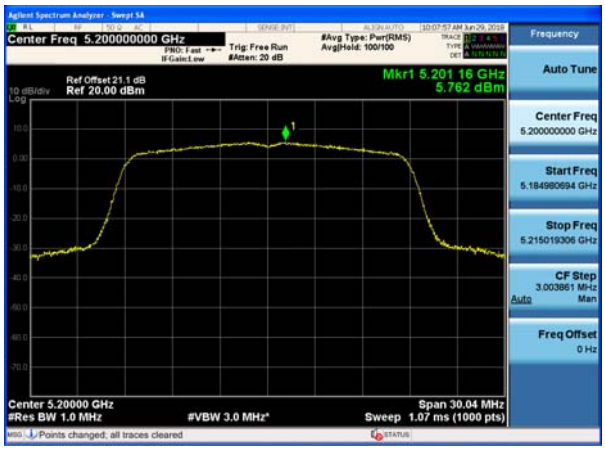
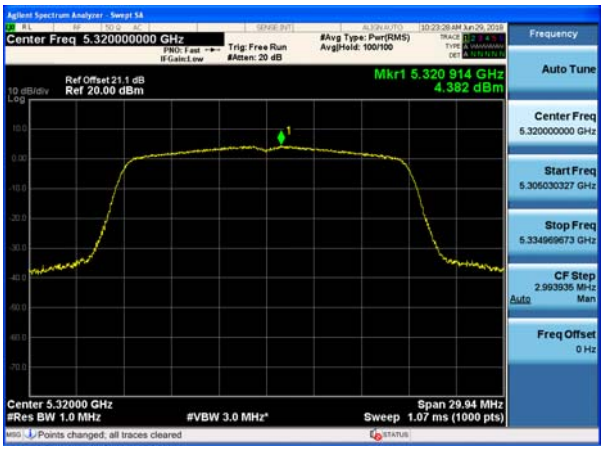
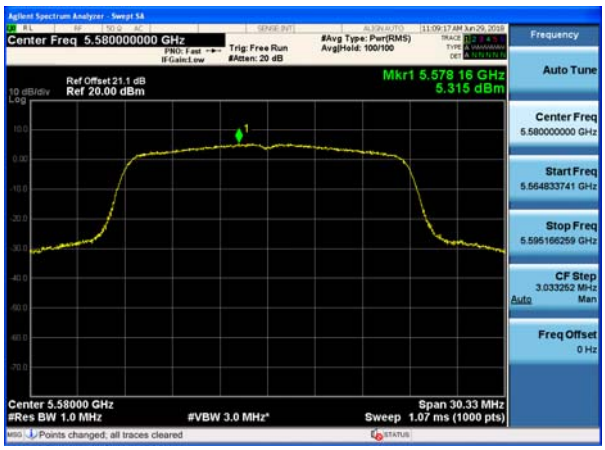
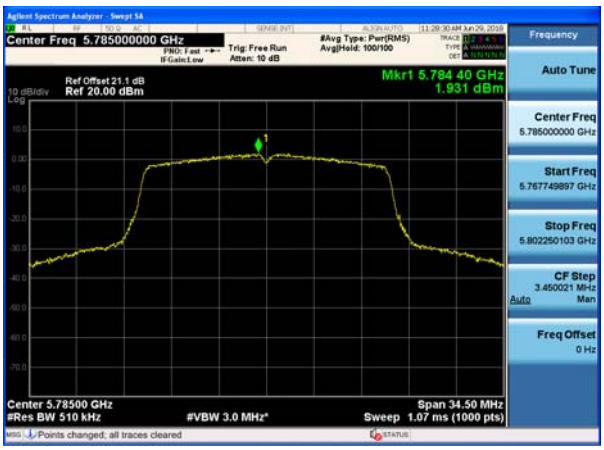
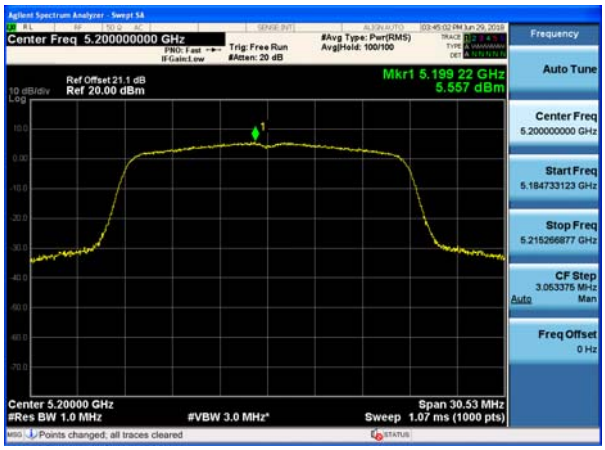
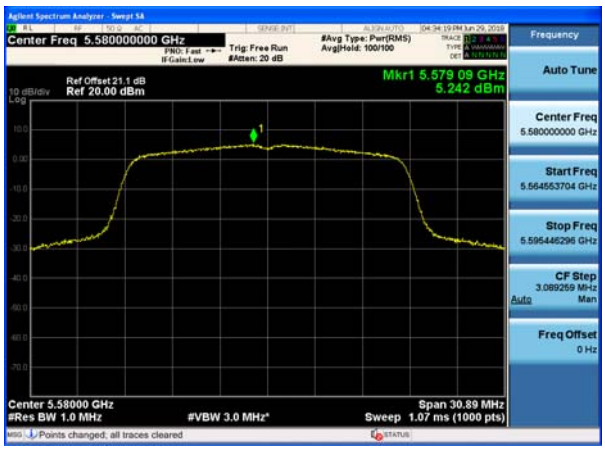
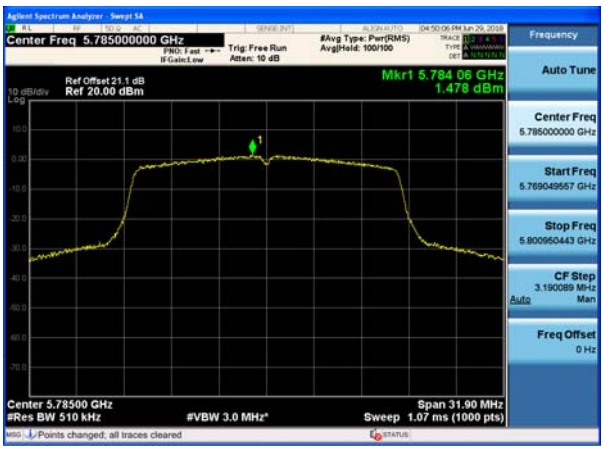
▣ TEST Plot for 802.11n_HT20_Ant.0

802.11n_HT20 UNII 1 BAND PSD CH 40	802.11n_HT20 UNII 2A BAND PSD CH 64
	
802.11n_HT20 UNII 2C BAND PSD CH 116	**802.11n_HT20 UNII 3 BAND PSD CH 157**
	

▣ TEST Plot for 802.11n_HT20_Ant.1

802.11n_HT20 UNII 1 BAND PSD CH 40	802.11n_HT20 UNII 2A BAND PSD CH 64
	
802.11n_HT20 UNII 2C BAND PSD CH 116	**802.11n_HT20 UNII 3 BAND PSD CH 157**
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (SISO)	5.140	-	5.140	11	Pass
5200	40		5.526	-	5.526		Pass
5240	48		5.486	-	5.486		Pass
5260	52		4.038	-	4.038	11	Pass
5300	60		4.475	-	4.475		Pass
5320	64		4.579	-	4.579		Pass
5500	100		4.972	-	4.972	11	Pass
5580	116		5.198	-	5.198		Pass
5720	144		4.669	-	4.669		Pass
5745	149		1.511	-	1.511	30	Pass
5785	157		2.056	-	2.056		Pass
5825	165		-0.300	-	-0.300		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (SISO)	4.903	-	4.903	11	Pass
5200	40		5.584	-	5.584		Pass
5240	48		5.282	-	5.282		Pass
5260	52		4.849	-	4.849	11	Pass
5300	60		4.854	-	4.854		Pass
5320	64		4.852	-	4.852		Pass
5500	100		4.999	-	4.999	11	Pass
5580	116		4.878	-	4.878		Pass
5720	144		4.043	-	4.043		Pass
5745	149		1.366	-	1.366	30	Pass
5785	157		1.380	-	1.380		Pass
5825	165		-0.513	-	-0.513		Pass

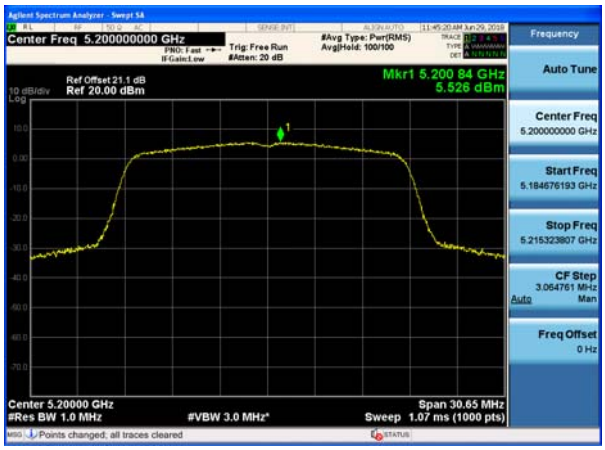
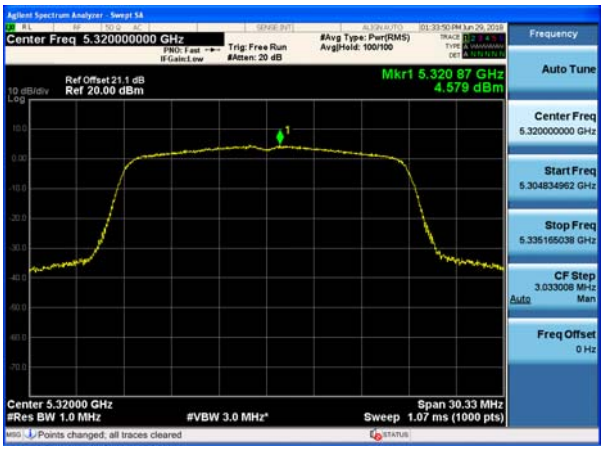
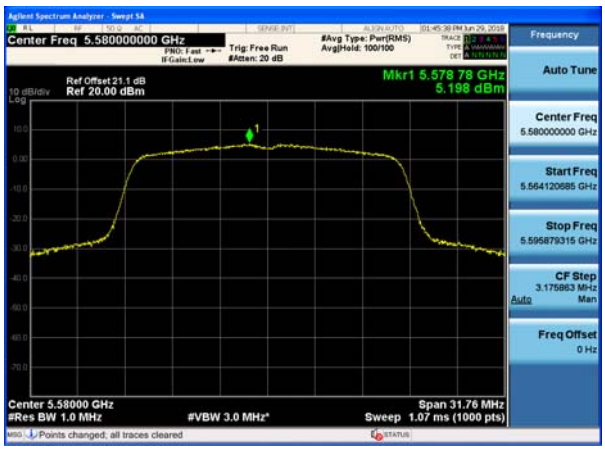
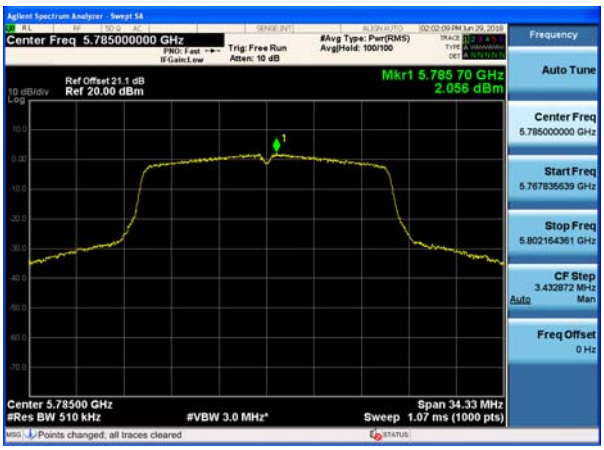
▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (MIMO)	8.03	11	Pass
5200	40		8.57		Pass
5240	48		8.39		Pass
5260	52		7.46	11	Pass
5300	60		7.68		Pass
5320	64		7.73		Pass
5500	100		8.00	11	Pass
5580	116		8.05		Pass
5720	144		7.37		Pass
5745	149		4.45	30	Pass
5785	157		4.73		Pass
5825	165		2.60		Pass

▣ TEST Plot for 802.11ac_VHT20_Ant.0

802.11ac_VHT20 UNII 1 BAND PSD CH 40	802.11ac_VHT20 UNII 2A BAND PSD CH 64
	
802.11ac_VHT20 UNII 2C BAND PSD CH 116	**802.11ac_VHT20 UNII 3 BAND PSD CH 157**
	

▣ TEST Plot for 802.11ac_VHT20_Ant.1

802.11ac_VHT20 UNII 1 BAND PSD CH 40	802.11ac_VHT20 UNII 2A BAND PSD CH 60
	
802.11ac_VHT20 UNII 2C BAND PSD CH 100	**802.11ac_VHT20 UNII 3 BAND PSD CH 157**
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40 (SISO)	-2.480	-	-2.480	11	Pass
5230	46		1.792	-	1.792		Pass
5270	54		0.877	-	0.877	11	Pass
5310	62		-2.937	-	-2.937		Pass
5510	102		-1.106	-	-1.106	11	Pass
5500	110		1.797	-	1.797		Pass
5710	142		1.564	-	1.564		Pass
5755	151		-0.997	-	-0.997	30	Pass
5795	159		-1.746	-	-1.746		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40 (SISO)	-2.335	-	-2.335	11	Pass
5230	46		1.901	-	1.901		Pass
5270	54		1.133	-	1.133	11	Pass
5310	62		-2.467	-	-2.467		Pass
5510	102		-0.268	-	-0.268	11	Pass
5500	110		2.346	-	2.346		Pass
5710	142		0.967	-	0.967		Pass
5755	151		-1.114	-	-1.114	30	Pass
5795	159		-1.887	-	-1.887		Pass

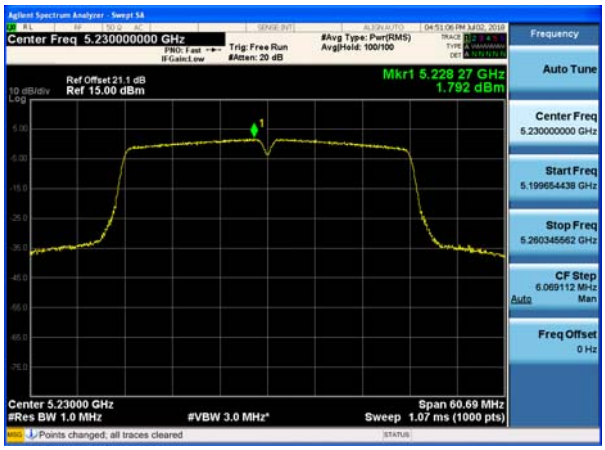
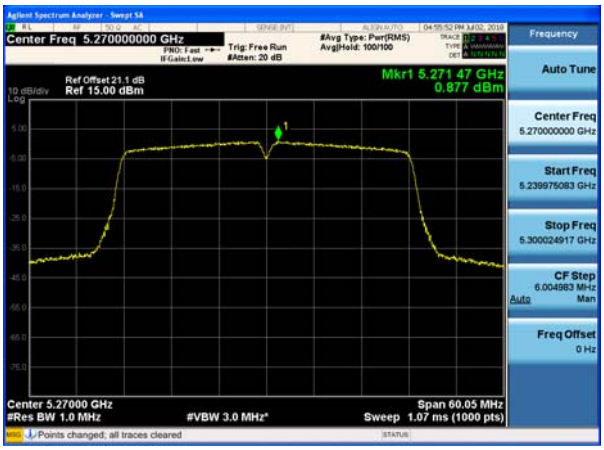
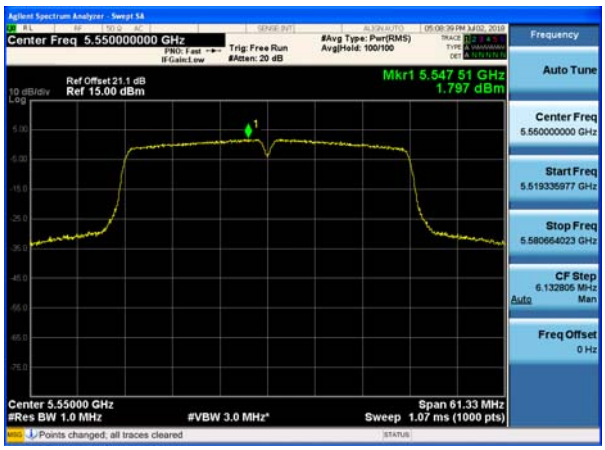
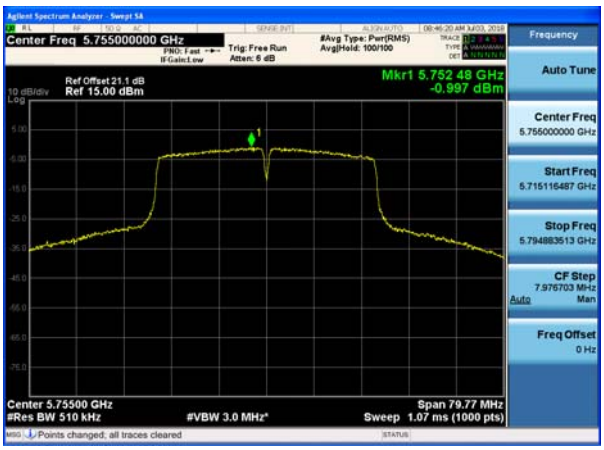
▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

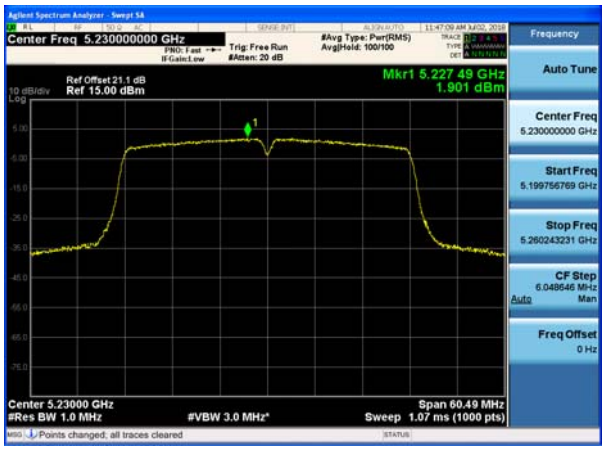
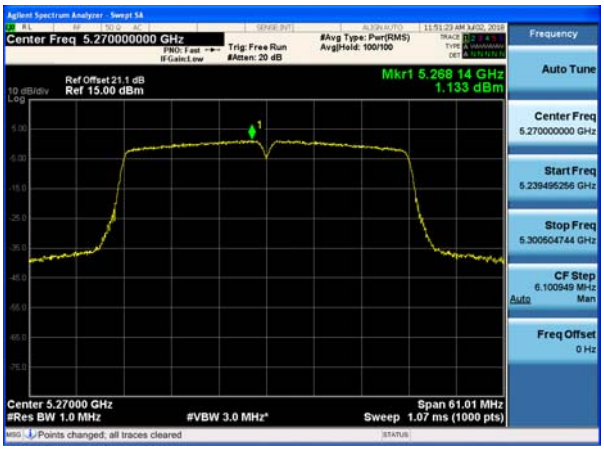
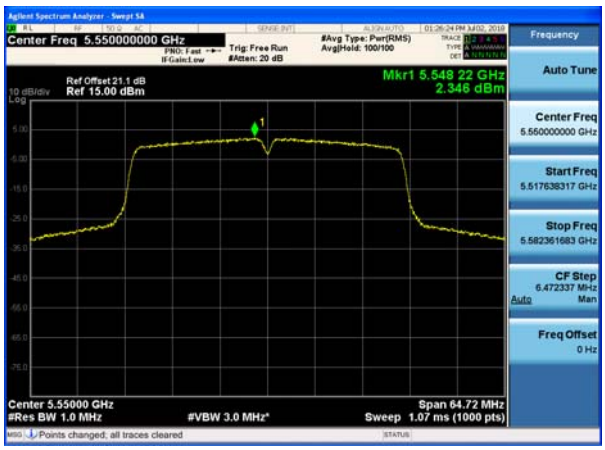
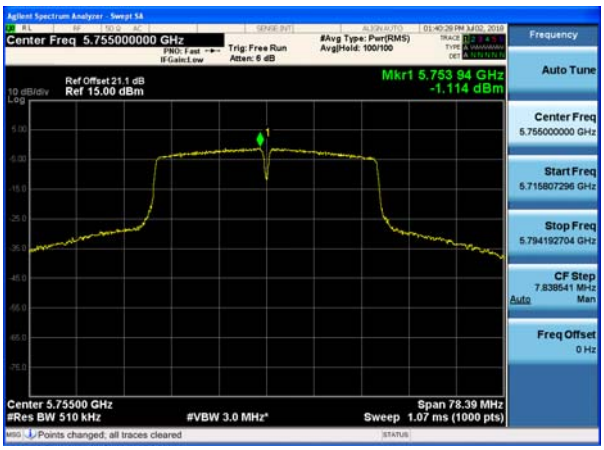
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11n _HT40 (MIMO)	0.60	11	Pass
5230	46		4.86		Pass
5270	54		4.02	11	Pass
5310	62		0.31		Pass
5510	102		2.33	11	Pass
5550	110		5.09		Pass
5710	142		4.28		Pass
5755	151		1.95	30	Pass
5795	159		1.19		Pass

▣ TEST Plot for 802.11n_HT40_Ant.0

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 110	**802.11n_HT40 UNII 3 BAND PSD CH 151**
	

▣ TEST Plot for 802.11n_HT40_Ant.1

802.11n_HT40 UNII 1 BAND PSD CH 46	802.11n_HT40 UNII 2A BAND PSD CH 54
	
802.11n_HT40 UNII 2C BAND PSD CH 110	**802.11n_HT40 UNII 3 BAND PSD CH 151**
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-2.456	-	-2.456	11	Pass
5230	46		1.657	-	1.657		Pass
5270	54		0.929	-	0.929	11	Pass
5310	62		-3.343	-	-3.343		Pass
5510	102		-1.065	-	-1.065	11	Pass
5500	110		2.222	-	2.222		Pass
5710	142		1.818	-	1.818		Pass
5755	151		-0.938	-	-0.938	30	Pass
5795	159		-0.941	-	-0.941		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	-2.393	-	-2.393	11	Pass
5230	46		2.224	-	2.224		Pass
5270	54		2.071	-	2.071	11	Pass
5310	62		-2.498	-	-2.498		Pass
5510	102		-0.140	-	-0.140	11	Pass
5500	110		2.017	-	2.017		Pass
5710	142		1.361	-	1.361		Pass
5755	151		-1.200	-	-1.200	30	Pass
5795	159		-1.989	-	-1.989		Pass

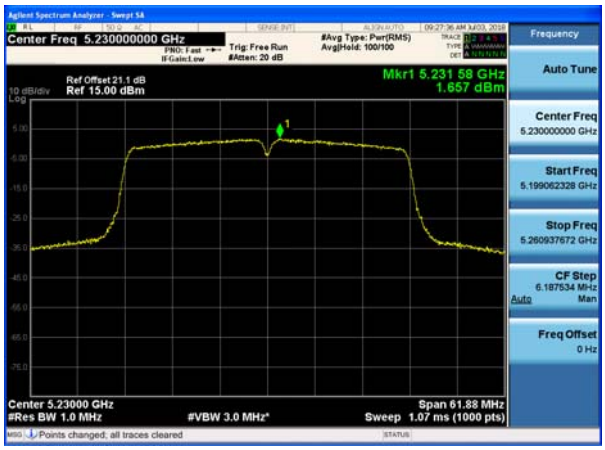
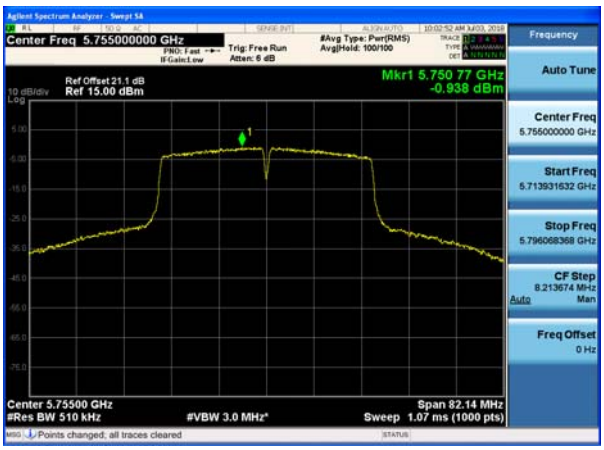
▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

