.2016 07:36:50

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT80, Ch.155 3rd Harmonic, x-V)**



Date: 21.APR.2016 02:57:29

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_VHT80, Ch.155 3rd Harmonic, x-V)**



Date: 21.APR.2016 02:58:21

**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)).

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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.35	3.13	H	57.48	73.98	16.50	PK
5150	42.25	3.13	H	45.38	53.98	8.60	AV
5150	54.16	3.13	V	57.29	73.98	16.69	PK
5150	42.12	3.13	V	45.25	53.98	8.73	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.20	3.13	H	57.33	73.98	16.65	PK
5150	41.37	3.13	H	44.5	53.98	9.48	AV
5150	53.84	3.13	V	56.97	73.98	17.01	PK
5150	40.89	3.13	V	44.02	53.98	9.96	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.95	3.13	H	57.08	73.98	16.90	PK
5150	41.39	3.13	H	44.52	53.98	9.46	AV
5150	53.75	3.13	V	56.88	73.98	17.10	PK
5150	40.78	3.13	V	43.91	53.98	10.07	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.14	3.13	H	57.27	73.98	16.71	PK
5150	40.94	3.13	H	44.07	53.98	9.91	AV
5150	53.75	3.13	V	56.88	73.98	17.10	PK
5150	40.57	3.13	V	43.7	53.98	10.28	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.75	3.13	H	56.88	73.98	17.10	PK
5150	41.23	3.13	H	44.36	53.98	9.62	AV
5150	53.59	3.13	V	56.72	73.98	17.26	PK
5150	40.24	3.13	V	43.37	53.98	10.61	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.47	3.13	H	57.60	73.98	16.38	PK
5150	41.04	3.13	H	44.17	53.98	9.81	AV
5150	54.12	3.13	V	57.25	73.98	16.73	PK
5150	40.84	3.13	V	43.97	53.98	10.01	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	55.87	3.24	H	59.11	73.98	14.87	PK
5350	43.09	3.24	H	46.33	53.98	7.65	AV
5350	54.93	3.24	V	58.17	73.98	15.81	PK
5350	42.58	3.24	V	45.82	53.98	8.16	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.84	3.24	H	57.08	73.98	16.90	PK
5350	41.86	3.24	H	45.1	53.98	8.88	AV
5350	53.61	3.24	V	56.85	73.98	17.13	PK
5350	40.87	3.24	V	44.11	53.98	9.87	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.49	3.24	H	57.73	73.98	16.25	PK
5350	41.92	3.24	H	45.16	53.98	8.82	AV
5350	54.28	3.24	V	57.52	73.98	16.46	PK
5350	41.44	3.24	V	44.68	53.98	9.30	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.58	3.24	H	57.82	73.98	16.16	PK
5350	40.90	3.24	H	44.14	53.98	9.84	AV
5350	54.26	3.24	V	57.5	73.98	16.48	PK
5350	40.72	3.24	V	43.96	53.98	10.02	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.02	3.24	H	57.26	73.98	16.72	PK
5350	40.50	3.24	H	43.74	53.98	10.24	AV
5350	53.88	3.24	V	57.12	73.98	16.86	PK
5350	40.26	3.24	V	43.5	53.98	10.48	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	55.43	3.24	H	58.67	73.98	15.31	PK
5350	41.80	3.24	H	45.04	53.98	8.94	AV
5350	55.13	3.24	V	58.37	73.98	15.61	PK
5350	41.44	3.24	V	44.68	53.98	9.30	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	55.09	3.59	H	58.68	73.98	15.30	PK
5460	42.88	3.59	H	46.47	53.98	7.51	AV
5470	54.46	3.56	H	58.02	68.20	10.18	PK
5460	54.36	3.59	V	57.95	73.98	16.03	PK
5460	41.95	3.59	V	45.54	53.98	8.44	AV
5470	54.21	3.56	V	57.77	68.20	10.43	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	58.82	4.08	H	62.90	68.20	5.30	PK
5725	57.93	4.08	V	62.01	68.20	6.19	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.32	3.59	H	57.91	73.98	16.07	PK
5460	41.58	3.59	H	45.17	53.98	8.81	AV
5470	53.99	3.56	H	57.55	68.20	10.65	PK
5460	54.26	3.59	V	57.85	73.98	16.13	PK
5460	40.74	3.59	V	44.33	53.98	9.65	AV
5470	53.72	3.56	V	57.28	68.20	10.92	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	54.67	4.08	H	58.75	68.20	9.45	PK
5725	54.51	4.08	V	58.59	68.20	9.61	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.79	3.59	H	57.38	73.98	16.60	PK
5460	42.40	3.59	H	45.99	53.98	7.99	AV
5470	54.19	3.56	H	57.75	68.20	10.45	PK
5460	53.59	3.59	V	57.18	73.98	16.80	PK
5460	41.56	3.59	V	45.15	53.98	8.83	AV
5470	54.11	3.56	V	57.67	68.20	10.53	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	53.60	4.08	H	57.68	68.20	10.52	PK
5725	53.29	4.08	V	57.37	68.20	10.83	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.27	3.59	H	57.86	73.98	16.12	PK
5460	40.28	3.59	H	43.87	53.98	10.11	AV
5470	54.19	3.56	H	57.75	68.20	10.45	PK
5460	54.11	3.59	V	57.7	73.98	16.28	PK
5460	40.21	3.59	V	43.8	53.98	10.18	AV
5470	54.05	3.56	V	57.61	68.20	10.59	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	54.05	4.08	H	58.13	68.20	10.07	PK
5725	53.88	4.08	V	57.96	68.20	10.24	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.61	3.59	H	57.20	73.98	16.78	PK
5460	40.18	3.59	H	43.77	53.98	10.21	AV
5470	54.06	3.56	H	57.62	68.20	10.58	PK
5460	53.45	3.59	V	57.04	73.98	16.94	PK
5460	40.16	3.59	V	43.75	53.98	10.23	AV
5470	53.90	3.56	V	57.46	68.20	10.74	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	53.26	4.08	H	57.34	68.20	10.86	PK
5725	53.18	4.08	V	57.26	68.20	10.94	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. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	54.85	3.59	H	58.44	73.98	15.54	PK
5460	40.82	3.59	H	44.41	53.98	9.57	AV
5470	55.86	3.56	H	59.42	68.20	8.78	PK
5460	54.17	3.59	V	57.76	73.98	16.22	PK
5460	40.42	3.59	V	44.01	53.98	9.97	AV
5470	55.29	3.56	V	58.85	68.20	9.35	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	67.11	4.08	H	71.19	78.20	7.01	PK
5725	65.84	4.08	V	69.92	78.20	8.28	PK
5715	54.32	3.99	H	58.31	68.20	9.90	PK
5715	53.96	3.99	V	57.95	68.20	10.26	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	54.88	4.40	H	59.28	78.20	18.92	PK
5850	54.62	4.40	V	59.02	78.20	19.18	PK
5860	53.80	4.42	H	58.22	68.20	9.98	PK
5860	53.69	4.42	V	58.11	68.20	10.09	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	59.39	4.08	H	63.47	78.20	14.73	PK
5725	58.81	4.08	V	62.89	78.20	15.31	PK
5715	54.08	3.99	H	58.07	68.20	10.14	PK
5715	53.69	3.99	V	57.68	68.20	10.53	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	54.16	4.40	H	58.56	78.20	19.64	PK
5850	53.86	4.40	V	58.26	78.20	19.94	PK
5860	53.69	4.42	H	58.11	68.20	10.09	PK
5860	53.25	4.42	V	57.67	68.20	10.53	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	57.64	4.08	H	61.72	78.20	16.48	PK
5725	57.10	4.08	V	61.18	78.20	17.02	PK
5715	53.64	3.99	H	57.63	68.20	10.58	PK
5715	53.48	3.99	V	57.47	68.20	10.74	PK

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+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	54.87	4.40	H	59.27	78.20	18.93	PK
5850	54.47	4.40	V	58.87	78.20	19.33	AV
5860	54.16	4.42	H	58.58	68.20	9.62	PK
5860	53.88	4.42	V	58.3	68.20	9.90	AV

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	60.43	4.08	H	64.51	78.20	13.69	PK
5725	59.84	4.08	V	63.92	78.20	14.28	PK
5715	54.08	3.99	H	58.07	68.20	10.14	PK
5715	53.79	3.99	V	57.78	68.20	10.43	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	53.99	4.40	H	58.39	78.20	19.81	PK
5850	52.94	4.40	V	57.34	78.20	20.86	PK
5860	53.75	4.42	H	58.17	68.20	10.03	PK
5860	53.47	4.42	V	57.89	68.20	10.31	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	58.41	4.08	H	62.49	78.20	15.71	PK
5725	57.85	4.08	V	61.93	78.20	16.27	PK
5715	53.68	3.99	H	57.67	68.20	10.54	PK
5715	53.49	3.99	V	57.48	68.20	10.73	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	54.10	4.40	H	58.50	78.20	19.70	PK
5850	53.89	4.40	V	58.29	78.20	19.91	AV
5860	53.82	4.42	H	58.24	68.20	9.96	PK
5860	53.70	4.42	V	58.12	68.20	10.08	AV

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 155 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	59.17	4.08	H	63.25	78.20	14.95	PK
5725	59.12	4.08	V	63.2	78.20	15.00	PK
5715	55.20	3.99	H	59.19	68.20	9.02	PK
5715	54.85	3.99	V	58.835	68.20	9.37	PK
5850	54.54	4.40	H	58.94	78.20	19.26	PK
5850	54.28	4.40	V	58.68	78.20	19.52	PK
5860	53.76	4.42	H	58.18	68.20	10.02	PK
5860	53.23	4.42	V	57.65	68.20	10.55	PK

**Notes:**

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
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)
5. The mark '#' is tested according to II.G.2.c in KDB 789033D02 v01r02