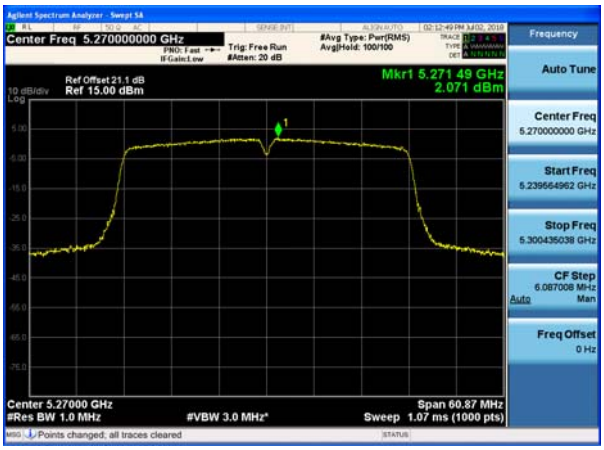
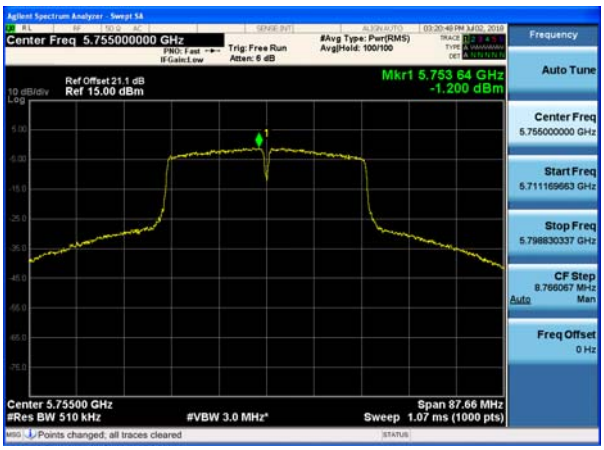
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5190	38	802.11ac _VHT40	0.59	11	Pass
5230	46		4.96		Pass
5270	54		4.53	11	Pass
5310	62		0.10		Pass
5510	102		2.42	11	Pass
5550	110		5.13		Pass
5710	142		4.60		Pass
5755	151		1.94	30	Pass
5795	159		1.56		Pass

▣ TEST Plot for 802.11ac_VHT40_Ant.0

802.11ac_VHT40 UNII 1 BAND PSD CH 46	802.11ac_VHT40 UNII 2A BAND PSD CH 54
	
802.11ac_VHT40 UNII 2C BAND PSD CH 110	**802.11ac_VHT40 UNII 3 BAND PSD CH 151**
	

▣ TEST Plot for 802.11ac_VHT40_Ant.1

802.11ac_VHT40 UNII 1 BAND PSD CH 46	802.11ac_VHT40 UNII 2A BAND PSD CH 54
	
802.11ac_VHT40 UNII 2C BAND PSD CH 110	**802.11ac_VHT40 UNII 3 BAND PSD CH 151**
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-3.729	-	-3.729	11	Pass
5290	58		-2.679	-	-2.679	11	Pass
5530	106		-4.910	-	-4.910	11	Pass
5690	138		-1.048	-	-1.048		Pass
5775	155		-5.036	-	-5.036	30	Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-3.997	-	-3.997	11	Pass
5290	58		-2.446	-	-2.446	11	Pass
5530	106		-5.259	-	-5.259	11	Pass
5690	138		-1.199	-	-1.199		Pass
5775	155		-5.579	-	-5.579	30	Pass

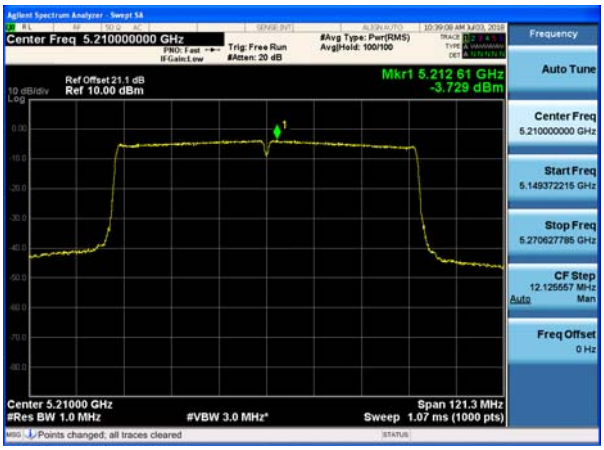
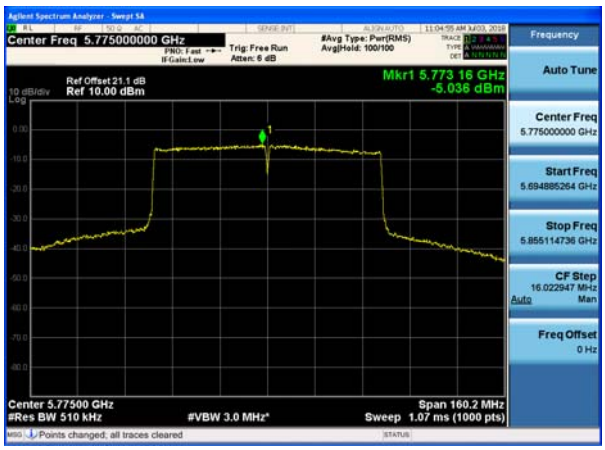
▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

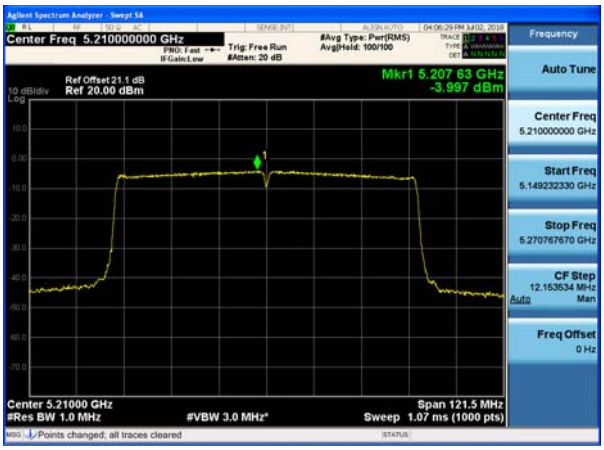
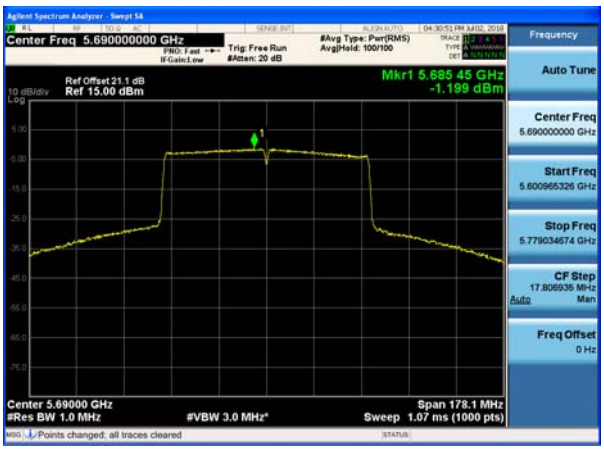
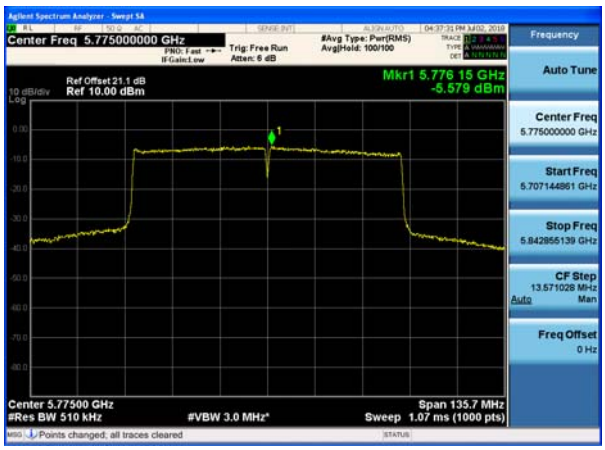
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5210	42	802.11ac _VHT80	-0.85	11	Pass
5290	58		0.45	11	Pass
5530	106		-2.07	11	Pass
5690	138		1.89		Pass
5775	155		-2.29	30	Pass

▣ TEST Plot for 802.11ac_VHT80_Ant.0

802.11ac_VHT80 UNII 1 BAND PSD CH 42	802.11ac_VHT80 UNII 2A BAND PSD CH 58
	
802.11ac_VHT80 UNII 2C BAND PSD CH 138	**802.11ac_VHT80 UNII 3 BAND PSD CH 155**
	

▣ TEST Plot for 802.11ac_VHT80_Ant.1

802.11ac_VHT80 UNII 1 BAND PSD CH 42	802.11ac_VHT80 UNII 2A BAND PSD CH 58
	
802.11ac_VHT80 UNII 2C BAND PSD CH 138	**802.11ac_VHT80 UNII 3 BAND PSD CH 155**
	

▣Straddle channels TEST RESULTS for 802.11a/n_HT20/ac_VHT20_Ant 0

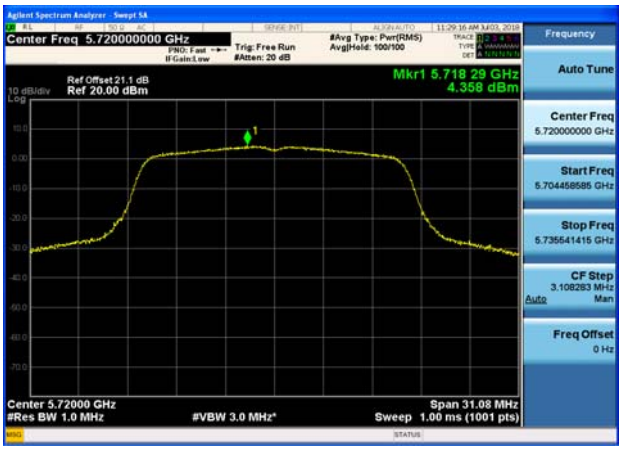
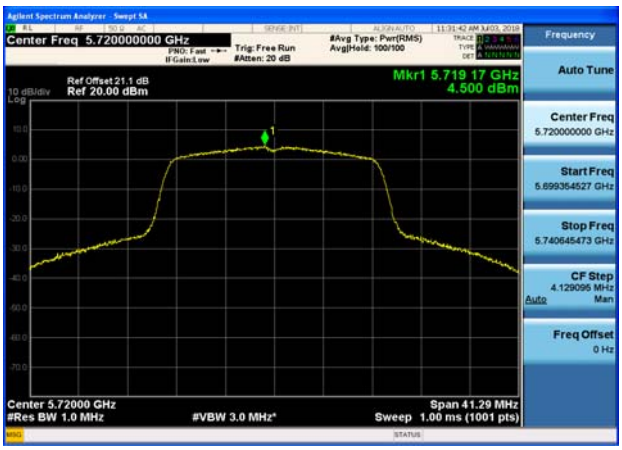
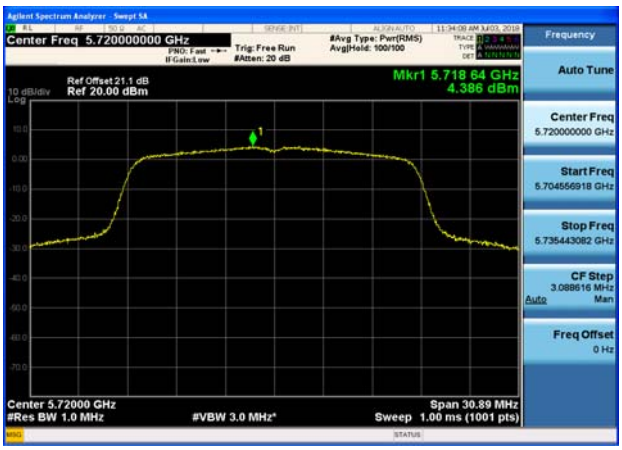
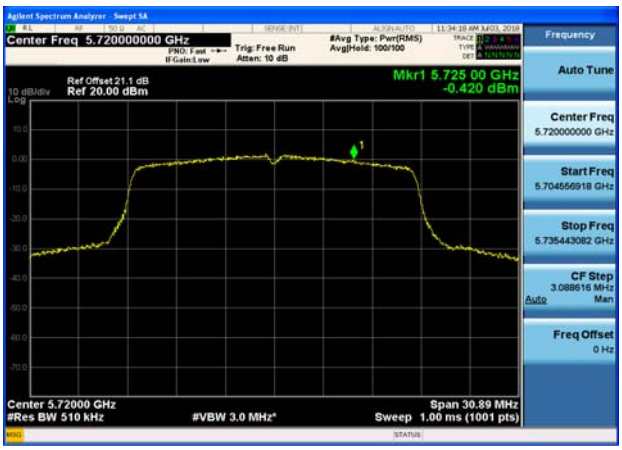
Conducted Power Density Measurements (UNII 2C Band 5720MHz)

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
5720	144	802.11a	4.358	-	4.358	11.00	Pass
		802.11n	4.500	-	4.500	11.00	Pass
		802.11ac	4.386	-	4.386	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5720MHz)

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
5720	144	802.11a	-0.716	-	-0.716	30.00	Pass
		802.11n	-0.585	-	-0.585	30.00	Pass
		802.11ac	-0.420	-	-0.420	30.00	Pass

▣Straddle channels TEST Plot for 802.11a/n_HT20/ac_VHT20_Ant 0

802.11a UNII 2C Band PSD CH.144	802.11a UNII 3 Band PSD CH.144
	
802.11n_HT20 UNII 2C Band PSD CH.144	**802.11n_HT20 UNII 3 Band PSD CH.144**
	
802.11ac_VHT20 UNII 2C Band PSD CH.144	**802.11ac_VHT20 UNII 3 Band PSD CH.144**
	

▣Straddle channels TEST RESULTS for 802.11a/n_HT20/ac_VHT20_Ant 1

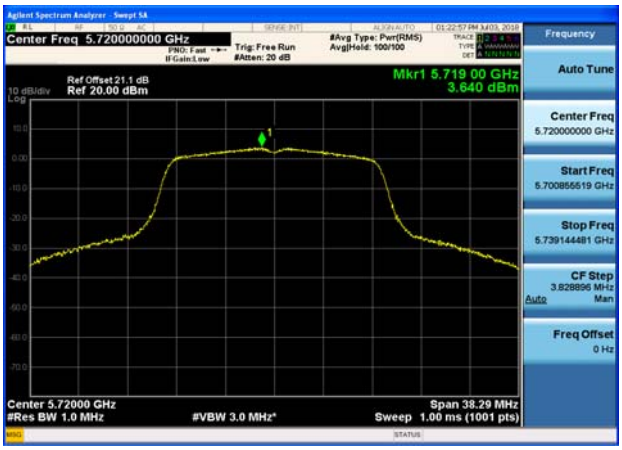
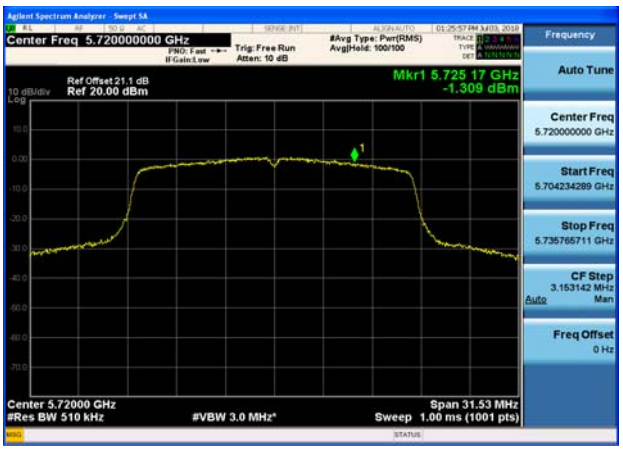
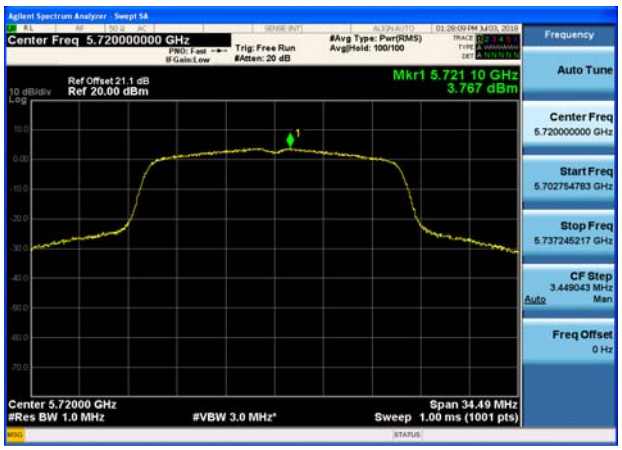
Conducted Power Density Measurements (UNII 2C Band 5720MHz)

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
5720	144	802.11a	3.640	-	3.640	11.00	Pass
		802.11n	3.843	-	3.843	11.00	Pass
		802.11ac	3.767	-	3.767	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5720MHz)

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
5720	144	802.11a	-1.351	-	-1.351	30.00	Pass
		802.11n	-1.309	-	-1.309	30.00	Pass
		802.11ac	-1.277	-	-1.277	30.00	Pass

▣Straddle channels TEST Plot for 802.11a/n_HT20/ac_VHT20_Ant 1

802.11a UNII 2C Band PSD CH.144	802.11a UNII 3 Band PSD CH.144
	
802.11n_HT20 UNII 2C Band PSD CH.144	**802.11n_HT20 UNII 3 Band PSD CH.144**
	
802.11ac_VHT20 UNII 2C Band PSD CH.144	**802.11ac_VHT20 UNII 3 Band PSD CH.144**
	

▣Straddle channels

TEST RESULTS for 802.11a/n_HT20/ac_VHT20_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Power Density Measurements (UNII 2C Band 5720MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5720	144	802.11a	7.02	11.00	Pass
		802.11n	7.19	11.00	Pass
		802.11ac	7.09	11.00	Pass

TEST RESULTS for 802.11a/n_HT20/ac_VHT20_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Power Density Measurements (UNII 3 Band 5720MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5720	144	802.11a	1.98	30.00	Pass
		802.11n	2.07	30.00	Pass
		802.11ac	2.17	30.00	Pass

▣Straddle channels TEST RESULTS for 802.11n_HT40/ac_VHT40_Ant 0

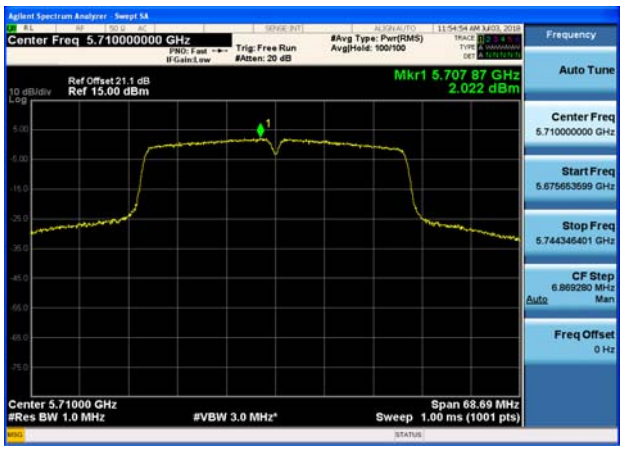
Conducted Power Density Measurements (UNII 2C Band 5710MHz)

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
5710	142	802.11n	1.264	-	1.264	11.00	Pass
		802.11ac	2.022	-	2.022	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5710MHz)

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
5710	142	802.11n	-4.678	-	-4.678	30.00	Pass
		802.11ac	-3.875	-	-3.875	30.00	Pass

▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 0

802.11n_HT40 UNII 2C Band PSD CH.142	802.11n_HT40 UNII 3 Band PSD CH.142
	
802.11ac_VHT40 UNII 2C Band PSD CH.142	**802.11ac_VHT40 UNII 3 Band PSD CH.142**
	

▣Straddle channels TEST RESULTS for 802.11n_HT40/ac_VHT40_Ant 1

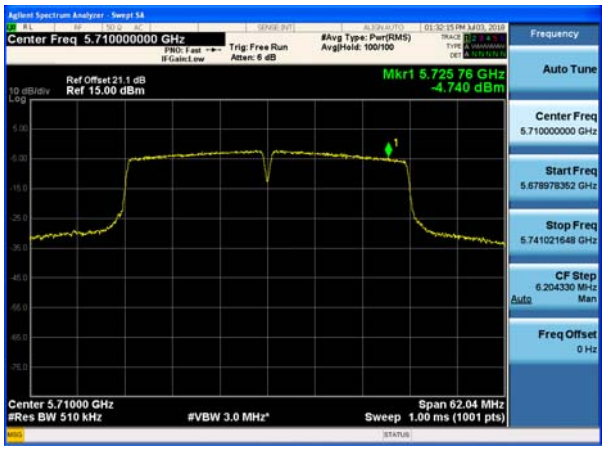
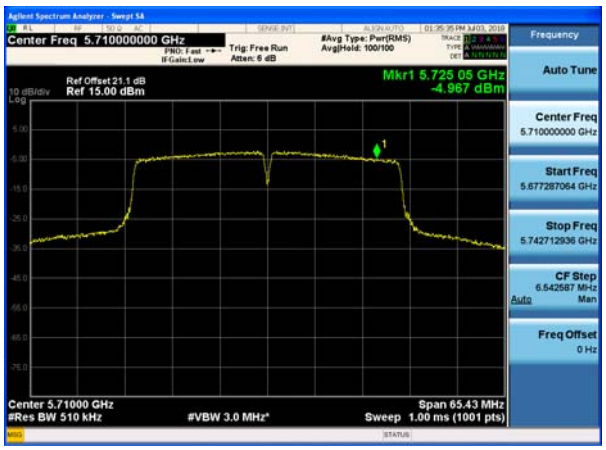
Conducted Power Density Measurements (UNII 2C Band 5710MHz)

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
5710	142	802.11n	0.887	-	0.887	11.00	Pass
		802.11ac	0.725	-	0.725	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5710MHz)

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
5710	142	802.11n	-4.720	-	-4.720	30.00	Pass
		802.11ac	-4.967	-	-4.967	30.00	Pass

▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 1

802.11n_HT40 UNII 2C Band PSD CH.142	802.11n_HT40 UNII 3 Band PSD CH.142
	
802.11ac_VHT40 UNII 2C Band PSD CH.142	**802.11ac_VHT40 UNII 3 Band PSD CH.142**
	

▣Straddle channels

TEST RESULTS for 802.11n_HT40/ac_VHT40_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Power Density Measurements (UNII 2C Band 5710MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5710	142	802.11n	4.09	11.00	Pass
		802.11ac	4.41	11.00	Pass

TEST RESULTS for 802.11n_HT40/ac_VHT40_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Power Density Measurements (UNII 3 Band 5710MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5710	142	802.11n	-1.69	30.00	Pass
		802.11ac	-1.39	30.00	Pass

▣Straddle channels TEST RESULTS_Ant 0

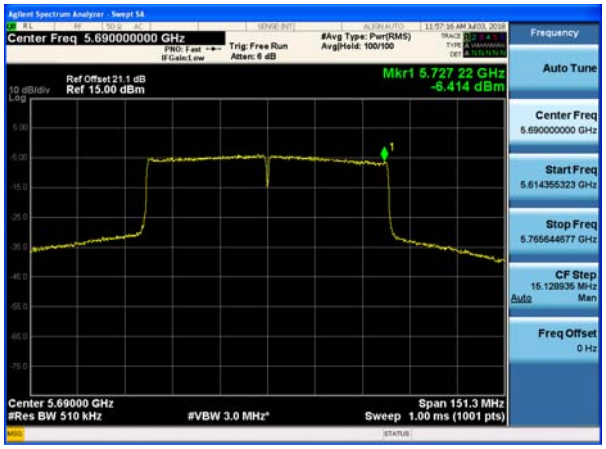
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

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
5690	138	802.11ac	-0.986	-	-0.986	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5690MHz)

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
5690	138	802.11ac	-6.414	-	-6.414	30.00	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 0

802.11ac_VHT80 UNII 2C Band PSD CH.138	802.11ac_VHT80 UNII 3 Band PSD CH.138
	

▣Straddle channels TEST RESULTS_Ant 1

Conducted Power Density Measurements (UNII 2C Band 5690MHz)

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
5690	138	802.11ac	-1.645	-	-1.645	11.00	Pass

Conducted Power Density Measurements (UNII 3 Band 5690MHz)

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
5690	138	802.11ac	-6.958	-	-6.958	30.00	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 1

802.11ac_VHT80 UNII 2C Band PSD CH.138	802.11ac_VHT80 UNII 3 Band PSD CH.138
	

▣Straddle channels

TEST RESULTS for 802.11ac_VHT80_Sum Data of Ant.0 and Ant.1 (UNII 2C)

Conducted Power Density Measurements (UNII 2C Band 5690MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5690	138	802.11ac	1.70	11.00	Pass

TEST RESULTS for 802.11ac_VHT80_Sum Data of Ant.0 and Ant.1 (UNII 3)

Conducted Power Density Measurements (UNII 3 Band 5690MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5690	138	802.11ac	-3.67	30.00	Pass

9.7 POWER SPECTRAL DENSITY FOR ISED

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

▣ **Limit**

Power Spectral Density

Band	Mode	Limit
UNII 1	802.11a,n,ac	10 dBm/MHz (e.i.r.p)

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

Power Spectral Density

Operating Mode	Band	Mode	Operating Ant.	Ant. Gain (dBi)	Limit (e.i.r.p)
SISO	UNII 1	802.11a/n/ac	Ant 0	1.48	8.52 dBm/MHz
			Ant 1	1.5	8.50 dBm/MHz
MIMO	UNII 1		Ant 0 & 1	4.50	5.49 dBm/MHz

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

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

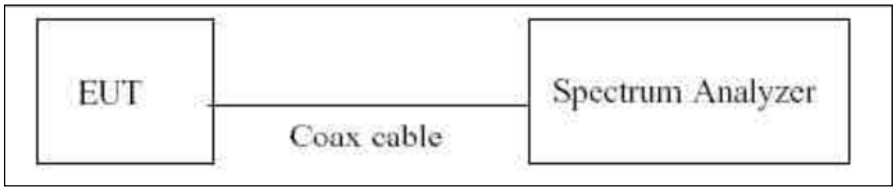
(according to KDB662911 D01 v02r01)

2. Limit is calculated by antenna gain.

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

∗ All bands have the same PSD value as FCC except for the UNII 1 band.

▣ TEST CONFIGURATION



▣ TEST PROCEDURE

We tested according to Method in KDB 789033 D02 v02r01.

The spectrum analyzer is set to :

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

▣ SAMPLE CALCULATION

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

Ex) PSD = -3 dBm + 10 dB + 0.8 dB + 0.2 dB = 8.0 dBm

Note :

1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the 5.2 GHz, 5.3 GHz and 5.6 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1, 3	21.1

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

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a (SISO)	2.308	-	2.308	8.52	Pass
5200	40		2.482	-	2.482		Pass
5240	48		2.456	-	2.456		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11a (SISO)	2.440	-	2.440	8.50	Pass
5200	40		2.377	-	2.377		Pass
5240	48		2.348	-	2.348		Pass

▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11a (MIMO)	5.38	5.49	Pass
5200	40		5.44		Pass
5240	48		5.41		Pass

▣ **TEST Plot for 802.11a 20MHz BW**

802.11a UNII 1 BAND PSD CH 40_Ant.0	802.11a UNII 1 BAND PSD CH 36_Ant.1
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20 (SISO)	2.338	-	2.338	8.52	Pass
5200	40		2.466	-	2.466		Pass
5240	48		2.288	-	2.288		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20 (SISO)	2.102	-	2.102	8.50	Pass
5200	40		2.271	-	2.271		Pass
5240	48		2.041	-	2.041		Pass

▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11n_ HT20 (MIMO)	5.23	5.49	Pass
5200	40		5.38		Pass
5240	48		5.18		Pass

▣ **TEST Plot for 802.11n_HT20**

802.11n_HT20 UNII 1 BAND PSD CH 40_Ant.0	802.11n_HT20 UNII 1 BAND PSD CH 40_Ant.1
	

Ant.0

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (SISO)	2.503	-	2.503	8.52	Pass
5200	40		2.517	-	2.517		Pass
5240	48		2.507	-	2.507		Pass

Ant.1

▣ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (SISO)	2.059	-	2.059	8.50	Pass
5200	40		2.240	-	2.240		Pass
5240	48		2.073	-	2.073		Pass

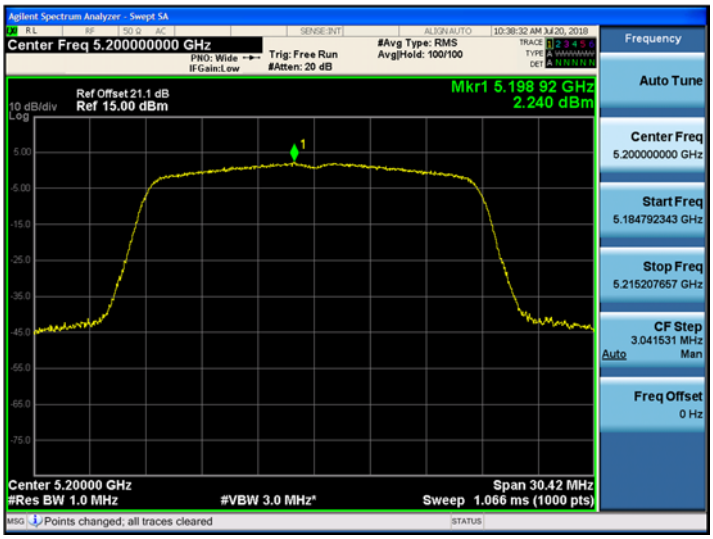
▣ **Sum Data of Ant.0 and Ant.1**

▣ **TEST RESULTS**

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5180	36	802.11ac _VHT20 (MIMO)	5.29	5.49	Pass
5200	40		5.39		Pass
5240	48		5.30		Pass

▣ **TEST Plot for 802.11ac_VHT20**

802.11ac_VHT20 UNII 1 BAND PSD CH 40_Ant.0	802.11ac_VHT20 UNII 1 BAND PSD CH 40_Ant.1
	

9.8 FREQUENCY STABILITY

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

[Ant.0]

20 MHz BW_ Startup

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,180,000,000 Hz
CHANNEL: 36
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180022.31	22.31
100%		-30	5180027.07	27.07
100%		-20	5180031.76	31.76
100%		-10	5180036.02	36.02
100%		0	5180040.54	40.54
100%		+10	5180048.29	48.29
100%		+30	5180052.41	52.41
100%		+40	5180056.10	56.10
100%		+50	5180040.74	40.74
Max.	3.465	+20	5180035.05	35.05
Min.	3.135	+20	5180043.43	43.43

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260026.03	26.03
100%		-30	5260030.30	30.30
100%		-20	5260034.17	34.17
100%		-10	5260037.56	37.56
100%		0	5260041.01	41.01
100%		+10	5260048.25	48.25
100%		+30	5260052.56	52.56
100%		+40	5260057.07	57.07
100%		+50	5260041.61	41.61
Max.	3.465	+20	5260037.42	37.42
Min.	3.135	+20	5260045.12	45.12

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500024.11	24.11
100%		-30	5500027.85	27.85
100%		-20	5500031.61	31.61
100%		-10	5500035.97	35.97
100%		0	5500040.63	40.63
100%		+10	5500049.70	49.70
100%		+30	5500053.33	53.33
100%		+40	5500058.00	58.00
100%		+50	5500040.64	40.64
Max.	3.465	+20	5500036.31	36.31
Min.	3.135	+20	5500044.30	44.30

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745025.15	25.15
100%		-30	5745028.95	28.95
100%		-20	5745032.51	32.51
100%		-10	5745036.28	36.28
100%		0	5745040.94	40.94
100%		+10	5745049.63	49.63
100%		+30	5745053.12	53.12
100%		+40	5745058.20	58.20
100%		+50	5745041.23	41.23
Max.	3.465	+20	5745037.14	37.14
Min.	3.135	+20	5745044.40	44.40

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.

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180023.55	23.55
100%		-30	5180028.51	28.51
100%		-20	5180032.72	32.72
100%		-10	5180036.51	36.51
100%		0	5180040.60	40.60
100%		+10	5180049.85	49.85
100%		+30	5180053.02	53.02
100%		+40	5180057.63	57.63
100%		+50	5180041.21	41.21
Max.	3.465	+20	5180037.57	37.57
Min.	3.135	+20	5180044.53	44.53

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260023.09	23.09
100%		-30	5260027.68	27.68
100%		-20	5260032.65	32.65
100%		-10	5260036.73	36.73
100%		0	5260041.25	41.25
100%		+10	5260049.46	49.46
100%		+30	5260053.27	53.27
100%		+40	5260057.20	57.20
100%		+50	5260040.92	40.92
Max.	3.465	+20	5260037.11	37.11
Min.	3.135	+20	5260045.00	45.00

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500022.97	22.97
100%		-30	5500028.03	28.03
100%		-20	5500032.50	32.50
100%		-10	5500036.33	36.33
100%		0	5500041.11	41.11
100%		+10	5500048.46	48.46
100%		+30	5500052.95	52.95
100%		+40	5500056.95	56.95
100%		+50	5500041.17	41.17
Max.	3.465	+20	5500035.96	35.96
Min.	3.135	+20	5500044.28	44.28

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745025.07	25.07
100%		-30	5745029.39	29.39
100%		-20	5745032.67	32.67
100%		-10	5745036.95	36.95
100%		0	5745041.72	41.72
100%		+10	5745048.92	48.92
100%		+30	5745052.24	52.24
100%		+40	5745056.83	56.83
100%		+50	5745040.72	40.72
Max.	3.465	+20	5745036.59	36.59
Min.	3.135	+20	5745044.19	44.19

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.

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180025.79	25.79
100%		-30	5180029.05	29.05
100%		-20	5180033.93	33.93
100%		-10	5180037.81	37.81
100%		0	5180041.28	41.28
100%		+10	5180049.60	49.60
100%		+30	5180052.81	52.81
100%		+40	5180056.34	56.34
100%		+50	5180041.12	41.12
Max.	3.465	+20	5180038.53	38.53
Min.	3.135	+20	5180045.62	45.62

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260025.58	25.58
100%		-30	5260029.58	29.58
100%		-20	5260034.60	34.60
100%		-10	5260037.76	37.76
100%		0	5260040.88	40.88
100%		+10	5260048.81	48.81
100%		+30	5260053.73	53.73
100%		+40	5260057.47	57.47
100%		+50	5260041.84	41.84
Max.	3.465	+20	5260038.41	38.41
Min.	3.135	+20	5260046.49	46.49

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500027.38	27.38
100%		-30	5500030.65	30.65
100%		-20	5500033.90	33.90
100%		-10	5500038.26	38.26
100%		0	5500041.77	41.77
100%		+10	5500048.56	48.56
100%		+30	5500051.85	51.85
100%		+40	5500054.98	54.98
100%		+50	5500040.64	40.64
Max.	3.465	+20	5500037.46	37.46
Min.	3.135	+20	5500045.11	45.11

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 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745021.93	21.93
100%		-30	5745026.32	26.32
100%		-20	5745030.67	30.67
100%		-10	5745035.53	35.53
100%		0	5745039.97	39.97
100%		+10	5745049.06	49.06
100%		+30	5745052.40	52.40
100%		+40	5745056.90	56.90
100%		+50	5745040.14	40.14
Max.	3.465	+20	5745034.73	34.73
Min.	3.135	+20	5745042.93	42.93

Note:

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

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180022.67	22.67
100%		-30	5180027.37	27.37
100%		-20	5180032.32	32.32
100%		-10	5180036.99	36.99
100%		0	5180040.69	40.69
100%		+10	5180049.09	49.09
100%		+30	5180052.21	52.21
100%		+40	5180056.57	56.57
100%		+50	5180040.33	40.33
Max.	3.465	+20	5180036.41	36.41
Min.	3.135	+20	5180044.20	44.20

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260023.71	23.71
100%		-30	5260027.58	27.58
100%		-20	5260032.60	32.60
100%		-10	5260037.70	37.70
100%		0	5260041.30	41.30
100%		+10	5260049.82	49.82
100%		+30	5260053.46	53.46
100%		+40	5260057.94	57.94
100%		+50	5260039.90	39.90
Max.	3.465	+20	5260037.42	37.42
Min.	3.135	+20	5260046.16	46.16

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500022.78	22.78
100%		-30	5500026.59	26.59
100%		-20	5500031.59	31.59
100%		-10	5500036.28	36.28
100%		0	5500040.31	40.31
100%		+10	5500049.64	49.64
100%		+30	5500053.58	53.58
100%		+40	5500057.82	57.82
100%		+50	5500040.31	40.31
Max.	3.465	+20	5500036.23	36.23
Min.	3.135	+20	5500044.86	44.86

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745021.41	21.41
100%		-30	5745025.69	25.69
100%		-20	5745030.64	30.64
100%		-10	5745035.67	35.67
100%		0	5745040.21	40.21
100%		+10	5745048.63	48.63
100%		+30	5745052.18	52.18
100%		+40	5745055.95	55.95
100%		+50	5745039.97	39.97
Max.	3.465	+20	5745034.27	34.27
Min.	3.135	+20	5745042.85	42.85

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_ Startup

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190024.36	24.36
100%		-30	5190028.78	28.78
100%		-20	5190032.72	32.72
100%		-10	5190036.96	36.96
100%		0	5190041.09	41.09
100%		+10	5190049.96	49.96
100%		+30	5190053.68	53.68
100%		+40	5190056.96	56.96
100%		+50	5190040.76	40.76
Max.	3.465	+20	5190037.68	37.68
Min.	3.135	+20	5190045.64	45.64

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270025.56	25.56
100%		-30	5270029.15	29.15
100%		-20	5270032.49	32.49
100%		-10	5270036.57	36.57
100%		0	5270040.45	40.45
100%		+10	5270049.60	49.60
100%		+30	5270052.97	52.97
100%		+40	5270057.76	57.76
100%		+50	5270040.92	40.92
Max.	3.465	+20	5270037.09	37.09
Min.	3.135	+20	5270044.54	44.54

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510026.88	26.88
100%		-30	5510030.60	30.60
100%		-20	5510034.16	34.16
100%		-10	5510037.53	37.53
100%		0	5510041.11	41.11
100%		+10	5510048.94	48.94
100%		+30	5510052.11	52.11
100%		+40	5510055.64	55.64
100%		+50	5510041.63	41.63
Max.	3.465	+20	5510038.10	38.10
Min.	3.135	+20	5510044.64	44.64

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755024.10	24.10
100%		-30	5755027.47	27.47
100%		-20	5755031.08	31.08
100%		-10	5755036.09	36.09
100%		0	5755040.03	40.03
100%		+10	5755048.28	48.28
100%		+30	5755052.79	52.79
100%		+40	5755056.17	56.17
100%		+50	5755039.99	39.99
Max.	3.465	+20	5755034.36	34.36
Min.	3.135	+20	5755043.88	43.88

Note:

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

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190023.52	23.52
100%		-30	5190028.00	28.00
100%		-20	5190031.68	31.68
100%		-10	5190036.47	36.47
100%		0	5190040.41	40.41
100%		+10	5190049.95	49.95
100%		+30	5190053.54	53.54
100%		+40	5190058.02	58.02
100%		+50	5190040.21	40.21
Max.	3.465	+20	5190036.63	36.63
Min.	3.135	+20	5190045.01	45.01

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270023.52	23.52
100%		-30	5270028.00	28.00
100%		-20	5270031.68	31.68
100%		-10	5270036.47	36.47
100%		0	5270040.41	40.41
100%		+10	5270049.95	49.95
100%		+30	5270053.54	53.54
100%		+40	5270058.02	58.02
100%		+50	5270040.21	40.21
Max.	3.465	+20	5270036.63	36.63
Min.	3.135	+20	5270045.01	45.01

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510025.54	25.54
100%		-30	5510028.83	28.83
100%		-20	5510032.37	32.37
100%		-10	5510036.91	36.91
100%		0	5510040.05	40.05
100%		+10	5510048.16	48.16
100%		+30	5510051.47	51.47
100%		+40	5510056.50	56.50
100%		+50	5510040.46	40.46
Max.	3.465	+20	5510035.53	35.53
Min.	3.135	+20	5510043.38	43.38

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755024.35	24.35
100%		-30	5755029.13	29.13
100%		-20	5755032.96	32.96
100%		-10	5755036.69	36.69
100%		0	5755040.99	40.99
100%		+10	5755048.12	48.12
100%		+30	5755053.12	53.12
100%		+40	5755058.11	58.11
100%		+50	5755041.27	41.27
Max.	3.465	+20	5755036.08	36.08
Min.	3.135	+20	5755044.81	44.81

Note:

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

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190024.35	24.35
100%		-30	5190029.13	29.13
100%		-20	5190032.96	32.96
100%		-10	5190036.69	36.69
100%		0	5190040.99	40.99
100%		+10	5190048.12	48.12
100%		+30	5190053.12	53.12
100%		+40	5190058.11	58.11
100%		+50	5190041.27	41.27
Max.	3.465	+20	5190036.08	36.08
Min.	3.135	+20	5190044.81	44.81

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270024.24	24.24
100%		-30	5270028.19	28.19
100%		-20	5270032.53	32.53
100%		-10	5270036.65	36.65
100%		0	5270040.48	40.48
100%		+10	5270049.24	49.24
100%		+30	5270052.98	52.98
100%		+40	5270057.44	57.44
100%		+50	5270040.88	40.88
Max.	3.465	+20	5270036.77	36.77
Min.	3.135	+20	5270044.63	44.63

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510023.06	23.06
100%		-30	5510027.39	27.39
100%		-20	5510031.53	31.53
100%		-10	5510036.05	36.05
100%		0	5510040.31	40.31
100%		+10	5510049.97	49.97
100%		+30	5510053.33	53.33
100%		+40	5510056.62	56.62
100%		+50	5510040.48	40.48
Max.	3.465	+20	5510036.50	36.50
Min.	3.135	+20	5510044.38	44.38

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755024.14	24.14
100%		-30	5755029.22	29.22
100%		-20	5755032.60	32.60
100%		-10	5755037.64	37.64
100%		0	5755041.84	41.84
100%		+10	5755048.62	48.62
100%		+30	5755053.26	53.26
100%		+40	5755056.86	56.86
100%		+50	5755039.96	39.96
Max.	3.465	+20	5755036.22	36.22
Min.	3.135	+20	5755045.90	45.90

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.

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190023.91	23.91
100%		-30	5190027.25	27.25
100%		-20	5190030.84	30.84
100%		-10	5190035.51	35.51
100%		0	5190040.01	40.01
100%		+10	5190049.62	49.62
100%		+30	5190053.52	53.52
100%		+40	5190058.35	58.35
100%		+50	5190040.33	40.33
Max.	3.465	+20	5190035.46	35.46
Min.	3.135	+20	5190044.03	44.03

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.

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270025.75	25.75
100%		-30	5270030.23	30.23
100%		-20	5270033.67	33.67
100%		-10	5270038.18	38.18
100%		0	5270041.66	41.66
100%		+10	5270048.31	48.31
100%		+30	5270051.98	51.98
100%		+40	5270055.83	55.83
100%		+50	5270040.49	40.49
Max.	3.465	+20	5270036.98	36.98
Min.	3.135	+20	5270045.16	45.16

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510025.34	25.34
100%		-30	5510030.02	30.02
100%		-20	5510033.95	33.95
100%		-10	5510037.78	37.78
100%		0	5510041.39	41.39
100%		+10	5510049.65	49.65
100%		+30	5510053.85	53.85
100%		+40	5510057.82	57.82
100%		+50	5510041.17	41.17
Max.	3.465	+20	5510038.60	38.60
Min.	3.135	+20	5510046.63	46.63

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755025.55	25.55
100%		-30	5755029.25	29.25
100%		-20	5755032.49	32.49
100%		-10	5755036.69	36.69
100%		0	5755040.87	40.87
100%		+10	5755048.49	48.49
100%		+30	5755052.30	52.30
100%		+40	5755057.16	57.16
100%		+50	5755040.80	40.80
Max.	3.465	+20	5755035.98	35.98
Min.	3.135	+20	5755043.99	43.99

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.

80 MHz BW_ Startup

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210022.64	22.64
100%		-30	5210027.22	27.22
100%		-20	5210030.82	30.82
100%		-10	5210035.25	35.25
100%		0	5210039.96	39.96
100%		+10	5210050.02	50.02
100%		+30	5210053.89	53.89
100%		+40	5210057.07	57.07
100%		+50	5210040.57	40.57
Max.	3.465	+20	5210035.84	35.84
Min.	3.135	+20	5210044.14	44.14

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290024.42	24.42
100%		-30	5290028.55	28.55
100%		-20	5290033.20	33.20
100%		-10	5290036.95	36.95
100%		0	5290040.73	40.73
100%		+10	5290048.69	48.69
100%		+30	5290053.70	53.70
100%		+40	5290057.39	57.39
100%		+50	5290041.25	41.25
Max.	3.465	+20	5290036.89	36.89
Min.	3.135	+20	5290045.65	45.65

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530022.73	22.73
100%		-30	5530025.86	25.86
100%		-20	5530030.67	30.67
100%		-10	5530035.35	35.35
100%		0	5530040.01	40.01
100%		+10	5530049.99	49.99
100%		+30	5530054.11	54.11
100%		+40	5530058.65	58.65
100%		+50	5530040.32	40.32
Max.	3.465	+20	5530035.66	35.66
Min.	3.135	+20	5530044.46	44.46

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775026.03	26.03
100%		-30	5775030.06	30.06
100%		-20	5775034.16	34.16
100%		-10	5775038.07	38.07
100%		0	5775041.54	41.54
100%		+10	5775049.90	49.90
100%		+30	5775054.88	54.88
100%		+40	5775059.01	59.01
100%		+50	5775041.09	41.09
Max.	3.465	+20	5775039.06	39.06
Min.	3.135	+20	5775047.95	47.95

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.

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210027.15	27.15
100%		-30	5210030.38	30.38
100%		-20	5210034.78	34.78
100%		-10	5210038.31	38.31
100%		0	5210041.62	41.62
100%		+10	5210049.87	49.87
100%		+30	5210054.62	54.62
100%		+40	5210059.40	59.40
100%		+50	5210041.47	41.47
Max.	3.465	+20	5210039.65	39.65
Min.	3.135	+20	5210047.93	47.93

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290023.89	23.89
100%		-30	5290027.80	27.80
100%		-20	5290032.07	32.07
100%		-10	5290036.71	36.71
100%		0	5290040.70	40.70
100%		+10	5290048.46	48.46
100%		+30	5290052.27	52.27
100%		+40	5290056.44	56.44
100%		+50	5290040.36	40.36
Max.	3.465	+20	5290035.53	35.53
Min.	3.135	+20	5290043.98	43.98

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530024.43	24.43
100%		-30	5530028.59	28.59
100%		-20	5530032.10	32.10
100%		-10	5530036.86	36.86
100%		0	5530041.63	41.63
100%		+10	5530048.64	48.64
100%		+30	5530052.20	52.20
100%		+40	5530057.27	57.27
100%		+50	5530040.24	40.24
Max.	3.465	+20	5530035.74	35.74
Min.	3.135	+20	5530044.06	44.06

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775025.49	25.49
100%		-30	5775028.85	28.85
100%		-20	5775032.65	32.65
100%		-10	5775036.47	36.47
100%		0	5775040.13	40.13
100%		+10	5775048.46	48.46
100%		+30	5775052.03	52.03
100%		+40	5775056.44	56.44
100%		+50	5775041.18	41.18
Max.	3.465	+20	5775036.11	36.11
Min.	3.135	+20	5775043.50	43.50

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.