## II. MEASUREMENT PROCEDURES

### G. Unwanted Emission Measurement

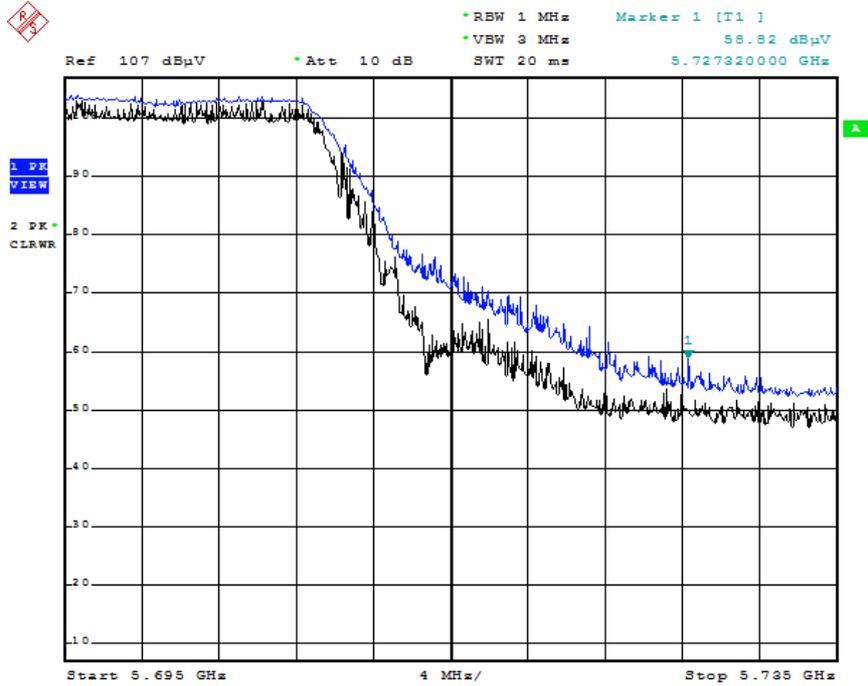
#### 2. Unwanted Emissions that fall Outside of the Restricted Bands

c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in section II.G.5., "Procedure for Unwanted Maximum Unwanted Emissions Measurements Above 1000 MHz".

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

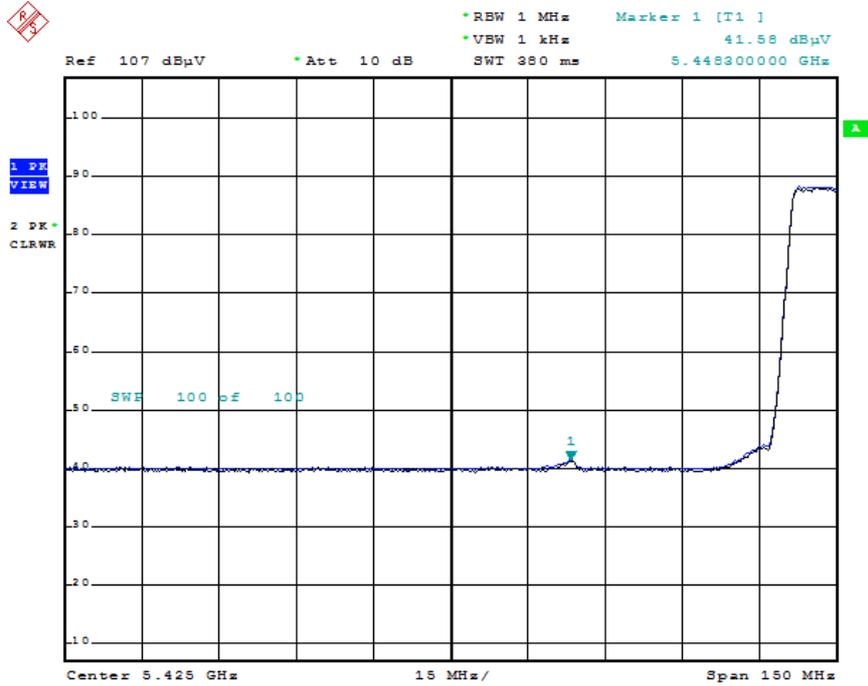
■ RESULT PLOTS

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.140, x-H)