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210023.80	23.80
100%		-30	5210028.31	28.31
100%		-20	5210033.32	33.32
100%		-10	5210036.97	36.97
100%		0	5210041.21	41.21
100%		+10	5210048.73	48.73
100%		+30	5210051.86	51.86
100%		+40	5210054.99	54.99
100%		+50	5210041.35	41.35
Max.	3.465	+20	5210037.05	37.05
Min.	3.135	+20	5210043.83	43.83

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290024.33	24.33
100%		-30	5290028.05	28.05
100%		-20	5290033.07	33.07
100%		-10	5290037.56	37.56
100%		0	5290040.74	40.74
100%		+10	5290049.12	49.12
100%		+30	5290053.35	53.35
100%		+40	5290057.14	57.14
100%		+50	5290040.51	40.51
Max.	3.465	+20	5290037.19	37.19
Min.	3.135	+20	5290045.91	45.91

Note:

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

OPERATING BAND: UNII Band 2C

OPERATING FREQUENCY: 5,530,000,000 Hz

CHANNEL: 106

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530024.81	24.81
100%		-30	5530028.48	28.48
100%		-20	5530031.63	31.63
100%		-10	5530036.06	36.06
100%		0	5530040.17	40.17
100%		+10	5530050.09	50.09
100%		+30	5530054.56	54.56
100%		+40	5530057.89	57.89
100%		+50	5530040.57	40.57
Max.	3.465	+20	5530036.72	36.72
Min.	3.135	+20	5530045.62	45.62

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775025.79	25.79
100%		-30	5775029.15	29.15
100%		-20	5775032.31	32.31
100%		-10	5775036.43	36.43
100%		0	5775039.95	39.95
100%		+10	5775048.35	48.35
100%		+30	5775053.06	53.06
100%		+40	5775057.50	57.50
100%		+50	5775040.88	40.88
Max.	3.465	+20	5775035.66	35.66
Min.	3.135	+20	5775044.49	44.49

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.

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210026.27	26.27
100%		-30	5210030.43	30.43
100%		-20	5210034.46	34.46
100%		-10	5210037.89	37.89
100%		0	5210041.62	41.62
100%		+10	5210049.05	49.05
100%		+30	5210053.53	53.53
100%		+40	5210057.49	57.49
100%		+50	5210041.57	41.57
Max.	3.465	+20	5210038.51	38.51
Min.	3.135	+20	5210046.42	46.42

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290023.45	23.45
100%		-30	5290028.11	28.11
100%		-20	5290031.43	31.43
100%		-10	5290035.09	35.09
100%		0	5290040.01	40.01
100%		+10	5290049.77	49.77
100%		+30	5290054.61	54.61
100%		+40	5290059.64	59.64
100%		+50	5290041.34	41.34
Max.	3.465	+20	5290036.20	36.20
Min.	3.135	+20	5290044.70	44.70

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530023.80	23.80
100%		-30	5530027.67	27.67
100%		-20	5530031.97	31.97
100%		-10	5530036.54	36.54
100%		0	5530040.22	40.22
100%		+10	5530049.40	49.40
100%		+30	5530054.45	54.45
100%		+40	5530057.97	57.97
100%		+50	5530040.43	40.43
Max.	3.465	+20	5530036.37	36.37
Min.	3.135	+20	5530045.99	45.99

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: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775022.95	22.95
100%		-30	5775028.05	28.05
100%		-20	5775032.76	32.76
100%		-10	5775036.75	36.75
100%		0	5775040.48	40.48
100%		+10	5775048.63	48.63
100%		+30	5775052.76	52.76
100%		+40	5775056.69	56.69
100%		+50	5775041.01	41.01
Max.	3.465	+20	5775036.39	36.39
Min.	3.135	+20	5775044.51	44.51

Note:

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

[Ant.1]

20 MHz BW_ Startup

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180026.35	26.35
100%		-30	5180030.50	30.50
100%		-20	5180034.10	34.10
100%		-10	5180038.16	38.16
100%		0	5180041.68	41.68
100%		+10	5180048.59	48.59
100%		+30	5180052.08	52.08
100%		+40	5180056.59	56.59
100%		+50	5180040.94	40.94
Max.	3.465	+20	5180037.69	37.69
Min.	3.135	+20	5180045.24	45.24

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260024.08	24.08
100%		-30	5260028.01	28.01
100%		-20	5260032.21	32.21
100%		-10	5260036.86	36.86
100%		0	5260041.37	41.37
100%		+10	5260048.13	48.13
100%		+30	5260052.32	52.32
100%		+40	5260055.58	55.58
100%		+50	5260040.35	40.35
Max.	3.465	+20	5260035.34	35.34
Min.	3.135	+20	5260044.18	44.18

Note:

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

OPERATING BAND: UNII Band 2C

OPERATING FREQUENCY: 5,500,000,000 Hz

CHANNEL: 100

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500021.83	21.83
100%		-30	5500026.90	26.90
100%		-20	5500031.69	31.69
100%		-10	5500036.56	36.56
100%		0	5500040.93	40.93
100%		+10	5500048.34	48.34
100%		+30	5500053.06	53.06
100%		+40	5500057.47	57.47
100%		+50	5500040.13	40.13
Max.	3.465	+20	5500035.03	35.03
Min.	3.135	+20	5500044.62	44.62

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745024.71	24.71
100%		-30	5745027.83	27.83
100%		-20	5745031.94	31.94
100%		-10	5745037.01	37.01
100%		0	5745040.48	40.48
100%		+10	5745049.18	49.18
100%		+30	5745053.48	53.48
100%		+40	5745058.35	58.35
100%		+50	5745039.93	39.93
Max.	3.465	+20	5745036.12	36.12
Min.	3.135	+20	5745045.49	45.49

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.

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180025.85	25.85
100%		-30	5180029.14	29.14
100%		-20	5180033.27	33.27
100%		-10	5180037.46	37.46
100%		0	5180041.72	41.72
100%		+10	5180048.94	48.94
100%		+30	5180053.82	53.82
100%		+40	5180057.86	57.86
100%		+50	5180040.81	40.81
Max.	3.465	+20	5180037.21	37.21
Min.	3.135	+20	5180046.28	46.28

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,260,000,000 Hz
CHANNEL: 52
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260026.62	26.62
100%		-30	5260030.29	30.29
100%		-20	5260034.08	34.08
100%		-10	5260037.59	37.59
100%		0	5260041.43	41.43
100%		+10	5260049.35	49.35
100%		+30	5260053.53	53.53
100%		+40	5260057.75	57.75
100%		+50	5260041.49	41.49
Max.	3.465	+20	5260038.43	38.43
Min.	3.135	+20	5260046.12	46.12

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500024.82	24.82
100%		-30	5500029.00	29.00
100%		-20	5500033.30	33.30
100%		-10	5500036.48	36.48
100%		0	5500040.69	40.69
100%		+10	5500049.80	49.80
100%		+30	5500054.70	54.70
100%		+40	5500059.30	59.30
100%		+50	5500041.82	41.82
Max.	3.465	+20	5500038.10	38.10
Min.	3.135	+20	5500046.18	46.18

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745025.30	25.30
100%		-30	5745030.17	30.17
100%		-20	5745034.83	34.83
100%		-10	5745038.27	38.27
100%		0	5745041.48	41.48
100%		+10	5745048.96	48.96
100%		+30	5745053.89	53.89
100%		+40	5745057.60	57.60
100%		+50	5745041.56	41.56
Max.	3.465	+20	5745038.79	38.79
Min.	3.135	+20	5745047.16	47.16

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.

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180023.10	23.10
100%		-30	5180028.01	28.01
100%		-20	5180031.75	31.75
100%		-10	5180036.47	36.47
100%		0	5180041.11	41.11
100%		+10	5180048.14	48.14
100%		+30	5180052.57	52.57
100%		+40	5180056.68	56.68
100%		+50	5180040.28	40.28
Max.	3.465	+20	5180034.89	34.89
Min.	3.135	+20	5180044.04	44.04

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260026.12	26.12
100%		-30	5260029.58	29.58
100%		-20	5260033.76	33.76
100%		-10	5260036.94	36.94
100%		0	5260041.06	41.06
100%		+10	5260049.78	49.78
100%		+30	5260053.50	53.50
100%		+40	5260058.03	58.03
100%		+50	5260041.82	41.82
Max.	3.465	+20	5260038.54	38.54
Min.	3.135	+20	5260045.44	45.44

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500023.28	23.28
100%		-30	5500027.96	27.96
100%		-20	5500033.01	33.01
100%		-10	5500036.98	36.98
100%		0	5500040.36	40.36
100%		+10	5500048.67	48.67
100%		+30	5500053.25	53.25
100%		+40	5500058.12	58.12
100%		+50	5500041.03	41.03
Max.	3.465	+20	5500036.68	36.68
Min.	3.135	+20	5500045.23	45.23

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745025.08	25.08
100%		-30	5745028.39	28.39
100%		-20	5745031.55	31.55
100%		-10	5745036.59	36.59
100%		0	5745041.43	41.43
100%		+10	5745048.72	48.72
100%		+30	5745052.58	52.58
100%		+40	5745056.47	56.47
100%		+50	5745039.96	39.96
Max.	3.465	+20	5745035.27	35.27
Min.	3.135	+20	5745044.17	44.17

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.

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5180025.06	25.06
100%		-30	5180028.30	28.30
100%		-20	5180032.41	32.41
100%		-10	5180036.30	36.30
100%		0	5180040.56	40.56
100%		+10	5180050.00	50.00
100%		+30	5180053.25	53.25
100%		+40	5180056.81	56.81
100%		+50	5180041.11	41.11
Max.	3.465	+20	5180037.41	37.41
Min.	3.135	+20	5180044.55	44.55

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5260026.10	26.10
100%		-30	5260029.28	29.28
100%		-20	5260034.11	34.11
100%		-10	5260037.47	37.47
100%		0	5260040.61	40.61
100%		+10	5260049.50	49.50
100%		+30	5260053.16	53.16
100%		+40	5260056.94	56.94
100%		+50	5260041.64	41.64
Max.	3.465	+20	5260038.61	38.61
Min.	3.135	+20	5260045.63	45.63

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5500023.23	23.23
100%		-30	5500027.89	27.89
100%		-20	5500032.45	32.45
100%		-10	5500036.86	36.86
100%		0	5500040.34	40.34
100%		+10	5500048.70	48.70
100%		+30	5500052.04	52.04
100%		+40	5500056.53	56.53
100%		+50	5500040.59	40.59
Max.	3.465	+20	5500036.15	36.15
Min.	3.135	+20	5500043.90	43.90

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5745025.33	25.33
100%		-30	5745029.91	29.91
100%		-20	5745034.50	34.50
100%		-10	5745037.92	37.92
100%		0	5745041.61	41.61
100%		+10	5745049.64	49.64
100%		+30	5745054.71	54.71
100%		+40	5745058.80	58.80
100%		+50	5745041.58	41.58
Max.	3.465	+20	5745039.14	39.14
Min.	3.135	+20	5745047.63	47.63

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_ Startup

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190025.67	25.67
100%		-30	5190029.02	29.02
100%		-20	5190032.18	32.18
100%		-10	5190036.88	36.88
100%		0	5190040.39	40.39
100%		+10	5190049.83	49.83
100%		+30	5190053.37	53.37
100%		+40	5190057.95	57.95
100%		+50	5190040.30	40.30
Max.	3.465	+20	5190037.01	37.01
Min.	3.135	+20	5190045.25	45.25

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270024.22	24.22
100%		-30	5270028.32	28.32
100%		-20	5270033.13	33.13
100%		-10	5270037.22	37.22
100%		0	5270040.55	40.55
100%		+10	5270049.25	49.25
100%		+30	5270052.83	52.83
100%		+40	5270056.97	56.97
100%		+50	5270040.91	40.91
Max.	3.465	+20	5270037.38	37.38
Min.	3.135	+20	5270045.05	45.05

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510023.04	23.04
100%		-30	5510027.41	27.41
100%		-20	5510032.00	32.00
100%		-10	5510036.46	36.46
100%		0	5510040.56	40.56
100%		+10	5510049.13	49.13
100%		+30	5510052.58	52.58
100%		+40	5510057.56	57.56
100%		+50	5510040.54	40.54
Max.	3.465	+20	5510036.13	36.13
Min.	3.135	+20	5510044.04	44.04

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755023.41	23.41
100%		-30	5755026.93	26.93
100%		-20	5755031.81	31.81
100%		-10	5755036.69	36.69
100%		0	5755040.51	40.51
100%		+10	5755048.70	48.70
100%		+30	5755053.21	53.21
100%		+40	5755057.57	57.57
100%		+50	5755040.12	40.12
Max.	3.465	+20	5755035.51	35.51
Min.	3.135	+20	5755044.90	44.90

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.

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190024.78	24.78
100%		-30	5190029.63	29.63
100%		-20	5190033.54	33.54
100%		-10	5190037.47	37.47
100%		0	5190041.29	41.29
100%		+10	5190048.71	48.71
100%		+30	5190053.29	53.29
100%		+40	5190057.52	57.52
100%		+50	5190041.07	41.07
Max.	3.465	+20	5190037.25	37.25
Min.	3.135	+20	5190045.76	45.76

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270026.69	26.69
100%		-30	5270030.91	30.91
100%		-20	5270034.60	34.60
100%		-10	5270038.21	38.21
100%		0	5270041.84	41.84
100%		+10	5270049.64	49.64
100%		+30	5270052.90	52.90
100%		+40	5270056.86	56.86
100%		+50	5270041.39	41.39
Max.	3.465	+20	5270039.24	39.24
Min.	3.135	+20	5270046.11	46.11

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510024.99	24.99
100%		-30	5510028.68	28.68
100%		-20	5510032.10	32.10
100%		-10	5510036.10	36.10
100%		0	5510040.97	40.97
100%		+10	5510048.23	48.23
100%		+30	5510052.39	52.39
100%		+40	5510056.11	56.11
100%		+50	5510041.00	41.00
Max.	3.465	+20	5510035.33	35.33
Min.	3.135	+20	5510043.49	43.49

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755024.74	24.74
100%		-30	5755029.59	29.59
100%		-20	5755033.55	33.55
100%		-10	5755036.89	36.89
100%		0	5755041.36	41.36
100%		+10	5755048.28	48.28
100%		+30	5755051.90	51.90
100%		+40	5755055.68	55.68
100%		+50	5755041.66	41.66
Max.	3.465	+20	5755036.83	36.83
Min.	3.135	+20	5755043.79	43.79

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.

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190025.17	25.17
100%		-30	5190030.07	30.07
100%		-20	5190033.39	33.39
100%		-10	5190036.57	36.57
100%		0	5190040.09	40.09
100%		+10	5190048.67	48.67
100%		+30	5190053.42	53.42
100%		+40	5190056.98	56.98
100%		+50	5190041.82	41.82
Max.	3.465	+20	5190037.06	37.06
Min.	3.135	+20	5190044.99	44.99

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270022.72	22.72
100%		-30	5270026.71	26.71
100%		-20	5270030.90	30.90
100%		-10	5270035.34	35.34
100%		0	5270039.99	39.99
100%		+10	5270048.78	48.78
100%		+30	5270053.18	53.18
100%		+40	5270057.07	57.07
100%		+50	5270040.56	40.56
Max.	3.465	+20	5270034.68	34.68
Min.	3.135	+20	5270043.52	43.52

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510024.22	24.22
100%		-30	5510027.54	27.54
100%		-20	5510031.70	31.70
100%		-10	5510036.24	36.24
100%		0	5510039.95	39.95
100%		+10	5510049.19	49.19
100%		+30	5510053.16	53.16
100%		+40	5510056.98	56.98
100%		+50	5510040.46	40.46
Max.	3.465	+20	5510035.89	35.89
Min.	3.135	+20	5510044.40	44.40

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755023.43	23.43
100%		-30	5755028.31	28.31
100%		-20	5755031.73	31.73
100%		-10	5755036.56	36.56
100%		0	5755041.21	41.21
100%		+10	5755049.27	49.27
100%		+30	5755054.25	54.25
100%		+40	5755058.28	58.28
100%		+50	5755040.17	40.17
Max.	3.465	+20	5755036.00	36.00
Min.	3.135	+20	5755045.81	45.81

Note:

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

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5190026.71	26.71
100%		-30	5190030.48	30.48
100%		-20	5190033.62	33.62
100%		-10	5190037.08	37.08
100%		0	5190041.80	41.80
100%		+10	5190049.10	49.10
100%		+30	5190052.96	52.96
100%		+40	5190057.21	57.21
100%		+50	5190041.54	41.54
Max.	3.465	+20	5190037.72	37.72
Min.	3.135	+20	5190045.04	45.04

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5270025.15	25.15
100%		-30	5270030.03	30.03
100%		-20	5270033.61	33.61
100%		-10	5270037.00	37.00
100%		0	5270041.59	41.59
100%		+10	5270049.43	49.43
100%		+30	5270052.67	52.67
100%		+40	5270057.71	57.71
100%		+50	5270041.61	41.61
Max.	3.465	+20	5270038.04	38.04
Min.	3.135	+20	5270044.67	44.67

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5510022.15	22.15
100%		-30	5510026.69	26.69
100%		-20	5510031.51	31.51
100%		-10	5510035.95	35.95
100%		0	5510040.52	40.52
100%		+10	5510049.21	49.21
100%		+30	5510053.93	53.93
100%		+40	5510057.16	57.16
100%		+50	5510040.56	40.56
Max.	3.465	+20	5510035.72	35.72
Min.	3.135	+20	5510044.88	44.88

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5755024.88	24.88
100%		-30	5755029.98	29.98
100%		-20	5755034.16	34.16
100%		-10	5755037.47	37.47
100%		0	5755041.54	41.54
100%		+10	5755048.17	48.17
100%		+30	5755053.15	53.15
100%		+40	5755057.80	57.80
100%		+50	5755041.69	41.69
Max.	3.465	+20	5755037.33	37.33
Min.	3.135	+20	5755045.62	45.62

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_ Startup

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210023.72	23.72
100%		-30	5210028.80	28.80
100%		-20	5210033.82	33.82
100%		-10	5210037.21	37.21
100%		0	5210041.89	41.89
100%		+10	5210049.38	49.38
100%		+30	5210054.41	54.41
100%		+40	5210058.22	58.22
100%		+50	5210041.61	41.61
Max.	3.465	+20	5210038.20	38.20
Min.	3.135	+20	5210046.62	46.62

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290025.55	25.55
100%		-30	5290029.29	29.29
100%		-20	5290032.96	32.96
100%		-10	5290036.40	36.40
100%		0	5290040.76	40.76
100%		+10	5290048.32	48.32
100%		+30	5290052.77	52.77
100%		+40	5290057.24	57.24
100%		+50	5290041.56	41.56
Max.	3.465	+20	5290036.28	36.28
Min.	3.135	+20	5290044.17	44.17

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 2C

OPERATING FREQUENCY: 5,530,000,000 Hz

CHANNEL: 106

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530023.82	23.82
100%		-30	5530027.87	27.87
100%		-20	5530032.90	32.90
100%		-10	5530037.13	37.13
100%		0	5530041.20	41.20
100%		+10	5530048.63	48.63
100%		+30	5530051.98	51.98
100%		+40	5530056.96	56.96
100%		+50	5530040.77	40.77
Max.	3.465	+20	5530036.53	36.53
Min.	3.135	+20	5530044.11	44.11

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 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775023.62	23.62
100%		-30	5775028.52	28.52
100%		-20	5775031.90	31.90
100%		-10	5775035.92	35.92
100%		0	5775040.85	40.85
100%		+10	5775049.65	49.65
100%		+30	5775053.53	53.53
100%		+40	5775057.27	57.27
100%		+50	5775040.98	40.98
Max.	3.465	+20	5775036.55	36.55
Min.	3.135	+20	5775044.45	44.45

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.

2 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210024.27	24.27
100%		-30	5210028.18	28.18
100%		-20	5210031.56	31.56
100%		-10	5210035.30	35.30
100%		0	5210040.19	40.19
100%		+10	5210048.31	48.31
100%		+30	5210053.29	53.29
100%		+40	5210056.75	56.75
100%		+50	5210041.26	41.26
Max.	3.465	+20	5210034.87	34.87
Min.	3.135	+20	5210043.59	43.59

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290025.87	25.87
100%		-30	5290029.02	29.02
100%		-20	5290032.84	32.84
100%		-10	5290037.32	37.32
100%		0	5290041.75	41.75
100%		+10	5290048.45	48.45
100%		+30	5290053.51	53.51
100%		+40	5290056.69	56.69
100%		+50	5290040.52	40.52
Max.	3.465	+20	5290036.29	36.29
Min.	3.135	+20	5290045.83	45.83

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530023.18	23.18
100%		-30	5530028.15	28.15
100%		-20	5530032.48	32.48
100%		-10	5530037.50	37.50
100%		0	5530040.77	40.77
100%		+10	5530048.65	48.65
100%		+30	5530052.14	52.14
100%		+40	5530056.97	56.97
100%		+50	5530039.98	39.98
Max.	3.465	+20	5530036.13	36.13
Min.	3.135	+20	5530044.64	44.64

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775026.47	26.47
100%		-30	5775030.33	30.33
100%		-20	5775034.58	34.58
100%		-10	5775038.28	38.28
100%		0	5775041.42	41.42
100%		+10	5775049.46	49.46
100%		+30	5775053.42	53.42
100%		+40	5775056.75	56.75
100%		+50	5775041.30	41.30
Max.	3.465	+20	5775039.04	39.04
Min.	3.135	+20	5775046.70	46.70

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.

5 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210024.99	24.99
100%		-30	5210028.23	28.23
100%		-20	5210032.39	32.39
100%		-10	5210036.93	36.93
100%		0	5210041.56	41.56
100%		+10	5210048.47	48.47
100%		+30	5210052.23	52.23
100%		+40	5210055.50	55.50
100%		+50	5210040.46	40.46
Max.	3.465	+20	5210035.86	35.86
Min.	3.135	+20	5210044.16	44.16

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290023.50	23.50
100%		-30	5290028.55	28.55
100%		-20	5290033.33	33.33
100%		-10	5290037.71	37.71
100%		0	5290041.41	41.41
100%		+10	5290049.97	49.97
100%		+30	5290054.15	54.15
100%		+40	5290058.46	58.46
100%		+50	5290040.62	40.62
Max.	3.465	+20	5290038.30	38.30
Min.	3.135	+20	5290046.86	46.86

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530024.71	24.71
100%		-30	5530028.42	28.42
100%		-20	5530032.81	32.81
100%		-10	5530036.93	36.93
100%		0	5530041.10	41.10
100%		+10	5530049.00	49.00
100%		+30	5530052.98	52.98
100%		+40	5530056.99	56.99
100%		+50	5530040.88	40.88
Max.	3.465	+20	5530036.81	36.81
Min.	3.135	+20	5530044.91	44.91

Note:

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

OPERATING BAND: UNII Band 3

OPERATING FREQUENCY: 5,775,000,000 Hz

CHANNEL: 155

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775023.05	23.05
100%		-30	5775028.15	28.15
100%		-20	5775031.81	31.81
100%		-10	5775036.60	36.60
100%		0	5775040.39	40.39
100%		+10	5775048.81	48.81
100%		+30	5775052.52	52.52
100%		+40	5775057.62	57.62
100%		+50	5775040.21	40.21
Max.	3.465	+20	5775035.62	35.62
Min.	3.135	+20	5775044.12	44.12

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.

10 minutes

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5210023.56	23.56
100%		-30	5210027.88	27.88
100%		-20	5210032.98	32.98
100%		-10	5210037.09	37.09
100%		0	5210041.49	41.49
100%		+10	5210049.59	49.59
100%		+30	5210053.89	53.89
100%		+40	5210057.74	57.74
100%		+50	5210040.89	40.89
Max.	3.465	+20	5210037.57	37.57
Min.	3.135	+20	5210045.98	45.98

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5290022.22	22.22
100%		-30	5290026.96	26.96
100%		-20	5290030.32	30.32
100%		-10	5290035.21	35.21
100%		0	5290040.31	40.31
100%		+10	5290049.53	49.53
100%		+30	5290054.63	54.63
100%		+40	5290058.85	58.85
100%		+50	5290040.11	40.11
Max.	3.465	+20	5290034.85	34.85
Min.	3.135	+20	5290044.84	44.84

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 2C

OPERATING FREQUENCY: 5,530,000,000 Hz

CHANNEL: 106

REFERENCE VOLTAGE: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5530025.39	25.39
100%		-30	5530028.90	28.90
100%		-20	5530033.93	33.93
100%		-10	5530037.40	37.40
100%		0	5530040.72	40.72
100%		+10	5530050.06	50.06
100%		+30	5530055.04	55.04
100%		+40	5530059.31	59.31
100%		+50	5530041.53	41.53
Max.	3.465	+20	5530038.99	38.99
Min.	3.135	+20	5530047.44	47.44

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: 3.30 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.300	+20(Ref)	5775022.74	22.74
100%		-30	5775027.74	27.74
100%		-20	5775032.69	32.69
100%		-10	5775037.10	37.10
100%		0	5775041.56	41.56
100%		+10	5775049.67	49.67
100%		+30	5775052.98	52.98
100%		+40	5775057.18	57.18
100%		+50	5775040.59	40.59
Max.	3.465	+20	5775037.36	37.36
Min.	3.135	+20	5775045.08	45.08

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.

9.9 RADIATED MEASUREMENT

9.9.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209, §15.407

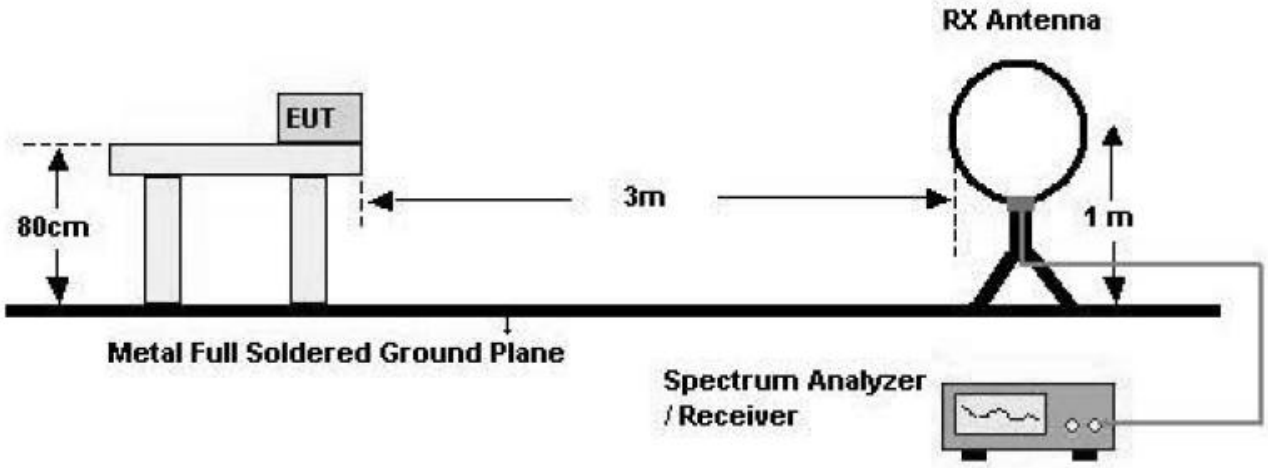
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

▣ §15.407,RSS-247, KDB 789033 D02

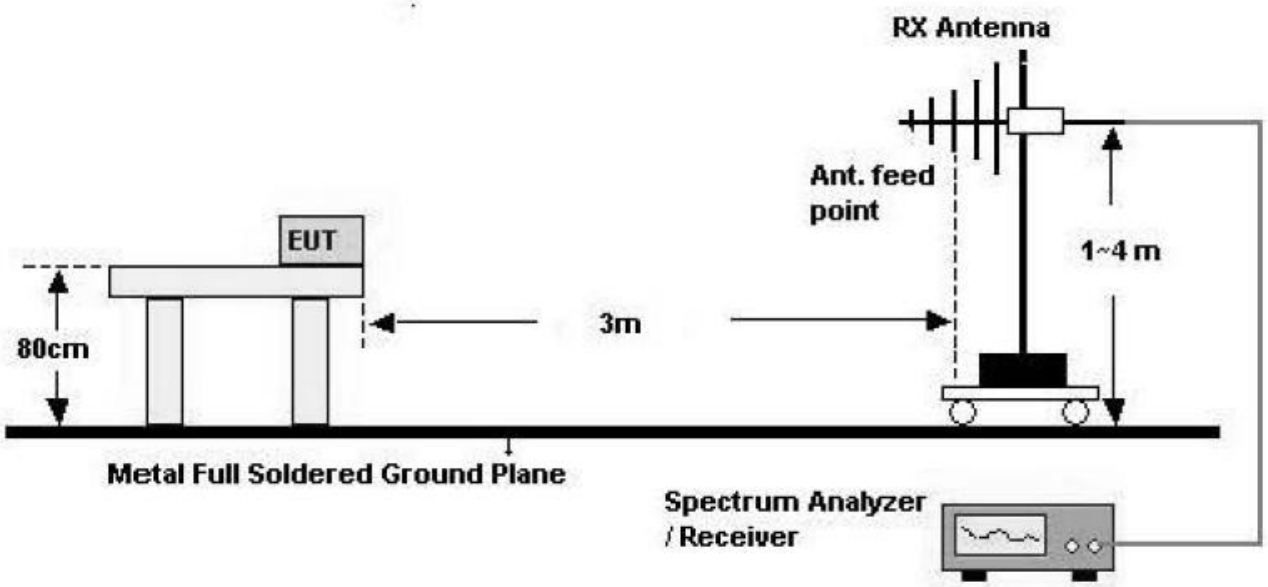
All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dBμV/m. Espectally, for transmitter operating in the 5725 Mhz – 5850 MHz : All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Configuration

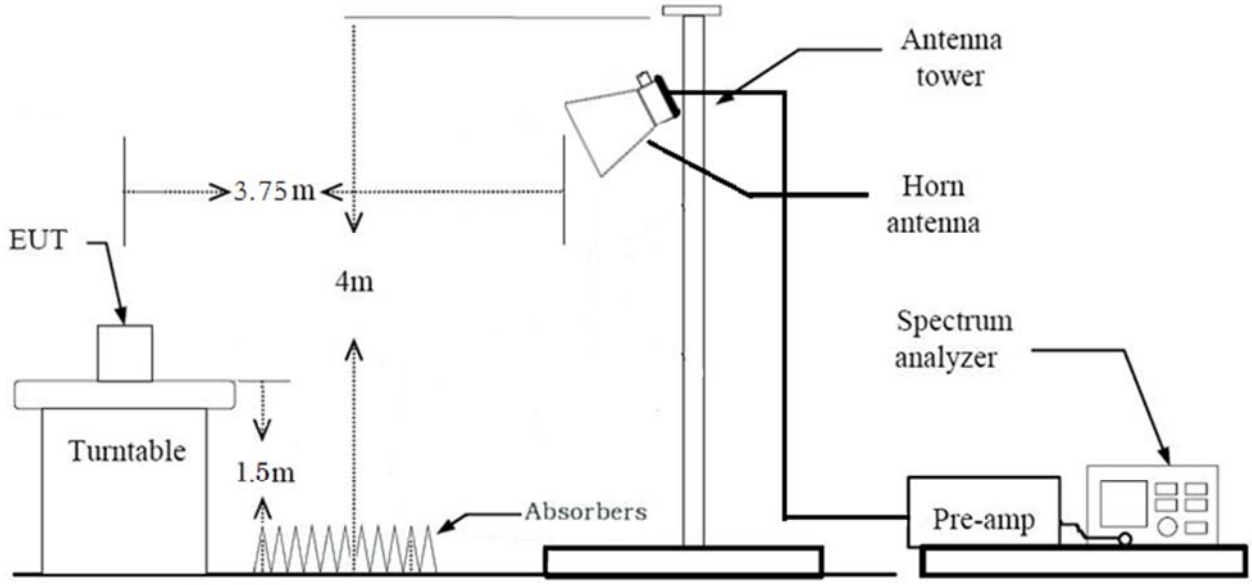
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

ANSI C63.10:2013

Method G)5) in KDB 789033 D02 v02r01 (Peak)

Method G)6)d) in KDB 789033 D02 v02r01 (Average)

. Spectrum setting:

- Peak.

1. RBW = 1 MHz
2. VBW ≥ 3 MHz
3. Detector = Peak
4. Sweep Time = auto
5. Trace mode = max hold
6. Allow sweeps to continue until the trace stabilizes.
7. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.

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

1. RBW = 1 MHz
2. VBW
   2.1. If the EUT is configured to transmit with duty cycle ≥ 98 percent, set VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
   2.2. If the EUT duty cycle is < 98 percent, set VBW ≥ 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 minimym number of traces by a factor of 1/x, where x is the duty cycle.

Note :

1. We used the Method VB for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80 mode to perform the average filed strength measurements.
2. The actual setting value of VBW for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80
3. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor(reference distance : 3 m).
4. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
㎒	dB㎶	dB /m	dB	(H/V)	dB㎶/m	dB㎶/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 (specific distance / 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.
6. The test results for below 30 MHz is correlated to an open site.
   The result on OATS is about 2 dB higher than semi-anechoic chamber (10 m chamber)

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
㎒	dB㎶	dB /m	dB	(H/V)	dB㎶/m	dB㎶/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

[MIMO]

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	56.23	6.98	V	63.21	68.20	4.99	PK
15540	50.13	12.50	V	62.63	73.98	11.35	PK
15540	35.02	12.50	V	47.52	53.98	6.46	AV
10360	57.91	6.98	H	64.89	68.20	3.31	PK
15540	50.67	12.50	H	63.17	73.98	10.81	PK
15540	35.48	12.50	H	47.98	53.98	6.00	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	56.82	7.08	V	63.90	68.20	4.30	PK
15600	51.03	11.70	V	62.73	73.98	11.25	PK
15600	34.97	11.70	V	46.67	53.98	7.31	AV
10400	57.05	7.08	H	64.13	68.20	4.07	PK
15600	51.12	11.70	H	62.82	73.98	11.16	PK
15600	35.02	11.70	H	46.72	53.98	7.26	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	56.57	7.75	V	64.32	68.20	3.88	PK
15720	51.62	11.90	V	63.52	73.98	10.46	PK
15720	35.20	11.90	V	47.10	53.98	6.88	AV
10480	57.29	7.75	H	65.04	68.20	3.16	PK
15720	51.95	11.90	H	63.85	73.98	10.13	PK
15720	35.71	11.90	H	47.61	53.98	6.37	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	56.86	6.98	V	63.84	68.20	4.36	PK
15540	49.15	12.50	V	61.65	73.98	12.33	PK
15540	34.20	12.50	V	46.70	53.98	7.28	AV
10360	58.19	6.98	H	65.17	68.20	3.03	PK
15540	50.03	12.50	H	62.53	73.98	11.45	PK
15540	35.03	12.50	H	47.53	53.98	6.45	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	56.19	7.08	V	63.27	68.20	4.93	PK
15600	49.28	11.70	V	60.98	73.98	13.00	PK
15600	34.06	11.70	V	45.76	53.98	8.22	AV
10400	57.50	7.08	H	64.58	68.20	3.62	PK
15600	50.24	11.70	H	61.94	73.98	12.04	PK
15600	35.10	11.70	H	46.80	53.98	7.18	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.96	7.75	V	62.71	68.20	5.49	PK
15720	50.19	11.90	V	62.09	73.98	11.89	PK
15720	34.59	11.90	V	46.49	53.98	7.49	AV
10480	56.13	7.75	H	63.88	68.20	4.32	PK
15720	51.22	11.90	H	63.12	73.98	10.86	PK
15720	35.33	11.90	H	47.23	53.98	6.75	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	56.68	6.98	V	63.66	68.20	4.54	PK
15540	49.02	12.50	V	61.52	73.98	12.46	PK
15540	34.17	12.50	V	46.67	53.98	7.31	AV
10360	57.86	6.98	H	64.84	68.20	3.36	PK
15540	49.12	12.50	H	61.62	73.98	12.36	PK
15540	34.50	12.50	H	47.00	53.98	6.98	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	56.11	7.08	V	63.19	68.20	5.01	PK
15600	49.82	11.70	V	61.52	73.98	12.46	PK
15600	34.10	11.70	V	45.80	53.98	8.18	AV
10400	57.02	7.08	H	64.10	68.20	4.10	PK
15600	50.14	11.70	H	61.84	73.98	12.14	PK
15600	34.98	11.70	H	46.68	53.98	7.30	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.69	7.75	V	62.44	68.20	5.76	PK
15720	48.55	11.90	V	60.45	73.98	13.53	PK
15720	33.29	11.90	V	45.19	53.98	8.79	AV
10480	57.08	7.75	H	64.83	68.20	3.37	PK
15720	49.87	11.90	H	61.77	73.98	12.21	PK
15720	34.30	11.90	H	46.20	53.98	7.78	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	45.35	6.59	V	51.94	68.20	16.26	PK
15570	44.62	12.19	V	56.81	73.98	17.17	PK
15570	31.75	12.19	V	43.94	53.98	10.04	AV
10380	47.06	6.59	H	53.65	68.20	14.55	PK
15570	45.41	12.19	H	57.60	73.98	16.38	PK
15570	32.48	12.19	H	44.67	53.98	9.31	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	53.62	8.14	V	61.76	68.20	6.44	PK
15690	46.74	12.31	V	59.05	73.98	14.93	PK
15690	32.95	12.31	V	45.26	53.98	8.72	AV
10460	55.00	8.14	H	63.14	68.20	5.06	PK
15690	47.42	12.31	H	59.73	73.98	14.25	PK
15690	33.99	12.31	H	46.30	53.98	7.68	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	48.04	6.59	V	54.63	68.20	13.57	PK
15570	44.25	12.19	V	56.44	73.98	17.54	PK
15570	31.70	12.19	V	43.89	53.98	10.09	AV
10380	49.28	6.59	H	55.87	68.20	12.33	PK
15570	45.50	12.19	H	57.69	73.98	16.29	PK
15570	32.63	12.19	H	44.82	53.98	9.16	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.12	8.14	V	62.26	68.20	5.94	PK
15690	45.17	12.31	V	57.48	73.98	16.50	PK
15690	32.69	12.31	V	45.00	53.98	8.98	AV
10460	55.32	8.14	H	63.46	68.20	4.74	PK
15690	46.21	12.31	H	58.52	73.98	15.46	PK
15690	33.55	12.31	H	45.86	53.98	8.12	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	48.90	8.02	V	56.92	68.20	11.28	PK
15630	44.29	12.37	V	56.66	73.98	17.32	PK
15630	33.06	12.37	V	45.43	53.98	8.55	AV
10420	49.40	8.02	H	57.42	68.20	10.78	PK
15630	44.96	12.37	H	57.33	73.98	16.65	PK
15630	33.61	12.37	H	45.98	53.98	8.00	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11 a
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	54.85	8.39	V	63.24	68.20	4.96	PK
15780	45.09	12.24	V	57.33	73.98	16.65	PK
15780	30.72	12.24	V	42.96	53.98	11.02	AV
10520	55.31	8.39	H	63.70	68.20	4.50	PK
15780	45.17	12.24	H	57.41	73.98	16.57	PK
15780	30.79	12.24	H	43.03	53.98	10.95	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	55.12	8.99	V	64.11	73.98	9.87	PK
10600	40.88	8.99	V	49.87	53.98	4.11	AV
15900	44.74	12.11	V	56.85	73.98	17.13	PK
15900	30.53	12.11	V	42.64	53.98	11.34	AV
10600	55.62	8.99	H	64.61	73.98	9.37	PK
10600	41.17	8.99	H	50.16	53.98	3.82	AV
15900	45.29	12.11	H	57.40	73.98	16.58	PK
15900	30.87	12.11	H	42.98	53.98	11.00	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	55.16	9.24	V	64.40	73.98	9.58	PK
10640	40.58	9.24	V	49.82	53.98	4.16	AV
15960	45.06	10.68	V	55.74	73.98	18.24	PK
15960	30.89	10.68	V	41.57	53.98	12.41	AV
10640	55.85	9.24	H	65.09	73.98	8.89	PK
10640	41.21	9.24	H	50.45	53.98	3.53	AV
15960	45.36	10.68	H	56.04	73.98	17.94	PK
15960	31.02	10.68	H	41.70	53.98	12.28	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	55.18	8.39	V	63.57	68.20	4.63	PK
15780	43.17	12.24	V	55.41	73.98	18.57	PK
15780	30.28	12.24	V	42.52	53.98	11.46	AV
10520	56.11	8.39	H	64.50	68.20	3.70	PK
15780	43.75	12.24	H	55.99	73.98	17.99	PK
15780	30.88	12.24	H	43.12	53.98	10.86	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.39	8.99	V	63.38	73.98	10.60	PK
10600	40.28	8.99	V	49.27	53.98	4.71	AV
15900	43.06	12.11	V	55.17	73.98	18.81	PK
15900	30.20	12.11	V	42.31	53.98	11.67	AV
10600	55.36	8.99	H	64.35	73.98	9.63	PK
10600	41.05	8.99	H	50.04	53.98	3.94	AV
15900	43.96	12.11	H	56.07	73.98	17.91	PK
15900	30.87	12.11	H	42.98	53.98	11.00	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.44	9.24	V	63.68	73.98	10.30	PK
10640	40.28	9.24	V	49.52	53.98	4.46	AV
15960	42.79	10.68	V	53.47	73.98	20.51	PK
15960	30.16	10.68	V	40.84	53.98	13.14	AV
10640	55.71	9.24	H	64.95	73.98	9.03	PK
10640	41.42	9.24	H	50.66	53.98	3.32	AV
15960	44.93	10.68	H	55.61	73.98	18.37	PK
15960	31.20	10.68	H	41.88	53.98	12.10	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	55.13	8.39	V	63.52	68.20	4.68	PK
15780	43.07	12.24	V	55.31	73.98	18.67	PK
15780	30.18	12.24	V	42.42	53.98	11.56	AV
10520	56.12	8.39	H	64.51	68.20	3.69	PK
15780	43.57	12.24	H	55.81	73.98	18.17	PK
15780	30.89	12.24	H	43.13	53.98	10.85	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.29	8.99	V	63.28	73.98	10.70	PK
10600	40.22	8.99	V	49.21	53.98	4.77	AV
15900	43.01	12.11	V	55.12	73.98	18.86	PK
15900	30.11	12.11	V	42.22	53.98	11.76	AV
10600	55.63	8.99	H	64.62	73.98	9.36	PK
10600	41.10	8.99	H	50.09	53.98	3.89	AV
15900	43.69	12.11	H	55.80	73.98	18.18	PK
15900	30.78	12.11	H	42.89	53.98	11.09	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	55.64	9.24	V	64.88	73.98	9.10	PK
10640	40.59	9.24	V	49.83	53.98	4.15	AV
15960	43.89	10.68	V	54.57	73.98	19.41	PK
15960	30.41	10.68	V	41.09	53.98	12.89	AV
10640	56.40	9.24	H	65.64	73.98	8.34	PK
10640	41.42	9.24	H	50.66	53.98	3.32	AV
15960	44.33	10.68	H	55.01	73.98	18.97	PK
15960	30.92	10.68	H	41.60	53.98	12.38	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	51.24	8.74	V	59.98	68.20	8.22	PK
15810	45.84	11.66	V	57.50	73.98	16.48	PK
15810	33.26	11.66	V	44.92	53.98	9.06	AV
10540	52.19	8.74	H	60.93	68.20	7.27	PK
15810	46.47	11.66	H	58.13	73.98	15.85	PK
15810	34.10	11.66	H	45.76	53.98	8.22	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	45.69	8.73	V	54.42	73.98	19.56	PK
10620	33.52	8.73	V	42.25	53.98	11.73	AV
15930	43.27	10.84	V	54.11	73.98	19.87	PK
15930	31.02	10.84	V	41.86	53.98	12.12	AV
10620	46.57	8.73	H	55.30	73.98	18.68	PK
10620	34.42	8.73	H	43.15	53.98	10.83	AV
15930	43.96	10.84	H	54.80	73.98	19.18	PK
15930	31.81	10.84	H	42.65	53.98	11.33	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	54.29	8.74	V	63.03	68.20	5.17	PK
15810	46.18	11.66	V	57.84	73.98	16.14	PK
15810	34.27	11.66	V	45.93	53.98	8.05	AV
10540	55.84	8.74	H	64.58	68.20	3.62	PK
15810	47.76	11.66	H	59.42	73.98	14.56	PK
15810	35.18	11.66	H	46.84	53.98	7.14	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	48.27	8.73	V	57.00	73.98	16.98	PK
10620	35.60	8.73	V	44.33	53.98	9.65	AV
15930	42.81	10.84	V	53.65	73.98	20.33	PK
15930	30.94	10.84	V	41.78	53.98	12.20	AV
10620	49.39	8.73	H	58.12	73.98	15.86	PK
10620	36.33	8.73	H	45.06	53.98	8.92	AV
15930	43.99	10.84	H	54.83	73.98	19.15	PK
15930	31.62	10.84	H	42.46	53.98	11.52	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	51.26	9.00	V	60.26	68.20	7.94	PK
15870	43.05	11.24	V	54.29	73.98	19.69	PK
15870	32.11	11.24	V	43.35	53.98	10.63	AV
10580	52.09	9.00	H	61.09	68.20	7.11	PK
15870	43.75	11.24	H	54.99	73.98	18.99	PK
15870	32.87	11.24	H	44.11	53.98	9.87	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.03	10.28	V	62.31	73.98	11.67	PK
11000	37.56	10.28	V	47.84	53.98	6.14	AV
16500	45.72	11.67	V	57.39	68.20	10.81	PK
11000	52.61	10.28	H	62.89	73.98	11.09	PK
11000	38.01	10.28	H	48.29	53.98	5.69	AV
16500	46.11	11.67	H	57.78	68.20	10.42	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	52.23	10.27	V	62.50	73.98	11.48	PK
11160	37.85	10.27	V	48.12	53.98	5.86	AV
16740	45.98	11.32	V	57.30	68.20	10.90	PK
11160	52.99	10.27	H	63.26	73.98	10.72	PK
11160	38.56	10.27	H	48.83	53.98	5.15	AV
16740	46.96	11.32	H	58.28	68.20	9.92	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 a
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	51.33	9.35	V	60.68	73.98	13.30	PK
11440	37.15	9.35	V	46.50	53.98	7.48	AV
17160	45.02	13.07	V	58.09	68.20	10.11	PK
11440	51.75	9.35	H	61.10	73.98	12.88	PK
11440	37.84	9.35	H	47.19	53.98	6.79	AV
17160	45.99	13.07	H	59.06	68.20	9.14	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	49.58	10.28	V	59.86	73.98	14.12	PK
11000	36.29	10.28	V	46.57	53.98	7.41	AV
16500	46.32	11.67	V	57.99	68.20	10.21	PK
11000	50.12	10.28	H	60.40	73.98	13.58	PK
11000	37.15	10.28	H	47.43	53.98	6.55	AV
16500	47.10	11.67	H	58.77	68.20	9.43	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	49.62	10.27	V	59.89	73.98	14.09	PK
11160	36.54	10.27	V	46.81	53.98	7.17	AV
16740	46.44	11.32	V	57.76	68.20	10.44	PK
11160	50.39	10.27	H	60.66	73.98	13.32	PK
11160	37.27	10.27	H	47.54	53.98	6.44	AV
16740	47.49	11.32	H	58.81	68.20	9.39	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	50.06	9.35	V	59.41	73.98	14.57	PK
11440	36.98	9.35	V	46.33	53.98	7.65	AV
17160	44.62	13.07	V	57.69	68.20	10.51	PK
11440	50.66	9.35	H	60.01	73.98	13.97	PK
11440	37.62	9.35	H	46.97	53.98	7.01	AV
17160	45.39	13.07	H	58.46	68.20	9.74	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_ HT20. Worst case is MCS0 in 802.11n_ HT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	49.85	10.28	V	60.13	73.98	13.85	PK
11000	36.92	10.28	V	47.20	53.98	6.78	AV
16500	47.03	11.67	V	58.70	68.20	9.50	PK
11000	51.21	10.28	H	61.49	73.98	12.49	PK
11000	38.16	10.28	H	48.44	53.98	5.54	AV
16500	47.52	11.67	H	59.19	68.20	9.01	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	52.02	10.27	V	62.29	73.98	11.69	PK
11160	38.27	10.27	V	48.54	53.98	5.44	AV
16740	47.06	11.32	V	58.38	68.20	9.82	PK
11160	53.43	10.27	H	63.70	73.98	10.28	PK
11160	39.80	10.27	H	50.07	53.98	3.91	AV
16740	48.34	11.32	H	59.66	68.20	8.54	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	51.11	9.35	V	60.46	73.98	13.52	PK
11440	37.25	9.35	V	46.60	53.98	7.38	AV
17160	45.27	13.07	V	58.34	68.20	9.86	PK
11440	52.15	9.35	H	61.50	73.98	12.48	PK
11440	38.20	9.35	H	47.55	53.98	6.43	AV
17160	46.53	13.07	H	59.60	68.20	8.60	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_ VHT20. Worst case is MCS0 in 802.11ac_ VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	44.69	10.00	V	54.69	73.98	19.29	PK
11020	32.04	10.00	V	42.04	53.98	11.94	AV
16530	41.96	11.54	V	53.50	68.20	14.70	PK
11020	44.82	10.00	H	54.82	73.98	19.16	PK
11020	32.17	10.00	H	42.17	53.98	11.81	AV
16530	42.05	11.54	H	53.59	68.20	14.61	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	45.23	10.01	V	55.24	73.98	18.74	PK
11180	33.75	10.01	V	43.76	53.98	10.22	AV
16770	44.79	11.78	V	56.57	68.20	11.63	PK
11180	46.29	10.01	H	56.30	73.98	17.68	PK
11180	34.46	10.01	H	44.47	53.98	9.51	AV
16770	45.44	11.78	H	57.22	68.20	10.98	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	45.24	9.18	V	54.42	73.98	19.56	PK
11420	33.91	9.18	V	43.09	53.98	10.89	AV
17130	42.59	13.30	V	55.89	68.20	12.31	PK
11420	46.79	9.18	H	55.97	73.98	18.01	PK
11420	34.95	9.18	H	44.13	53.98	9.85	AV
17130	43.78	13.30	H	57.08	68.20	11.12	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	47.05	10.00	V	57.05	73.98	16.93	PK
11020	35.00	10.00	V	45.00	53.98	8.98	AV
16530	44.38	11.54	V	55.92	68.20	12.28	PK
11020	49.02	10.00	H	59.02	73.98	14.96	PK
11020	36.92	10.00	H	46.92	53.98	7.06	AV
16530	46.02	11.54	H	57.56	68.20	10.64	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11180	49.56	10.01	V	59.57	73.98	14.41	PK
11180	36.93	10.01	V	46.94	53.98	7.04	AV
16770	45.90	11.78	V	57.68	68.20	10.52	PK
11180	50.78	10.01	H	60.79	73.98	13.19	PK
11180	37.84	10.01	H	47.85	53.98	6.13	AV
16770	46.33	11.78	H	58.11	68.20	10.09	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	49.65	9.18	V	58.83	73.98	15.15	PK
11420	36.98	9.18	V	46.16	53.98	7.82	AV
17130	43.10	13.30	V	56.40	68.20	11.80	PK
11420	50.20	9.18	H	59.38	73.98	14.60	PK
11420	38.24	9.18	H	47.42	53.98	6.56	AV
17130	44.52	13.30	H	57.82	68.20	10.38	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	44.17	9.89	V	54.06	73.98	19.92	PK
11060	33.59	9.89	V	43.48	53.98	10.50	AV
16590	42.66	11.95	V	54.61	68.20	13.59	PK
11060	44.96	9.89	H	54.85	73.98	19.13	PK
11060	34.29	9.89	H	44.18	53.98	9.80	AV
16590	43.05	11.95	H	55.00	68.20	13.20	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	45.04	10.10	V	55.14	73.98	18.84	PK
11380	34.29	10.10	V	44.39	53.98	9.59	AV
17070	43.56	12.57	V	56.13	68.20	12.07	PK
11380	45.86	10.10	H	55.96	73.98	18.02	PK
11380	34.99	10.10	H	45.09	53.98	8.89	AV
17070	44.04	12.57	H	56.61	68.20	11.59	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	49.97	9.33	V	59.30	73.98	14.68	PK
11490	36.02	9.33	V	45.35	53.98	8.63	AV
17235	46.20	14.50	V	60.70	68.20	7.50	PK
11490	50.66	9.33	H	59.99	73.98	13.99	PK
11490	36.84	9.33	H	46.17	53.98	7.81	AV
17235	47.25	14.50	H	61.75	68.20	6.45	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	49.78	9.53	V	59.31	73.98	14.67	PK
11570	35.20	9.53	V	44.73	53.98	9.25	AV
17355	44.94	15.90	V	60.84	68.20	7.36	PK
11570	50.12	9.53	H	59.65	73.98	14.33	PK
11570	36.59	9.53	H	46.12	53.98	7.86	AV
17355	45.83	15.90	H	61.73	68.20	6.47	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	49.94	8.48	V	58.42	73.98	15.56	PK
11650	35.19	8.48	V	43.67	53.98	10.31	AV
17475	44.55	16.80	V	61.35	68.20	6.85	PK
11650	50.17	8.48	H	58.65	73.98	15.33	PK
11650	35.72	8.48	H	44.20	53.98	9.78	AV
17475	44.62	16.80	H	61.42	68.20	6.78	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	47.58	9.33	V	56.91	73.98	17.07	PK
11490	34.62	9.33	V	43.95	53.98	10.03	AV
17235	47.22	14.50	V	61.72	68.20	6.48	PK
11490	48.28	9.33	H	57.61	73.98	16.37	PK
11490	35.27	9.33	H	44.60	53.98	9.38	AV
17235	49.61	14.50	H	64.11	68.20	4.09	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	46.87	9.53	V	56.40	73.98	17.58	PK
11570	34.23	9.53	V	43.76	53.98	10.22	AV
17355	47.03	15.90	V	62.93	68.20	5.27	PK
11570	47.98	9.53	H	57.51	73.98	16.47	PK
11570	35.03	9.53	H	44.56	53.98	9.42	AV
17355	48.05	15.90	H	63.95	68.20	4.25	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	47.63	8.48	V	56.11	73.98	17.87	PK
11650	34.54	8.48	V	43.02	53.98	10.96	AV
17475	45.20	16.80	V	62.00	68.20	6.20	PK
11650	48.23	8.48	H	56.71	73.98	17.27	PK
11650	35.22	8.48	H	43.70	53.98	10.28	AV
17475	46.51	16.80	H	63.31	68.20	4.89	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	51.64	9.33	V	60.97	73.98	13.01	PK
11490	37.22	9.33	V	46.55	53.98	7.43	AV
17235	46.37	14.50	V	60.87	68.20	7.33	PK
11490	52.56	9.33	H	61.89	73.98	12.09	PK
11490	38.34	9.33	H	47.67	53.98	6.31	AV
17235	47.85	14.50	H	62.35	68.20	5.85	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	51.62	9.53	V	61.15	73.98	12.83	PK
11570	37.25	9.53	V	46.78	53.98	7.20	AV
17355	45.44	15.90	V	61.34	68.20	6.86	PK
11570	52.27	9.53	H	61.80	73.98	12.18	PK
11570	38.03	9.53	H	47.56	53.98	6.42	AV
17355	46.36	15.90	H	62.26	68.20	5.94	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	51.09	8.48	V	59.57	73.98	14.41	PK
11650	37.30	8.48	V	45.78	53.98	8.20	AV
17475	44.69	16.80	V	61.49	68.20	6.71	PK
11650	51.94	8.48	H	60.42	73.98	13.56	PK
11650	38.29	8.48	H	46.77	53.98	7.21	AV
17475	45.47	16.80	H	62.27	68.20	5.93	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	46.51	9.22	V	55.73	73.98	18.25	PK
11510	34.39	9.22	V	43.61	53.98	10.37	AV
17265	44.84	14.20	V	59.04	68.20	9.16	PK
11510	47.38	9.22	H	56.60	73.98	17.38	PK
11510	35.30	9.22	H	44.52	53.98	9.46	AV
17265	45.68	14.20	H	59.88	68.20	8.32	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	45.24	9.69	V	54.93	73.98	19.05	PK
11590	33.38	9.69	V	43.07	53.98	10.91	AV
17385	42.40	15.61	V	58.01	68.20	10.19	PK
11590	46.27	9.69	H	55.96	73.98	18.02	PK
11590	34.19	9.69	H	43.88	53.98	10.10	AV
17385	43.85	15.61	H	59.46	68.20	8.74	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	49.77	9.22	V	58.99	73.98	14.99	PK
11510	37.29	9.22	V	46.51	53.98	7.47	AV
17265	45.83	14.20	V	60.03	68.20	8.17	PK
11510	50.62	9.22	H	59.84	73.98	14.14	PK
11510	38.54	9.22	H	47.76	53.98	6.22	AV
17265	46.93	14.20	H	61.13	68.20	7.07	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	48.91	9.69	V	58.60	73.98	15.38	PK
11590	37.03	9.69	V	46.72	53.98	7.26	AV
17385	43.42	15.61	V	59.03	68.20	9.17	PK
11590	49.77	9.69	H	59.46	73.98	14.52	PK
11590	37.91	9.69	H	47.60	53.98	6.38	AV
17385	44.39	15.61	H	60.00	68.20	8.20	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	46.93	9.00	V	55.93	73.98	18.05	PK
11550	34.23	9.00	V	43.23	53.98	10.75	AV
17325	44.02	15.25	V	59.27	68.20	8.93	PK
11550	47.52	9.00	H	56.52	73.98	17.46	PK
11550	34.92	9.00	H	43.92	53.98	10.06	AV
17325	44.70	15.25	H	59.95	68.20	8.25	PK