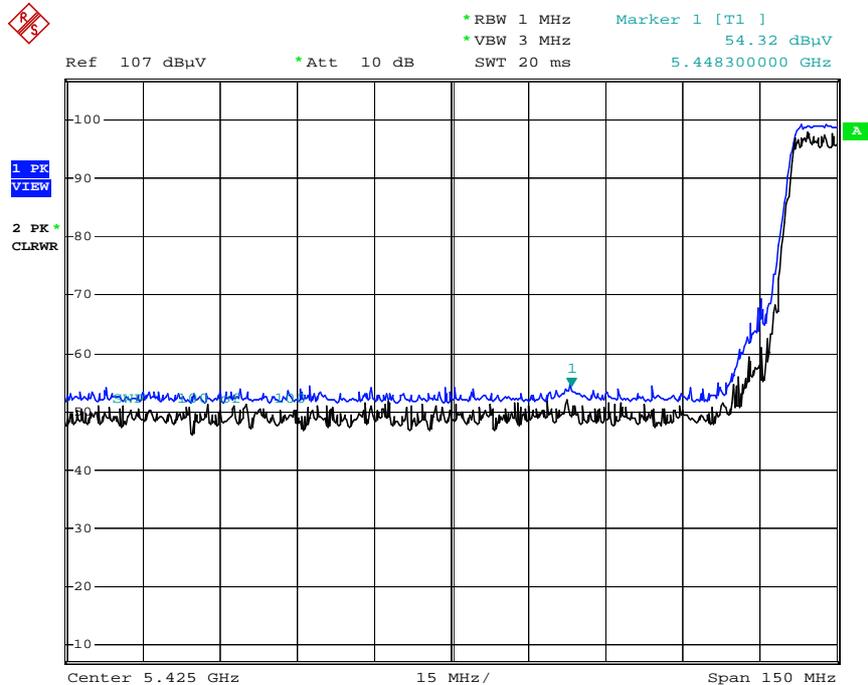
Date: 7.APR.2016 14:18:01

**Radiated Restricted Band Edges plot – Average Reading (802.11n\_HT20, Ch.100, x-H)**



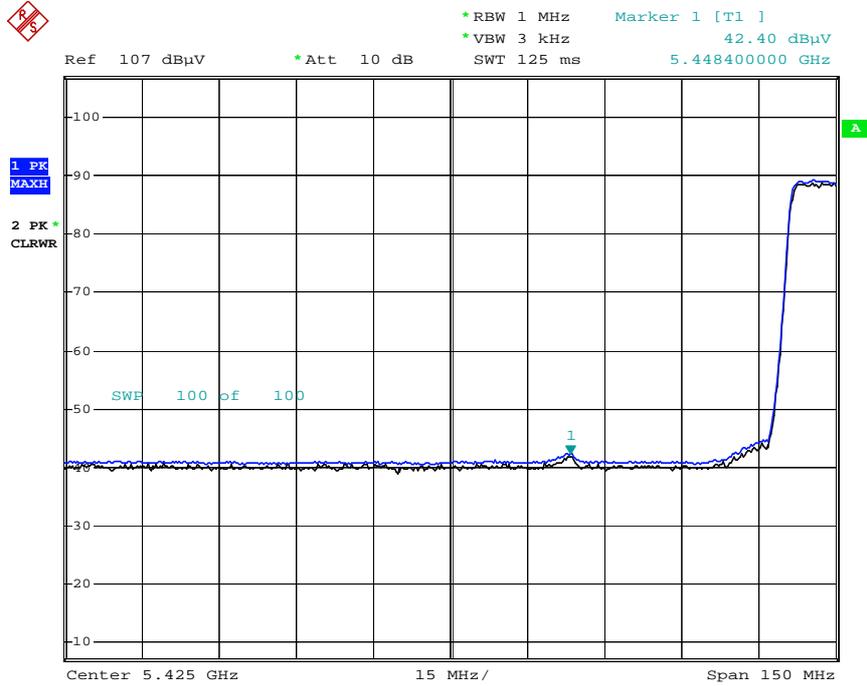
Date: 1.APR.2016 04:26:29

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_HT20, Ch.100, x-H)**



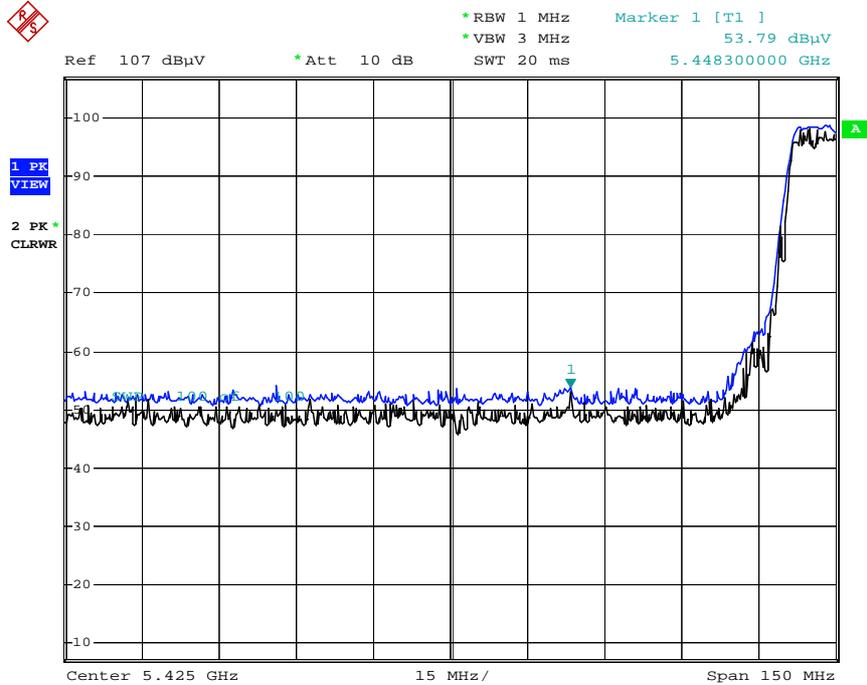
Date: 1.APR.2016 04:24:11

**Radiated Restricted Band Edges plot – Average Reading (802.11ac\_VHT20, Ch.100, x-H)**



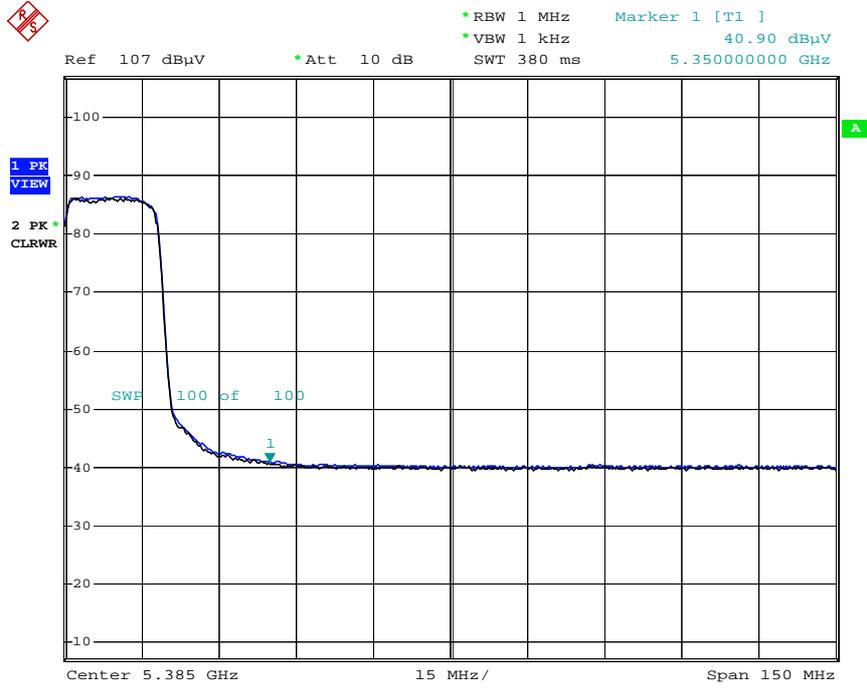
Date: 14.APR.2016 11:56:09

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_VHT20, Ch.100, x-H)**



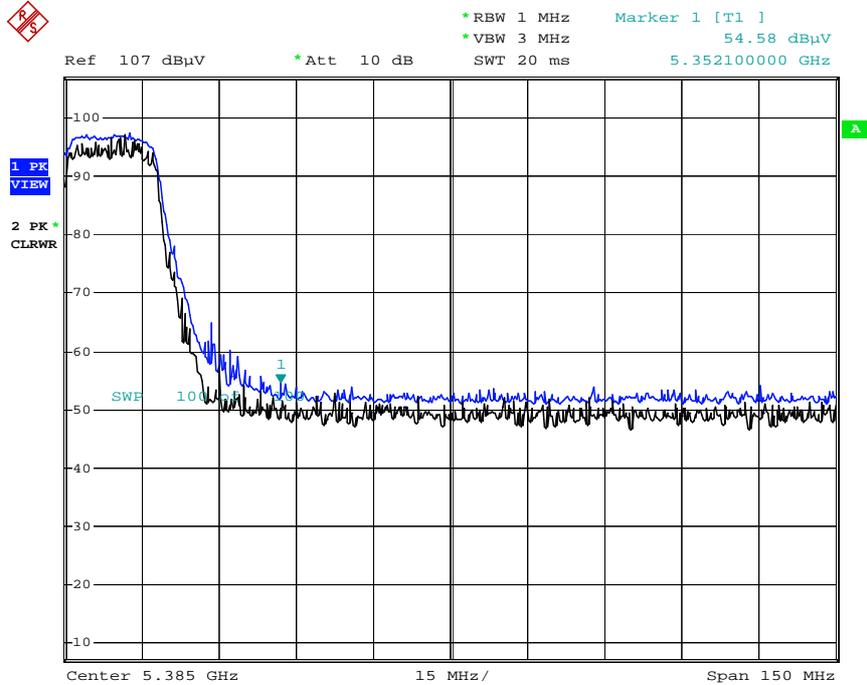
Date: 1.APR.2016 04:29:43

**Radiated Restricted Band Edges plot –Peak Reading (802.11n\_HT40, Ch.62, x-H)**



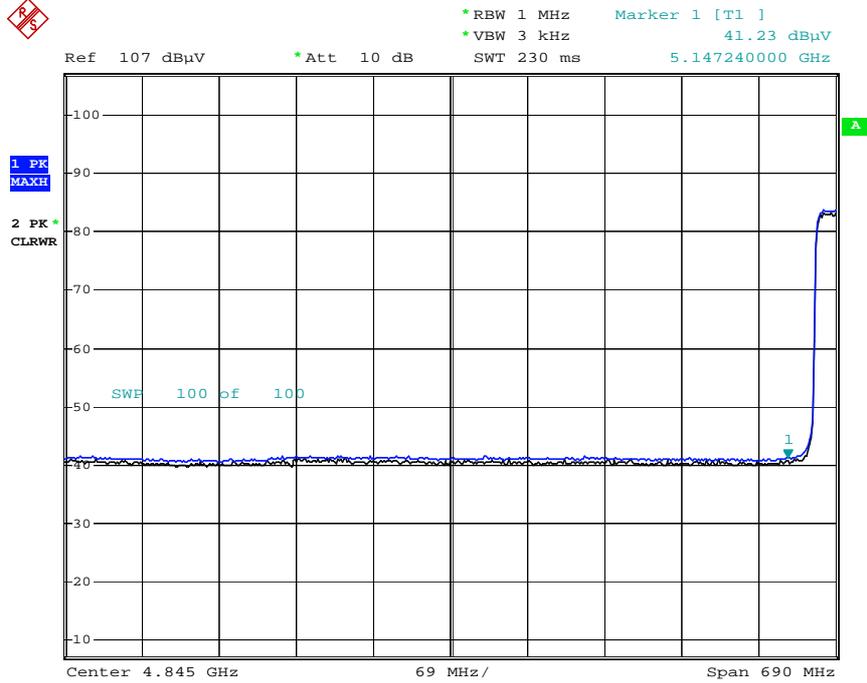
Date: 1.APR.2016 07:23:28

**Radiated Restricted Band Edges plot –PeakReading (802.11n\_HT40, Ch.62, x-H)**



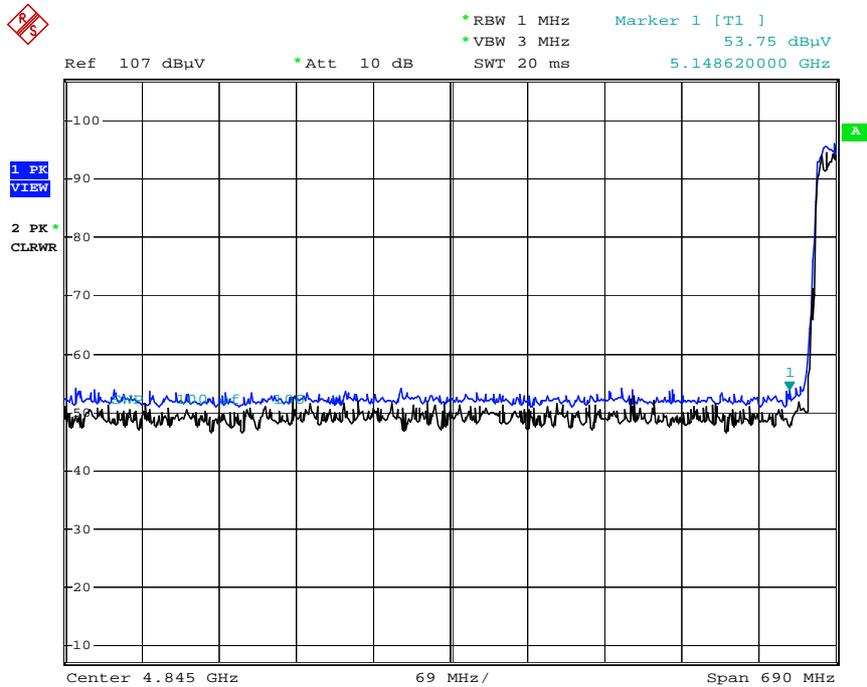