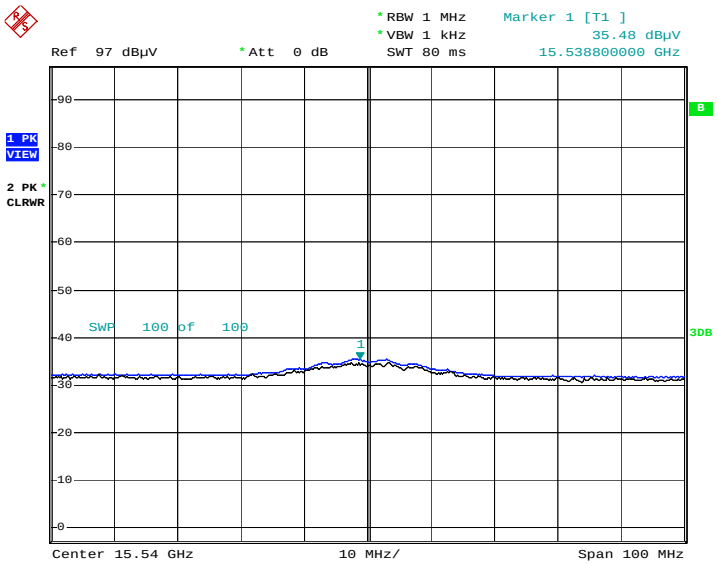
*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

Notes:

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

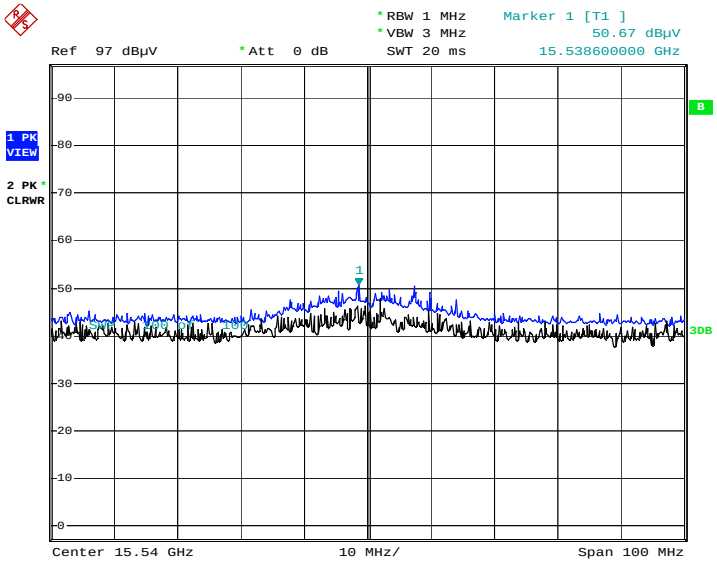
▣ RESULT PLOTS

Radiated Spurious Emissions plot –Average Reading (802.11a, Ch.36 3rd Harmonic, Y-H)



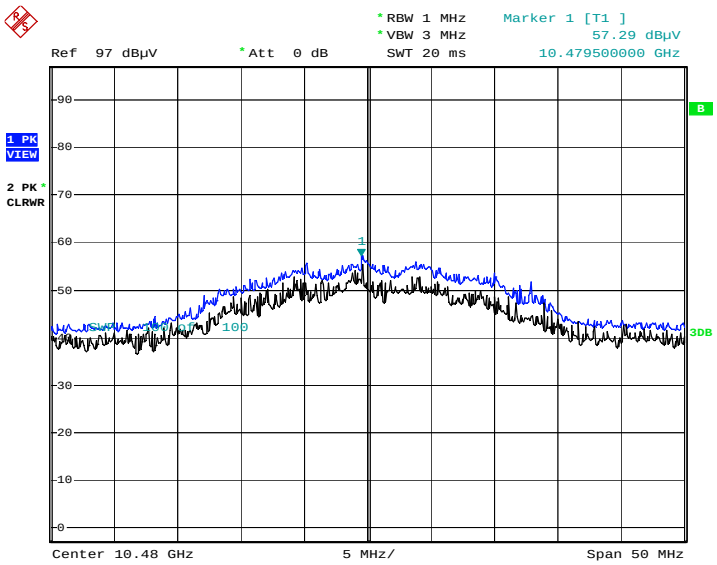
Date: 17.MAY.2003 08:35:24

Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.36 3rd Harmonic, Y-H)



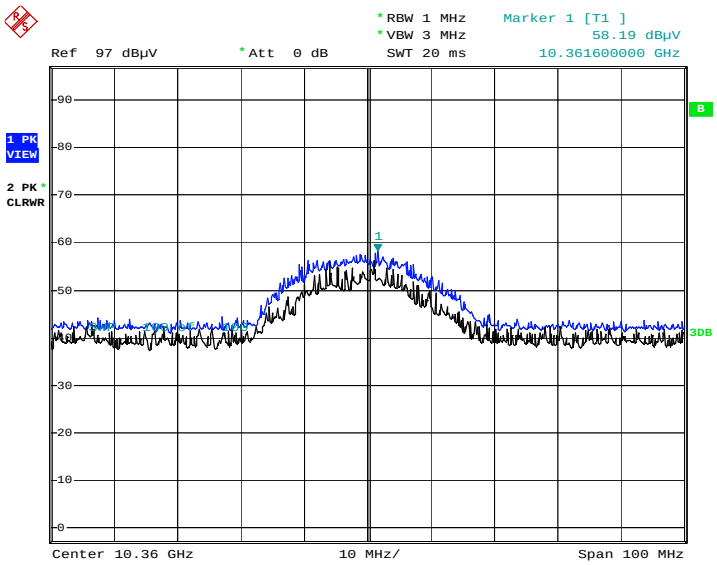
Date: 17.MAY.2003 08:36:00

Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.48 2nd Harmonic, Y-H)



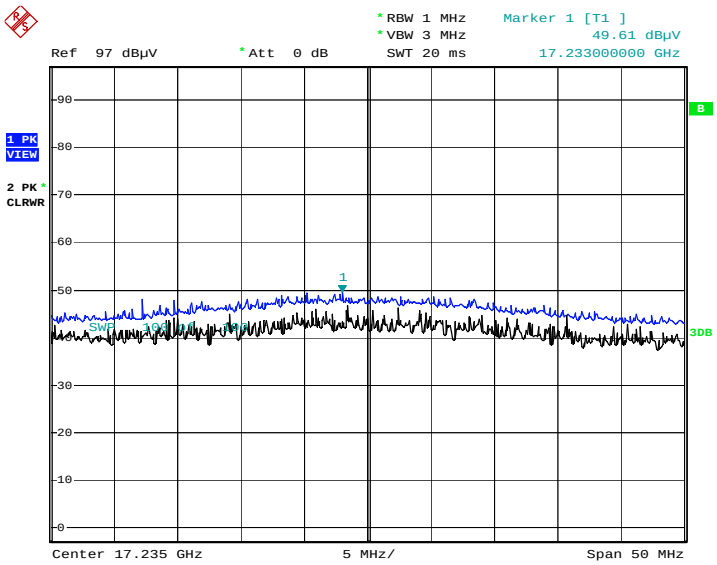
Date: 18.MAY.2003 01:21:34

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT20, Ch.36 2nd Harmonic, Y-H)



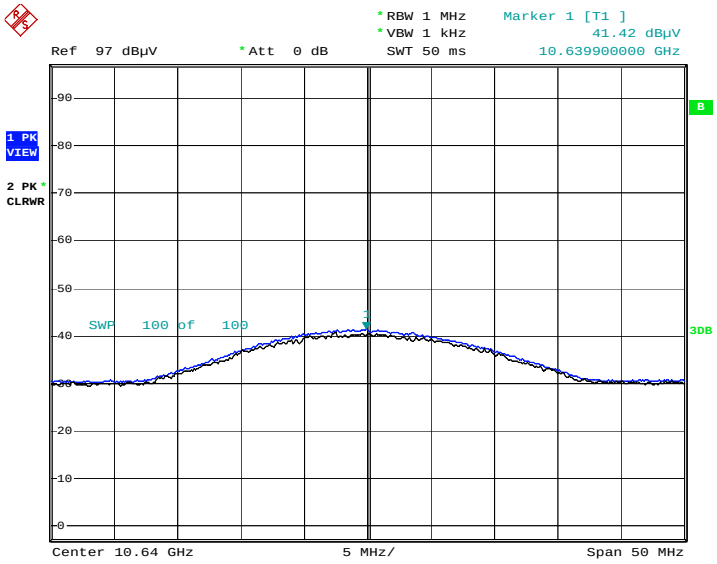
Date: 17.MAY.2003 12:23:52

Radiated Spurious Emissions plot – Peak Reading(802.11n_HT20, Ch.149 3rd Harmonic, Z-H)



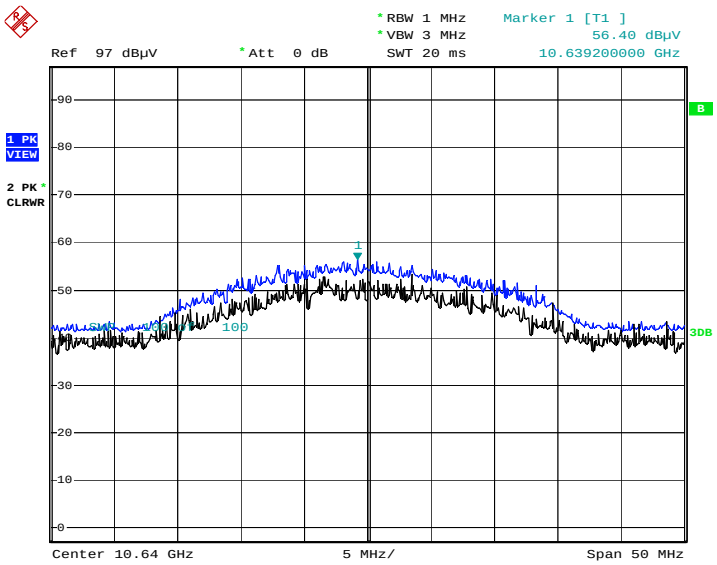
Date: 18.MAY.2003 08:09:06

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT20, Ch.64 2nd Harmonic, Y-H)



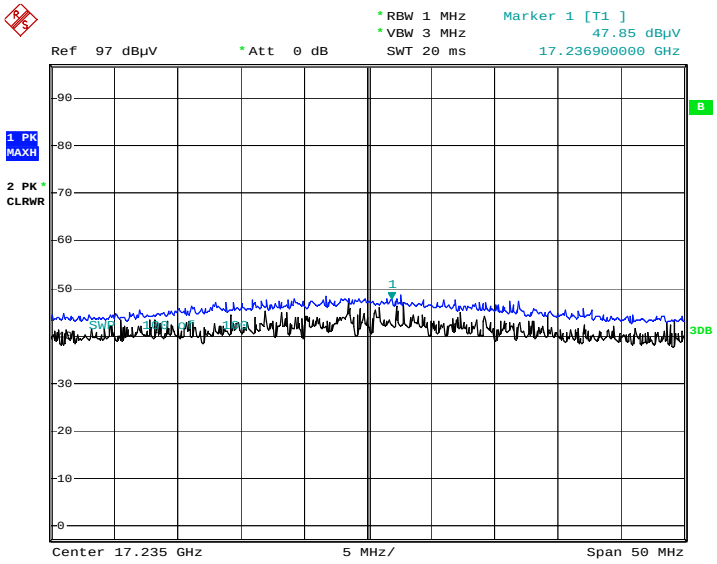
Date: 18.MAY.2003 03:10:50

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT20, Ch.64 2nd Harmonic, Y-H)



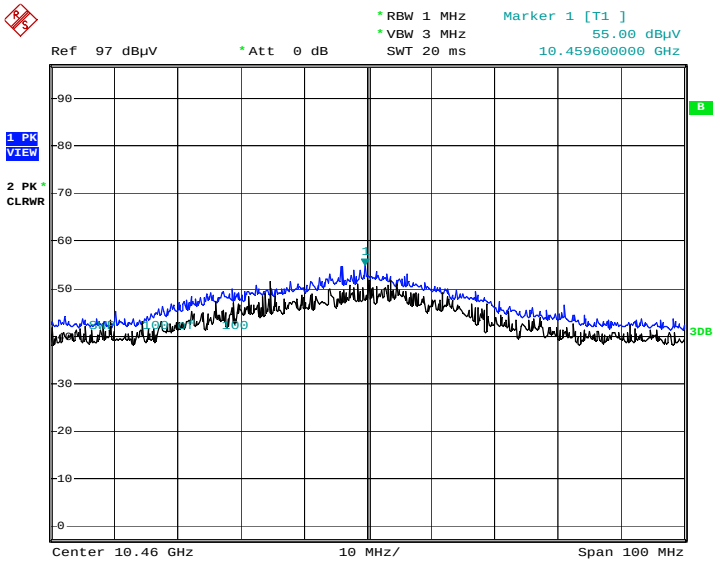
Date: 18.MAY.2003 03:11:20

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT20, Ch.149 3rd Harmonic, Z-H)



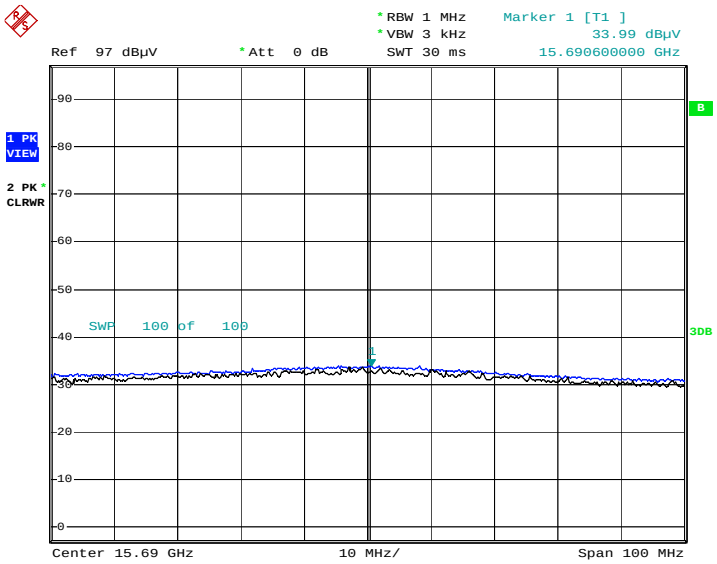
Date: 18.MAY.2003 08:12:16

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT40, Ch.46 2nd Harmonic, Y-H)