Date: 1.APR.2016 07:25:00

**Radiated Restricted Band Edges plot –Average Reading (802.11ac\_VHT40, Ch.38, x-H)**



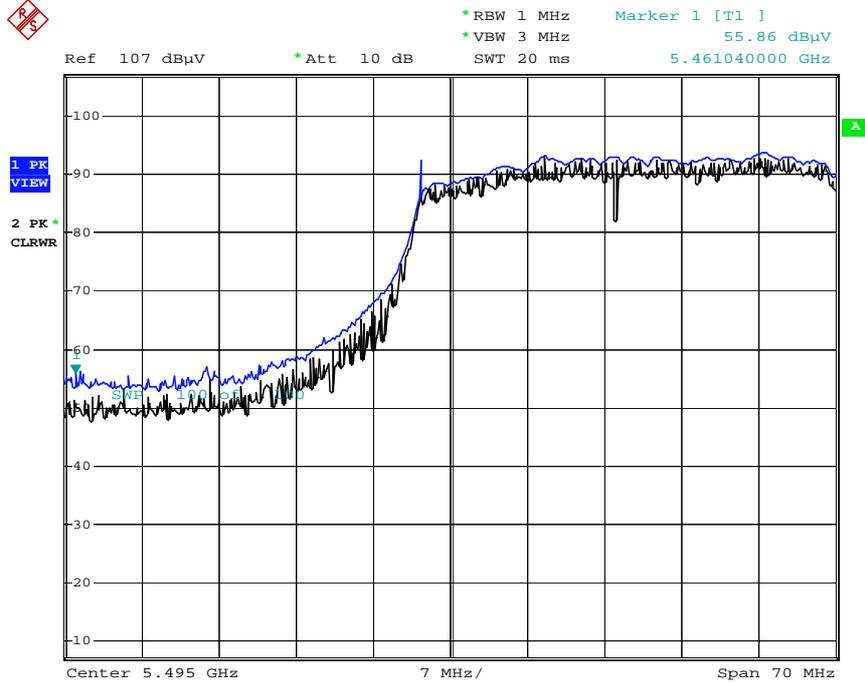
Date: 14.APR.2016 11:59:19

**Radiated Restricted Band Edges plot –Peak Reading (802.11ac\_VHT40, Ch.38, x-H)**



Date: 1.APR.2016 07:34:39

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT80, Ch.106, x-H)**



Date: 1.APR.2016 04:46:57

## 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**

**Conducted Emissions (Line 1)**

Test

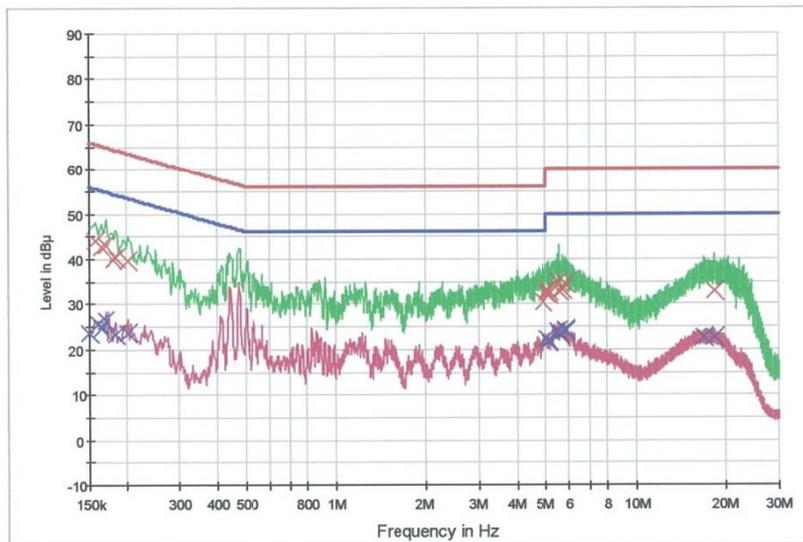
1 / 2

**HCT TEST Report**

**Common Information**

EUT: LG-KS1604  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: WLAN MODE\_ 5G

FCC CLASS B



— FCC CLASS B\_QP     — FCC CLASS B\_AV     — Preview Result 1-PK+  
— Preview Result 2-AVG     x Final Result 1-QPK     x Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.158000	44.1	9.000	Off	N	9.6	21.5	65.6