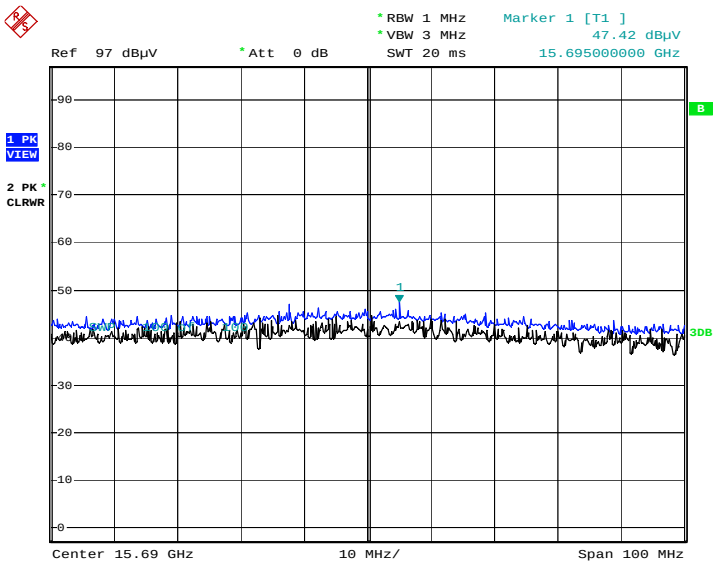
Date: 18.MAY.2003 01:42:00

Radiated Spurious Emissions plot – Average Reading (802.11n_HT40, Ch.46 3rd Harmonic, Y-H)



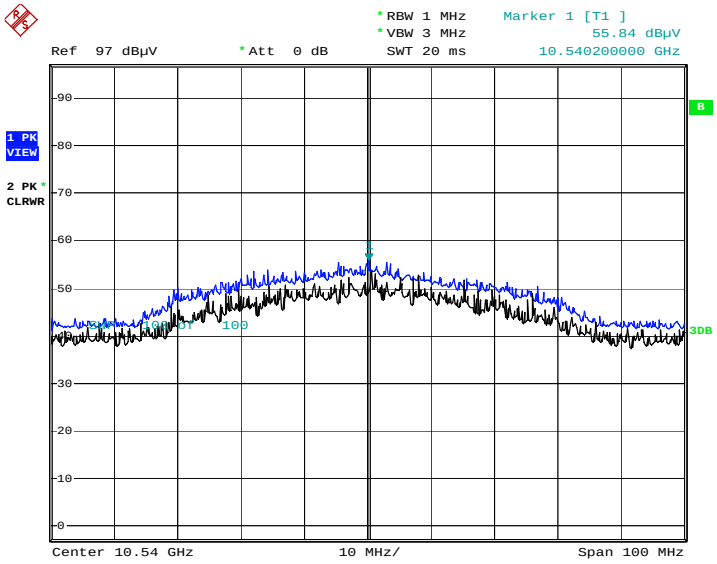
Date: 18.MAY.2003 01:48:56

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT40, Ch.46 3rd Harmonic, Y-H)



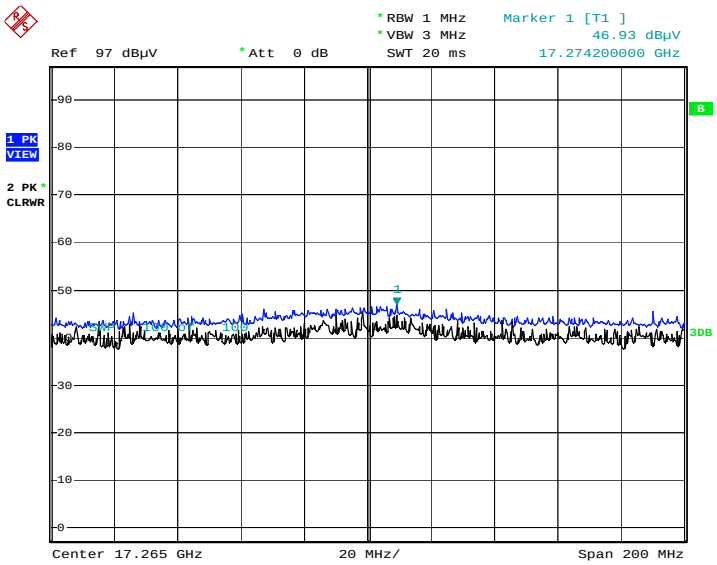
Date: 18.MAY.2003 01:49:35

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT40, Ch.54 2nd Harmonic, Y-H)



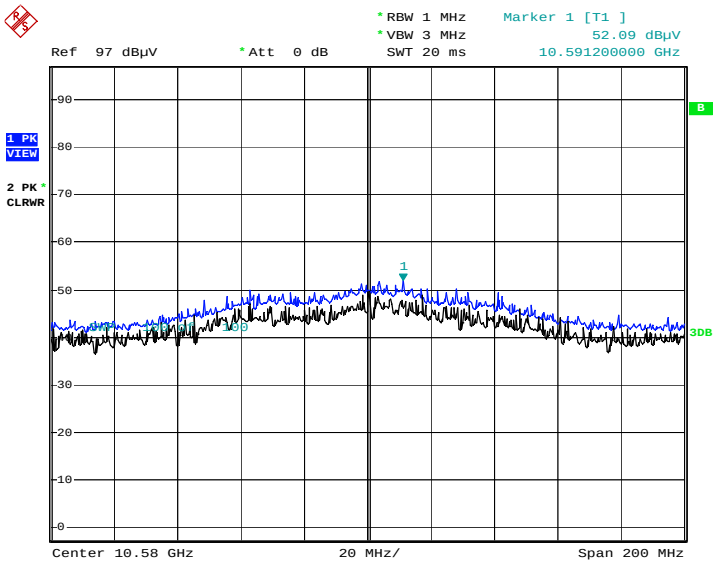
Date: 18.MAY.2003 04:53:46

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT40, Ch.151 3rd Harmonic, Z-H)



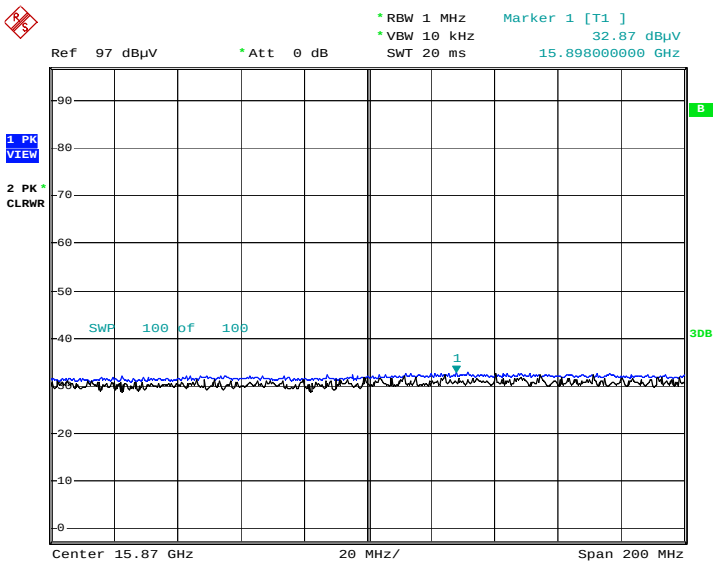
Date: 18.MAY.2003 08:26:46

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT80, Ch.58 2nd Harmonic, Y-H)



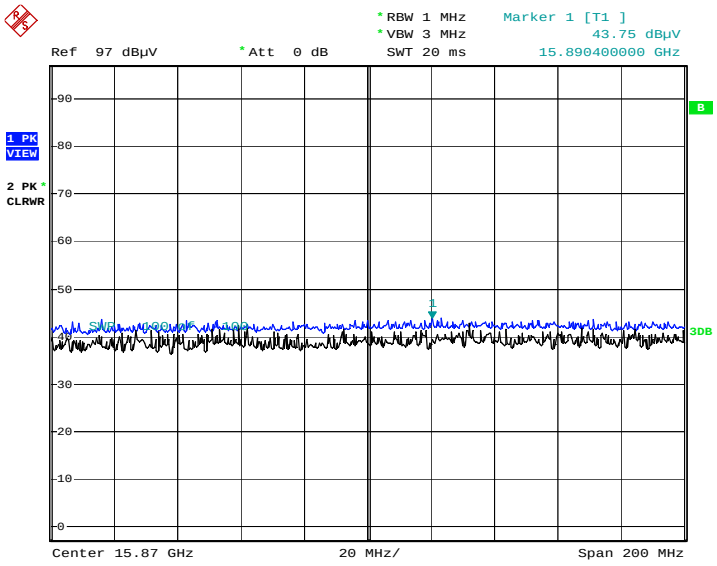
Date: 18.MAY.2003 02:24:57

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT80, Ch.58 3rd Harmonic, Y-H)



Date: 18.MAY.2003 02:30:46

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT80, Ch.58 3rd Harmonic, Y-H)



Date: 18.MAY.2003 02:30:09

Note : Only the worst case plots for Radiated Spurious Emissions.

9.9.2 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)).

[MIMO]

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	56.13	5.97	H	62.10	73.98	11.88	PK
5150	42.85	5.97	H	48.82	53.98	5.16	AV
5150	55.69	5.97	V	61.66	73.98	12.32	PK
5150	42.05	5.97	V	48.02	53.98	5.96	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.81	5.97	H	67.78	73.98	6.20	PK
5150	44.74	5.97	H	50.71	53.98	3.27	AV
5150	60.30	5.97	V	66.27	73.98	7.71	PK
5150	43.27	5.97	V	49.24	53.98	4.74	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.47	5.97	H	66.44	73.98	7.54	PK
5150	44.88	5.97	H	50.85	53.98	3.13	AV
5150	59.56	5.97	V	65.53	73.98	8.45	PK
5150	43.32	5.97	V	49.29	53.98	4.69	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	58.31	5.97	H	64.28	73.98	9.70	PK
5150	43.97	5.97	H	49.94	53.98	4.04	AV
5150	57.92	5.97	V	63.89	73.98	10.09	PK
5150	42.68	5.97	V	48.65	53.98	5.33	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.15	5.97	H	66.12	73.98	7.86	PK
5150	44.29	5.97	H	50.26	53.98	3.72	AV
5150	59.62	5.97	V	65.59	73.98	8.39	PK
5150	43.54	5.97	V	49.51	53.98	4.47	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	55.16	5.97	H	61.13	73.98	12.85	PK
5150	44.48	5.97	H	50.45	53.98	3.53	AV
5150	54.50	5.97	V	60.47	73.98	13.51	PK
5150	43.27	5.97	V	49.24	53.98	4.74	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.49	6.98	H	68.47	73.98	5.51	PK
5350	41.86	6.98	H	48.84	53.98	5.14	AV
5350	59.75	6.98	V	66.73	73.98	7.25	PK
5350	41.06	6.98	V	48.04	53.98	5.94	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.29	6.98	H	67.27	73.98	6.71	PK
5350	41.87	6.98	H	48.85	53.98	5.13	AV
5350	59.15	6.98	V	66.13	73.98	7.85	PK
5350	40.95	6.98	V	47.93	53.98	6.05	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.34	6.98	H	68.32	73.98	5.66	PK
5350	41.93	6.98	H	48.91	53.98	5.07	AV
5350	60.10	6.98	V	67.08	73.98	6.90	PK
5350	41.08	6.98	V	48.06	53.98	5.92	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.09	6.98	H	67.07	73.98	6.91	PK
5350	43.41	6.98	H	50.39	53.98	3.59	AV
5350	58.96	6.98	V	65.94	73.98	8.04	PK
5350	42.70	6.98	V	49.68	53.98	4.30	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.42	6.98	H	68.40	73.98	5.58	PK
5350	43.85	6.98	H	50.83	53.98	3.15	AV
5350	60.11	6.98	V	67.09	73.98	6.89	PK
5350	42.79	6.98	V	49.77	53.98	4.21	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	53.75	6.98	H	60.73	73.98	13.25	PK
5350	43.79	6.98	H	50.77	53.98	3.21	AV
5350	52.77	6.98	V	59.75	73.98	14.23	PK
5350	42.63	6.98	V	49.61	53.98	4.37	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.97	6.17	H	59.14	73.98	14.84	PK
5460	39.96	6.17	H	46.13	53.98	7.85	AV
5470	52.77	6.23	H	59	68.20	9.20	PK
5460	52.20	6.17	V	58.37	73.98	15.61	PK
5460	39.54	6.17	V	45.71	53.98	8.27	AV
5470	52.34	6.23	V	58.57	68.20	9.63	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.78	6.17	H	58.95	73.98	15.03	PK
5460	39.81	6.17	H	45.98	53.98	8.00	AV
5470	53.58	6.23	H	59.81	68.20	8.39	PK
5460	52.07	6.17	V	58.24	73.98	15.74	PK
5460	39.42	6.17	V	45.59	53.98	8.39	AV
5470	53.11	6.23	V	59.34	68.20	8.86	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.93	6.17	H	59.10	73.98	14.88	PK
5460	40.11	6.17	H	46.28	53.98	7.70	AV
5470	53.13	6.23	H	59.36	68.20	8.84	PK
5460	51.56	6.17	V	57.73	73.98	16.25	PK
5460	39.84	6.17	V	46.01	53.98	7.97	AV
5470	52.87	6.23	V	59.1	68.20	9.10	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.40	6.17	H	58.57	73.98	15.41	PK
5460	43.14	6.17	H	49.31	53.98	4.67	AV
5470	58.24	6.23	H	64.47	68.20	3.73	PK
5460	51.66	6.17	V	57.83	73.98	16.15	PK
5460	42.19	6.17	V	48.36	53.98	5.62	AV
5470	57.65	6.23	V	63.88	68.20	4.32	PK

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.11	6.17	H	58.28	73.98	15.70	PK
5460	43.51	6.17	H	49.68	53.98	4.30	AV
5470	58.95	6.23	H	65.18	68.20	3.02	PK
5460	52.05	6.17	V	58.22	73.98	15.76	PK
5460	42.79	6.17	V	48.96	53.98	5.02	AV
5470	57.69	6.23	V	63.92	68.20	4.28	PK

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

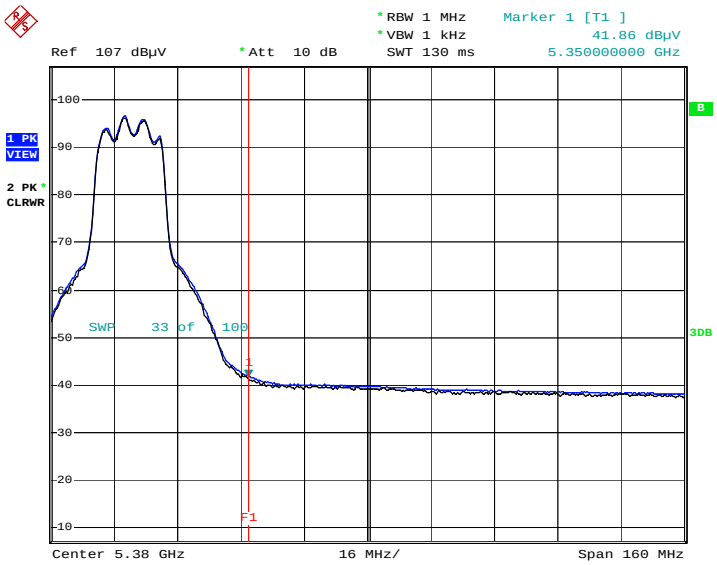
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	52.24	6.17	H	58.41	73.98	15.57	PK
5460	41.30	6.17	H	47.47	53.98	6.51	AV
5470	52.30	6.23	H	58.53	68.20	9.67	PK
5460	52.10	6.17	V	58.27	73.98	15.71	PK
5460	40.59	6.17	V	46.76	53.98	7.22	AV
5470	52.60	6.23	V	58.83	68.20	9.37	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT + Distance Factor
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

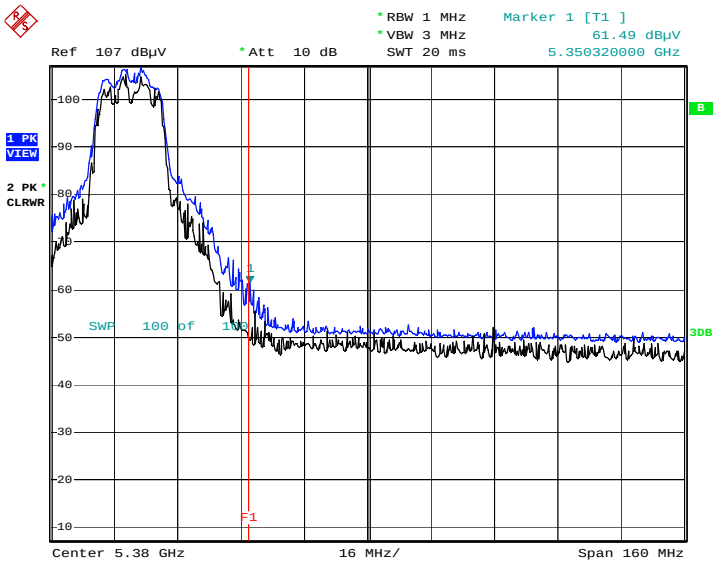
▣ RESULT PLOTS (Worst Case: X-H)

Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.64)



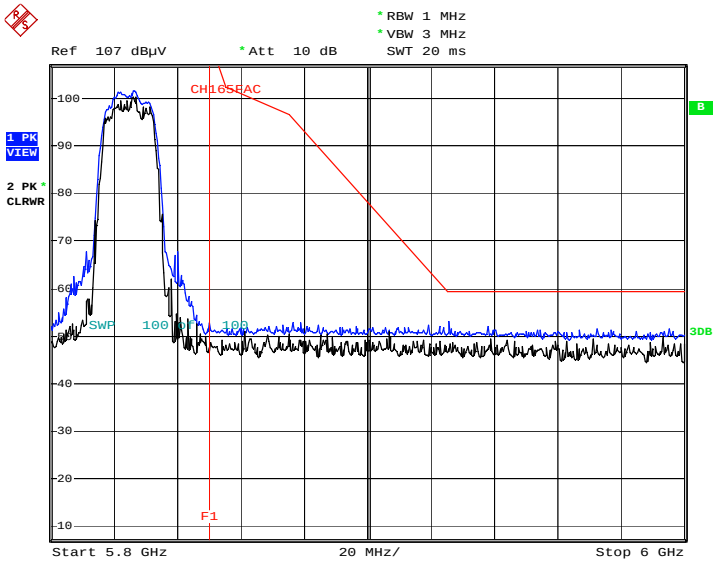
Date: 17.MAY.2003 02:10:34

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.64)



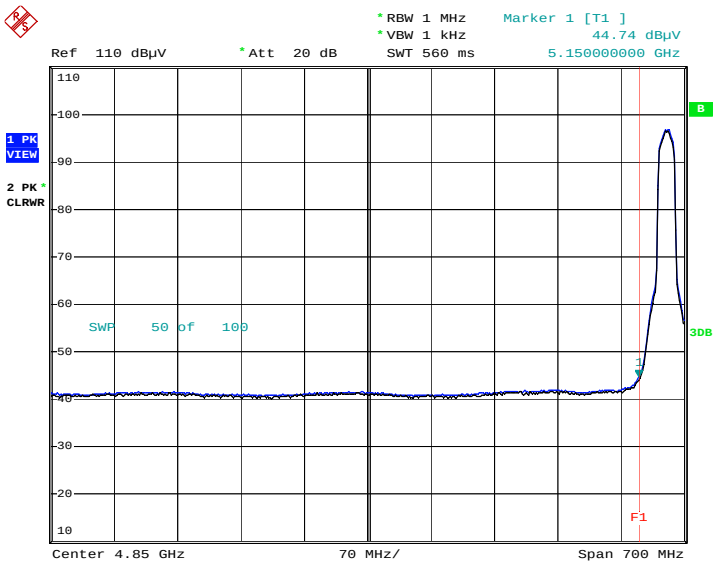
Date: 17.MAY.2003 02:11:28

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.165)



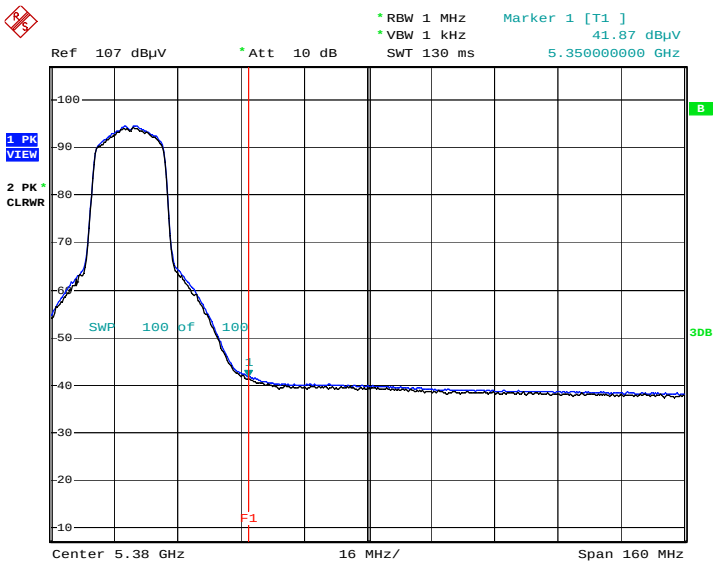
Date: 17.MAY.2003 06:16:30

Radiated Restricted Band Edges plot – Average Reading (802.11n_HT20, Ch.36)



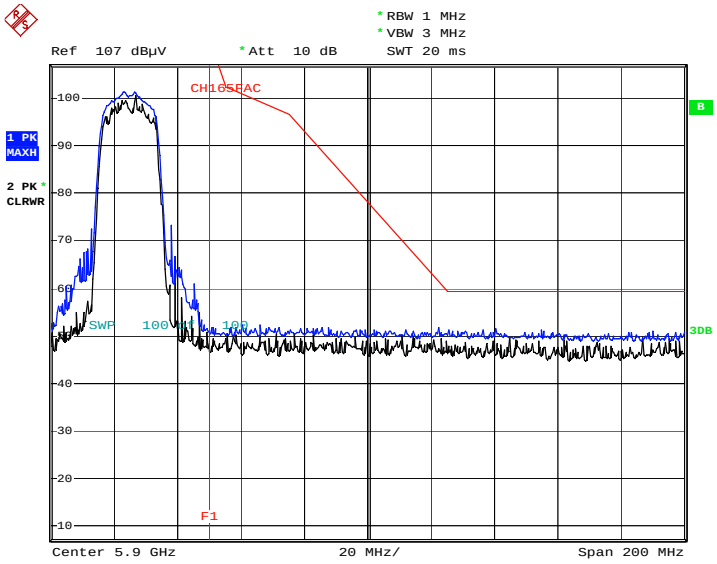
Date: 16.MAY.2003 07:09:42

Radiated Restricted Band Edges plot – Average Reading (802.11n_HT20, Ch.64)



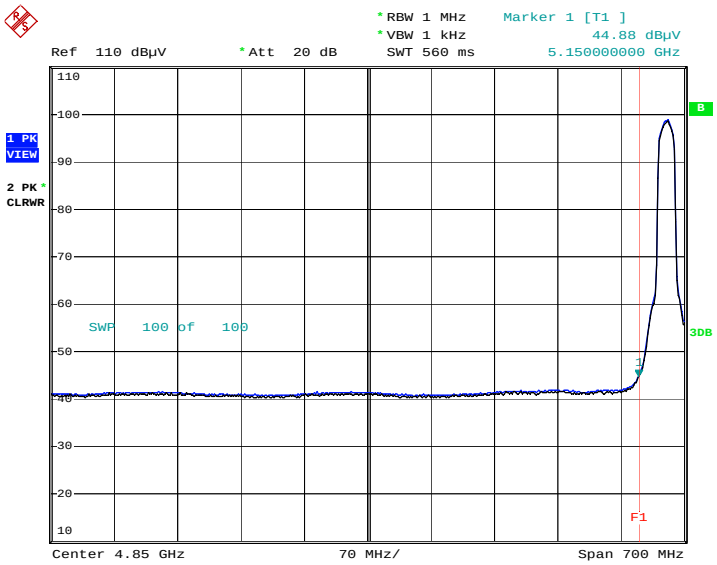
Date: 17.MAY.2003 02:13:28

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20, Ch.165)



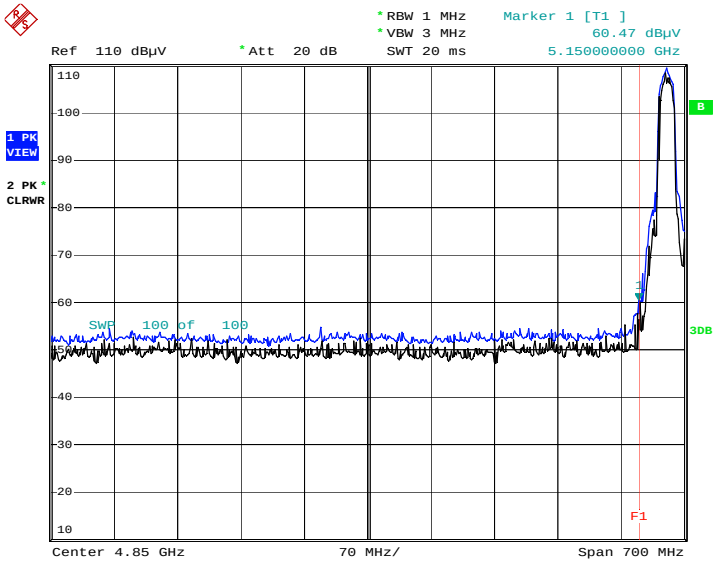
Date: 17.MAY.2003 06:17:25

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT20, Ch.36)



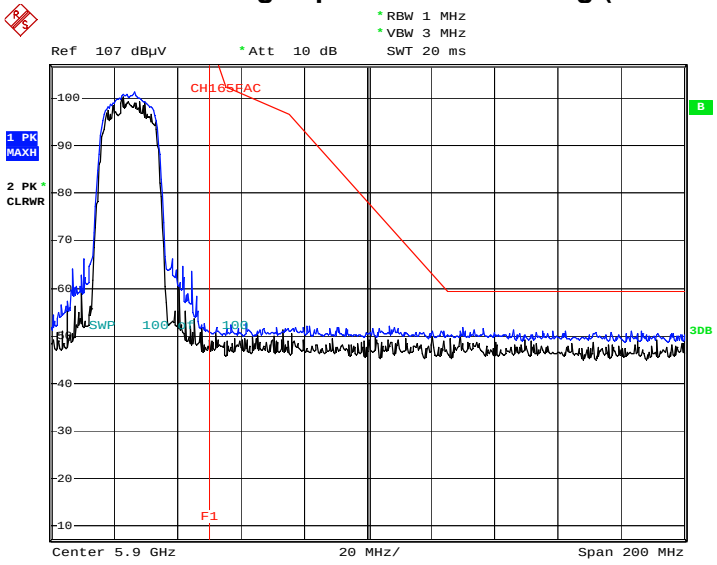
Date: 16.MAY.2003 07:50:22

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20, Ch.36)



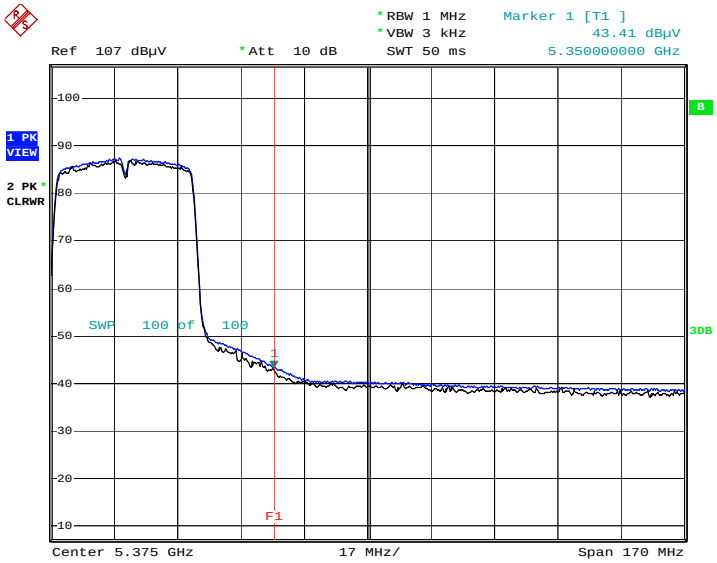
Date: 16.MAY.2003 07:46:30

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20, Ch.165)



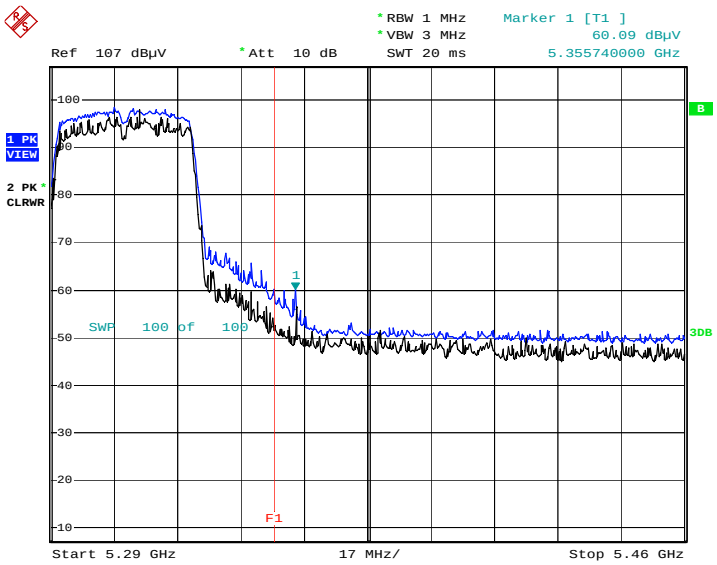
Date: 17.MAY.2003 06:18:04

Radiated Restricted Band Edges plot – Average Reading (802.11n_HT40, Ch.62)



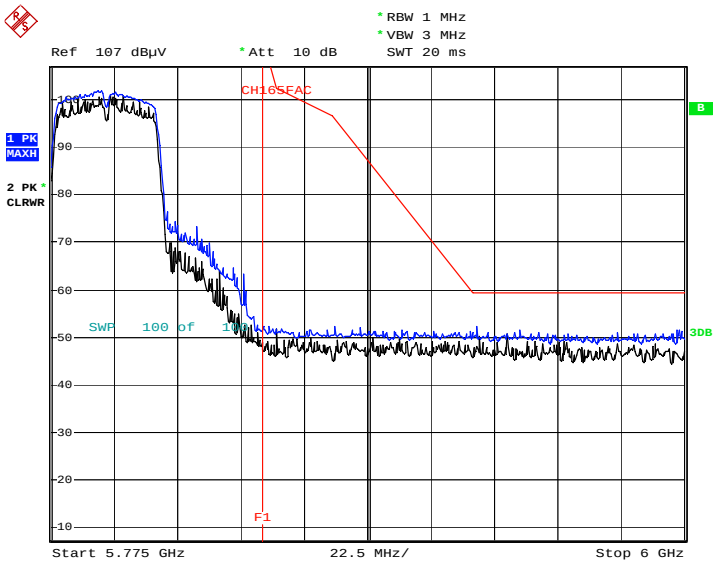
Date: 17.MAY.2003 02:34:25

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40, Ch.62)



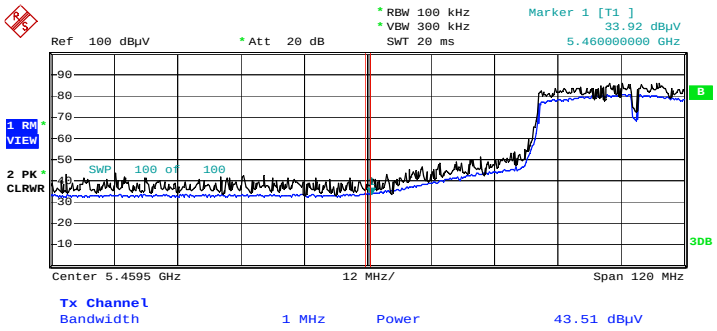
Date: 17.MAY.2003 02:33:44

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40, Ch.159)



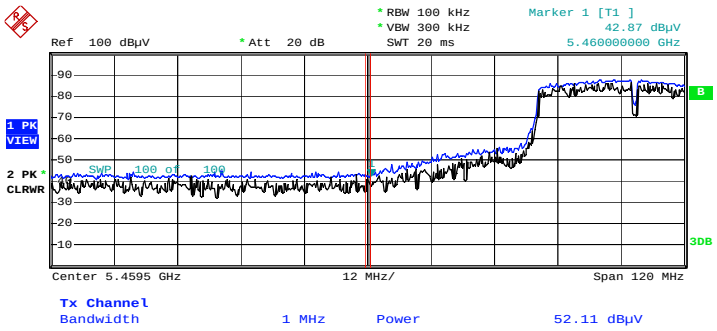
Date: 17.MAY.2003 06:19:19

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT40, Ch.102)



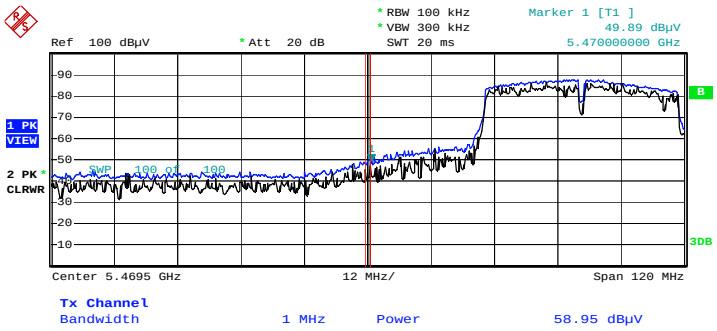
Date: 18.MAY.2003 10:09:06

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40, Ch.102)



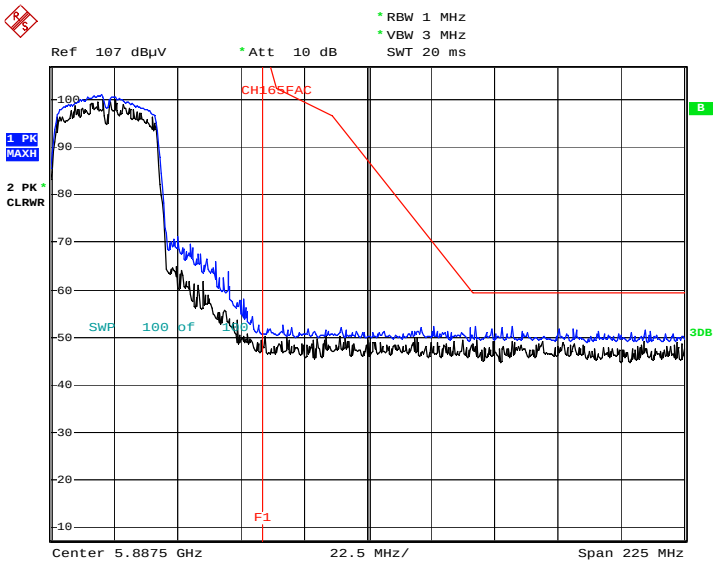
Date: 18.MAY.2003 10:08:33

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40, Ch.102)



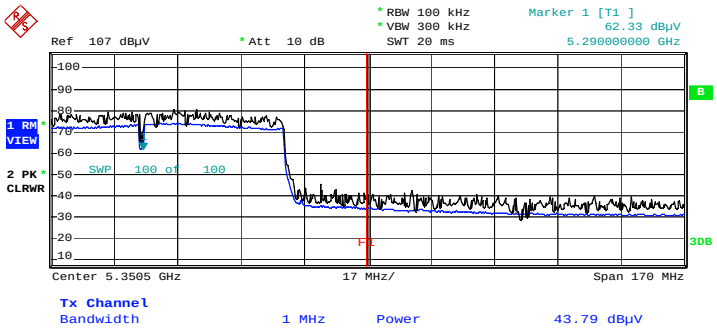
Date: 18.MAY.2003 10:07:56

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40, Ch.159)



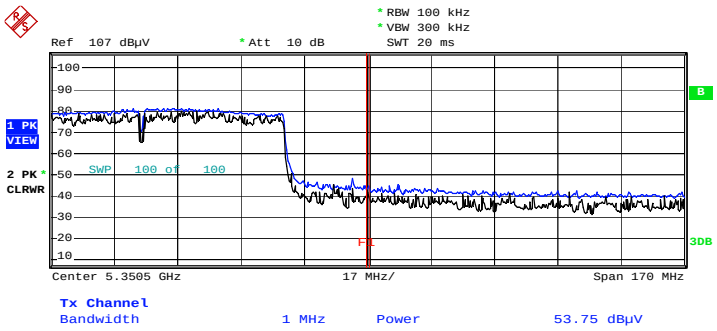
Date: 17.MAY.2003 06:20:11

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT80, Ch.58)



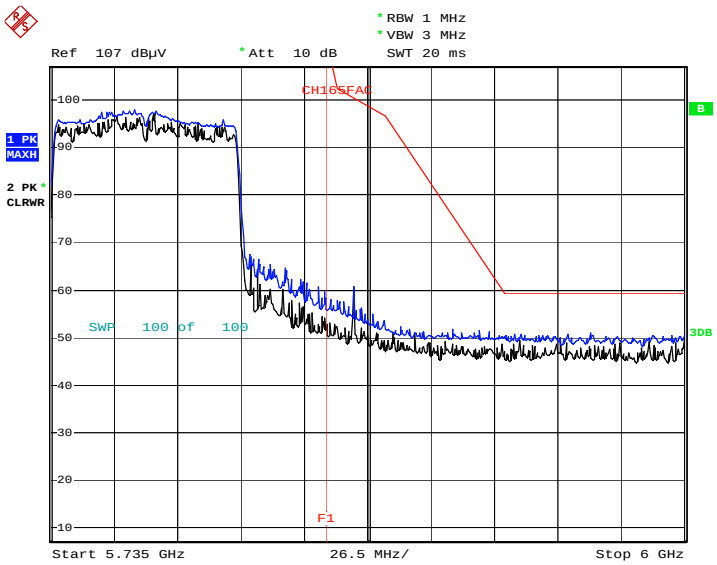
Date: 17.MAY.2003 02:58:25

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80, Ch.58)



Date: 17.MAY.2003 02:58:52

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80, Ch.155)



Date: 17.MAY.2003 06:21:10

9.9.3 RECEIVER SPURIOUS EMISSIONS

ISED Rule(s)	**RSS-Gen**
Test Requirements:	**Blow the table**
Operating conditions:	**Under normal test conditions**
Method of testing:	**Radiated**
S/A. Settings:	**F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)** **F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)**
Mode of operation:	**Receive**

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

Operation Mode: Receive:

30 MHz ~ 1 GHz

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

Above 1 GHz

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

9.10 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

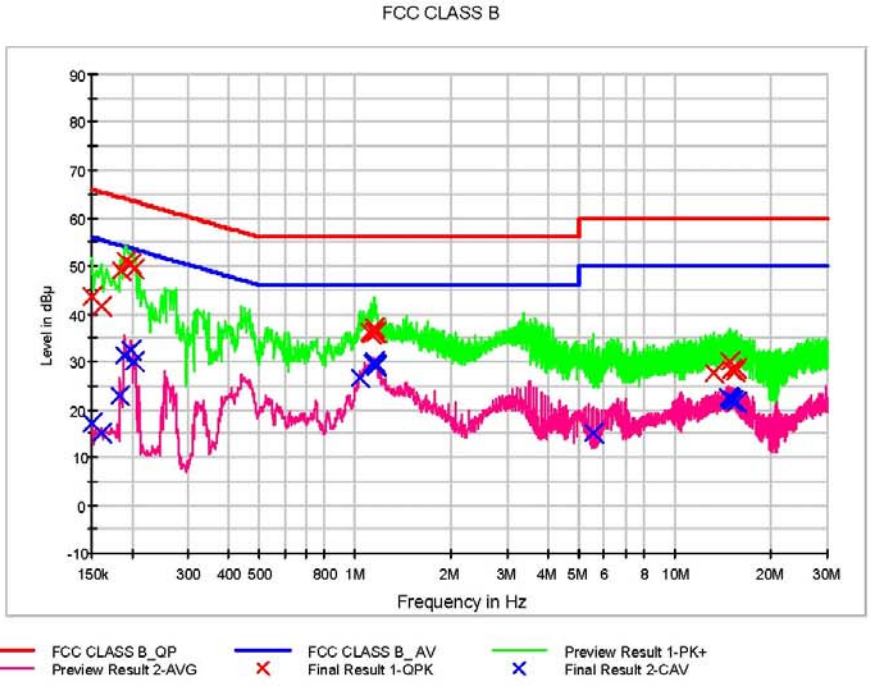
Conducted Emissions (Line 1)

EMI Auto Test(3) 1 / 2

HCT TEST Report

Common Information

EUT:	LGSBWAC92
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	5G WLAN_MODE_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	43.7	9.000	Off	N	9.6	22.3	66.0
0.160000	41.6	9.000	Off	N	9.6	23.9	65.5
0.186000	49.0	9.000	Off	N	9.6	15.2	64.2
0.192000	50.9	9.000	Off	N	9.6	13.0	63.9
0.198000	50.3	9.000	Off	N	9.6	13.4	63.7
0.204000	49.4	9.000	Off	N	9.6	14.0	63.4
1.112000	36.2	9.000	Off	N	9.7	19.8	56.0
1.128000	35.7	9.000	Off	N	9.7	20.3	56.0
1.142000	37.1	9.000	Off	N	9.7	18.9	56.0
1.154000	36.2	9.000	Off	N	9.7	19.8	56.0
1.160000	36.2	9.000	Off	N	9.7	19.8	56.0
1.164000	36.1	9.000	Off	N	9.7	19.9	56.0
13.246000	27.6	9.000	Off	N	10.1	32.4	60.0
14.832000	29.8	9.000	Off	N	10.1	30.2	60.0
14.900000	30.1	9.000	Off	N	10.1	29.9	60.0
15.014000	28.2	9.000	Off	N	10.1	31.8	60.0
15.326000	28.1	9.000	Off	N	10.1	31.9	60.0
15.636000	28.6	9.000	Off	N	10.1	31.4	60.0

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EMI Auto Test(3) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	17.2	9.000	Off	N	9.6	38.8	56.0
0.160000	15.2	9.000	Off	N	9.6	40.3	55.5
0.184000	22.8	9.000	Off	N	9.6	31.5	54.3
0.190000	31.4	9.000	Off	N	9.6	22.7	54.0
0.198000	32.4	9.000	Off	N	9.6	21.3	53.7
0.204000	29.9	9.000	Off	N	9.6	23.6	53.4
1.028000	26.6	9.000	Off	N	9.7	19.4	46.0
1.130000	29.6	9.000	Off	N	9.7	16.4	46.0
1.142000	30.1	9.000	Off	N	9.7	15.9	46.0
1.154000	29.4	9.000	Off	N	9.7	16.6	46.0
1.160000	29.2	9.000	Off	N	9.7	16.8	46.0
1.166000	29.1	9.000	Off	N	9.7	16.9	46.0
5.586000	15.0	9.000	Off	N	9.9	35.0	50.0
14.760000	22.5	9.000	Off	N	10.1	27.5	50.0
14.832000	22.2	9.000	Off	N	10.1	27.8	50.0
15.014000	21.8	9.000	Off	N	10.1	28.2	50.0
15.138000	21.9	9.000	Off	N	10.1	28.1	50.0
15.636000	21.4	9.000	Off	N	10.1	28.6	50.0

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Conducted Emissions (Line 2)

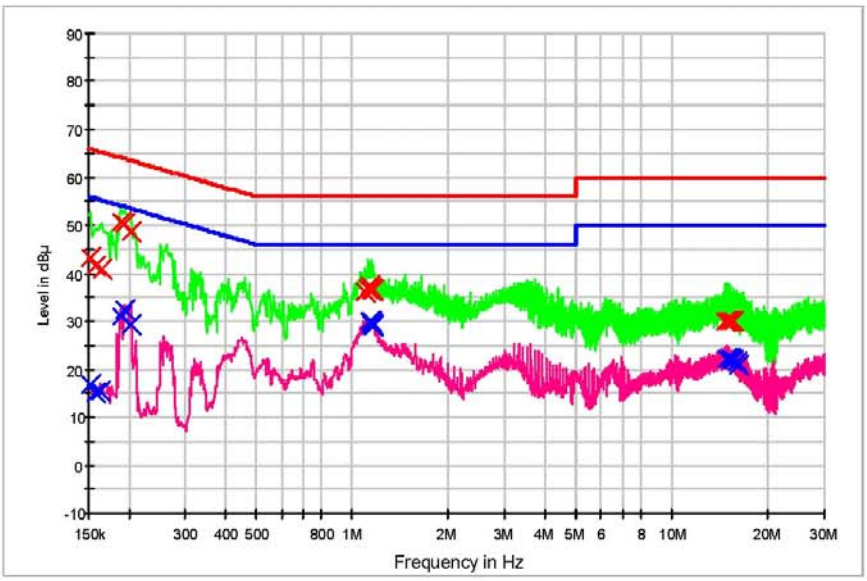
EMI Auto Test(3) 1 / 2

HCT TEST Report

Common Information

EUT:	LGSBWAC92
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN 5G_MODE_L1

FCC CLASS B



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	43.3	9.000	Off	L1	9.6	22.5	65.9
0.158000	41.7	9.000	Off	L1	9.6	23.9	65.6
0.164000	40.9	9.000	Off	L1	9.6	24.4	65.3
0.190000	50.6	9.000	Off	L1	9.6	13.4	64.0
0.194000	50.2	9.000	Off	L1	9.6	13.6	63.9
0.204000	48.7	9.000	Off	L1	9.6	14.7	63.4
1.100000	36.0	9.000	Off	L1	9.7	20.0	56.0
1.122000	36.8	9.000	Off	L1	9.7	19.2	56.0
1.140000	37.4	9.000	Off	L1	9.7	18.6	56.0
1.144000	36.8	9.000	Off	L1	9.7	19.2	56.0
1.154000	36.4	9.000	Off	L1	9.7	19.6	56.0
1.162000	36.4	9.000	Off	L1	9.7	19.6	56.0
14.620000	30.1	9.000	Off	L1	10.0	29.9	60.0
14.826000	30.0	9.000	Off	L1	10.0	30.0	60.0
15.034000	30.0	9.000	Off	L1	10.0	30.0	60.0
15.174000	30.1	9.000	Off	L1	10.0	29.9	60.0
15.242000	30.1	9.000	Off	L1	10.0	29.9	60.0
15.656000	29.9	9.000	Off	L1	10.0	30.1	60.0

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EMI Auto Test(3) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	16.6	9.000	Off	L1	9.6	39.3	55.9
0.158000	15.1	9.000	Off	L1	9.6	40.5	55.6
0.162000	15.6	9.000	Off	L1	9.6	39.8	55.4
0.190000	31.0	9.000	Off	L1	9.6	23.1	54.0
0.194000	32.4	9.000	Off	L1	9.6	21.5	53.9
0.204000	29.4	9.000	Off	L1	9.6	24.0	53.4
1.136000	30.0	9.000	Off	L1	9.7	16.0	46.0
1.144000	29.8	9.000	Off	L1	9.7	16.2	46.0
1.148000	29.8	9.000	Off	L1	9.7	16.2	46.0
1.154000	29.4	9.000	Off	L1	9.7	16.6	46.0
1.164000	29.3	9.000	Off	L1	9.7	16.7	46.0
1.168000	29.1	9.000	Off	L1	9.7	16.9	46.0
14.826000	22.3	9.000	Off	L1	10.0	27.7	50.0
15.174000	22.2	9.000	Off	L1	10.0	27.8	50.0
15.448000	21.9	9.000	Off	L1	10.0	28.1	50.0
15.656000	21.8	9.000	Off	L1	10.0	28.2	50.0
15.864000	21.5	9.000	Off	L1	10.0	28.5	50.0
16.070000	20.9	9.000	Off	L1	10.0	29.1	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	12/20/2017	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 /Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/22/2017	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2017	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/17/2018	Annual	100422

10.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/21/2017	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/27/2017	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	08/01/2017	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	07/10/2018	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/03/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2018	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	2
WEINSCHEL	56-10 / Attenuator(10 dB)	10/13/2017	Annual	72316
CERNEX	CBLU1183540 / Broadband Low Noise Amplifier	01/03/2018	Annual	24613
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2018	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	Annual	3000C000276

11. APPENDIX A_EUT AND TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1807-FI016-P