0.164000	42.6	9.000	Off	N	9.6	22.6	65.3
0.170000	43.1	9.000	Off	N	9.6	21.9	65.0
0.180000	39.9	9.000	Off	N	9.6	24.6	64.5
0.186000	40.3	9.000	Off	N	9.6	23.9	64.2
0.204000	39.6	9.000	Off	N	9.6	23.8	63.4
4.888000	30.3	9.000	Off	N	9.8	25.7	56.0
5.024000	32.6	9.000	Off	N	9.8	27.4	60.0
5.066000	33.2	9.000	Off	N	9.8	26.8	60.0
5.070000	33.2	9.000	Off	N	9.8	26.8	60.0
5.124000	32.9	9.000	Off	N	9.8	27.1	60.0
5.158000	32.1	9.000	Off	N	9.8	27.9	60.0
5.476000	34.7	9.000	Off	N	9.8	25.3	60.0
5.570000	33.0	9.000	Off	N	9.8	27.0	60.0
5.680000	33.0	9.000	Off	N	9.9	27.0	60.0
5.820000	34.5	9.000	Off	N	9.9	25.5	60.0
5.830000	34.5	9.000	Off	N	9.9	25.5	60.0
18.422000	32.9	9.000	Off	N	10.2	27.1	60.0

**Final Result 2**

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Test

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	23.7	9.000	Off	N	9.6	32.3	56.0
0.160000	25.8	9.000	Off	N	9.6	29.6	55.5
0.164000	24.8	9.000	Off	N	9.6	30.5	55.3
0.170000	26.3	9.000	Off	N	9.6	28.7	55.0
0.186000	23.4	9.000	Off	N	9.6	30.8	54.2
0.204000	23.7	9.000	Off	N	9.6	29.7	53.4
5.002000	22.4	9.000	Off	N	9.8	27.6	50.0
5.038000	22.2	9.000	Off	N	9.8	27.8	50.0
5.110000	21.9	9.000	Off	N	9.8	28.1	50.0
5.120000	22.0	9.000	Off	N	9.8	28.0	50.0
5.124000	21.8	9.000	Off	N	9.8	28.2	50.0
5.128000	21.7	9.000	Off	N	9.8	28.3	50.0
5.476000	24.0	9.000	Off	N	9.8	26.0	50.0
5.570000	23.4	9.000	Off	N	9.8	26.6	50.0
5.820000	24.2	9.000	Off	N	9.9	25.8	50.0
5.830000	24.0	9.000	Off	N	9.9	26.0	50.0
16.966000	22.5	9.000	Off	N	10.2	27.5	50.0
18.422000	22.5	9.000	Off	N	10.2	27.5	50.0

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**Conducted Emissions (Line 2)**

Test

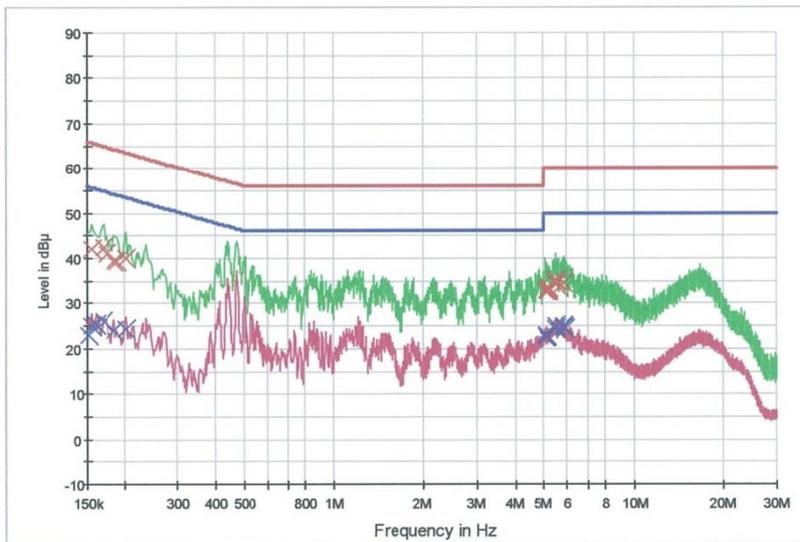
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**HCT TEST Report**

**Common Information**

EUT: LG-KS1604  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: WLAN MODE\_ 5G

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)
0.156000	42.1	9.000	Off	L1	9.6	23.6	65.7
0.170000	42.4	9.000	Off	L1	9.6	22.5	65.0
0.174000	40.9	9.000	Off	L1	9.6	23.9	64.8
0.186000	39.2	9.000	Off	L1	9.6	25.1	64.2
0.190000	39.3	9.000	Off	L1	9.6	24.7	64.0
0.204000	40.1	9.000	Off	L1	9.6	23.4	63.4
5.084000	32.7	9.000	Off	L1	9.9	27.3	60.0
5.140000	32.9	9.000	Off	L1	9.9	27.1	60.0
5.148000	33.3	9.000	Off	L1	9.9	26.7	60.0
5.174000	32.8	9.000	Off	L1	9.9	27.2	60.0
5.180000	33.2	9.000	Off	L1	9.9	26.8	60.0
5.184000	33.5	9.000	Off	L1	9.9	26.5	60.0
5.496000	35.2	9.000	Off	L1	9.9	24.8	60.0
5.512000	34.8	9.000	Off	L1	9.9	25.2	60.0
5.522000	34.9	9.000	Off	L1	9.9	25.1	60.0
5.532000	34.3	9.000	Off	L1	9.9	25.7	60.0
5.606000	33.5	9.000	Off	L1	9.9	26.5	60.0
5.842000	34.5	9.000	Off	L1	9.9	25.5	60.0

**Final Result 2**

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Test

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	23.0	9.000	Off	L1	9.6	32.9	55.9
0.156000	25.0	9.000	Off	L1	9.6	30.6	55.7
0.160000	25.4	9.000	Off	L1	9.6	30.0	55.5
0.170000	26.2	9.000	Off	L1	9.6	28.8	55.0
0.186000	24.2	9.000	Off	L1	9.6	30.0	54.2
0.204000	24.3	9.000	Off	L1	9.6	29.1	53.4
5.084000	22.9	9.000	Off	L1	9.9	27.1	50.0
5.088000	22.8	9.000	Off	L1	9.9	27.2	50.0
5.106000	23.0	9.000	Off	L1	9.9	27.0	50.0
5.140000	22.9	9.000	Off	L1	9.9	27.1	50.0
5.144000	22.8	9.000	Off	L1	9.9	27.2	50.0
5.148000	23.1	9.000	Off	L1	9.9	26.9	50.0
5.496000	25.1	9.000	Off	L1	9.9	24.9	50.0
5.522000	25.1	9.000	Off	L1	9.9	24.9	50.0
5.530000	24.5	9.000	Off	L1	9.9	25.5	50.0
5.842000	24.9	9.000	Off	L1	9.9	25.1	50.0
5.866000	24.7	9.000	Off	L1	9.9	25.3	50.0
5.896000	24.5	9.000	Off	L1	9.9	25.5	50.0

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## 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	12/28/2015	Annual	100073
Rohde & Schwarz	ESCI / TEST RECEIVER	12/28/2015	Annual	100584
Agilent	E4440A/ Spectrum Analyzer	03/18/2016	Annual	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	06/30/2015	Annual	MY51110085
Agilent	N9030A/ SIGNAL ANALYZER	11/24/2015	Annual	MY49431210
Agilent	N1911A/Power Meter	07/09/2015	Annual	MY45100523
Agilent	N1921A /Power Sensor	03/11/2016	Annual	MY52260025
Agilent	87300B/Directional Coupler	11/30/2015	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/15/2015	Annual	5001
Hewlett Packard	E3632A / DC POWER SUPPLY	03/09/2016	Annual	KR75303962
Agilent	8493C / Attenuator(10 dB)	07/23/2015	Annual	07560
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/11/2015	Annual	100422
ESPAC.	SH-642 / Temp & Humidity Chamber	07/23/2015	Annual	93000717

**10.2 LIST OF TEST EQUIPMENT(Radiated Test)**

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	10/10/2014	Biennial	3368
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
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	09/24/2015	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/23/2015	Annual	101068-SZ
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	06/29/2015	Annual	8
Wainwright Instrument	WHKX8-6090-7000-18000-40SS/ High Pass Filter	08/05/2015	Annual	5
Wainwright Instrument	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/16/2016	Annual	2
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	06/15/2015	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	08/20/2015	Annual	76649
Rohde & Schwarz	LOOP ANTENNA	02/23/2016	Biennial	1513-175
CERNEX	CBL26405040 / POWER AMP	07/21/2015	Annual	19660
CERNEX	CBLU1183540 / POWER AMP	07/21/2015	Annual	22964
CERNEX	CBL18265035 / POWER AMP	07/27/2015	Annual	22966
CERNEX	CBL06185030 / POWER AMP	07/21/2015	Annual	22965