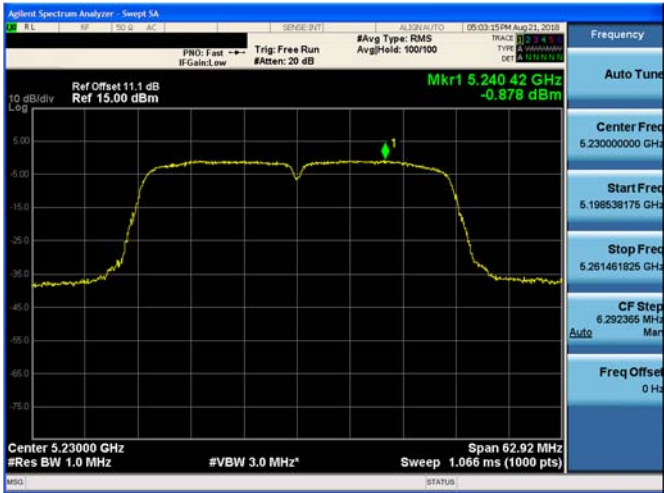
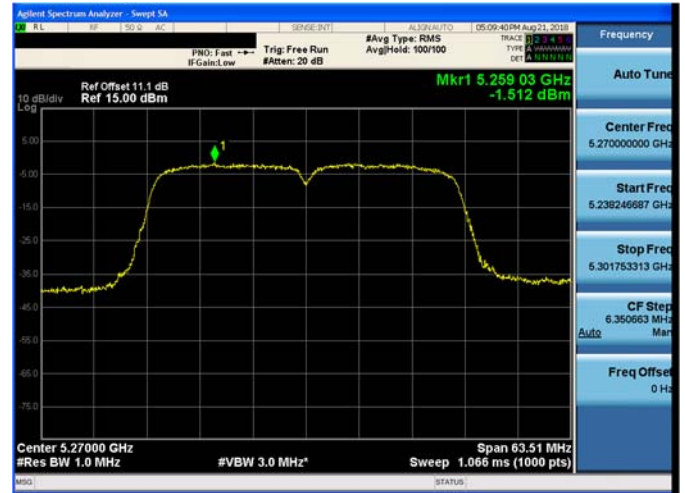


■ TEST Plot for 802.11ac_VHT40

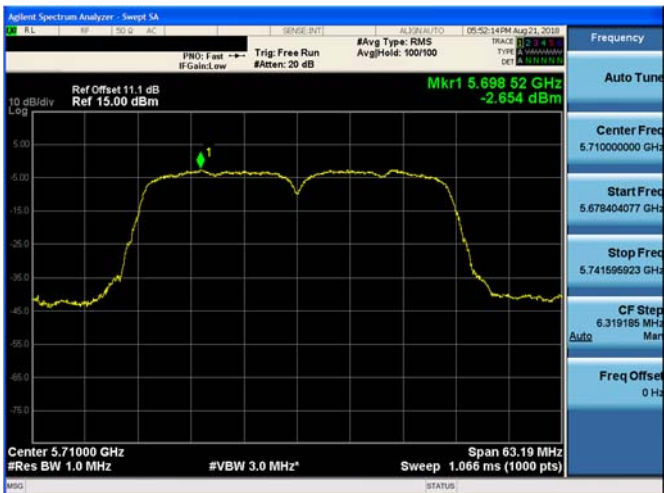
802.11ac_VHT40 UNII 1 BAND PSD CH 46



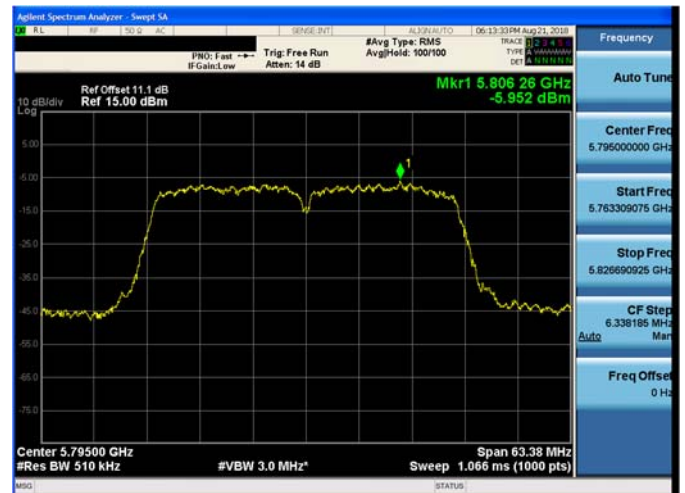
802.11ac_VHT40 UNII 2A BAND PSD CH 54



802.11ac_VHT40 UNII 2C BAND PSD CH 142



802.11ac_VHT40 UNII 3 BAND PSD CH 159



■ 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	-6.714	1.007	-5.707	11	Pass
5290	58		-9.455	2.430	-7.025	11	Pass
5530	106		-8.925	2.819	-6.106	11	Pass
5610	122		-5.360	0.849	-4.511		Pass
5690	138		-5.687	2.430	-3.257		Pass
5775	155		-7.912	0.547	-7.365	30	Pass

■ TEST Plot for 802.11ac_VHT80

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
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	2.021	0.508	2.529	11.00	Pass
		802.11n	0.321	3.128	3.449	11.00	Pass
		802.11ac	0.152	2.843	2.995	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	-1.676	0.508	-1.168	30.00	Pass
		802.11n	-2.315	3.128	0.813	30.00	Pass
		802.11ac	-3.194	2.843	-0.351	30.00	Pass

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

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 802.11n_HT40/ac_VHT40
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	-1.738	2.236	0.498	11.00	Pass
		802.11ac	-4.381	3.390	-0.991	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	-5.862	2.236	-3.626	30.00	Pass
		802.11ac	-8.321	3.390	-4.931	30.00	Pass

■ Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40

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**

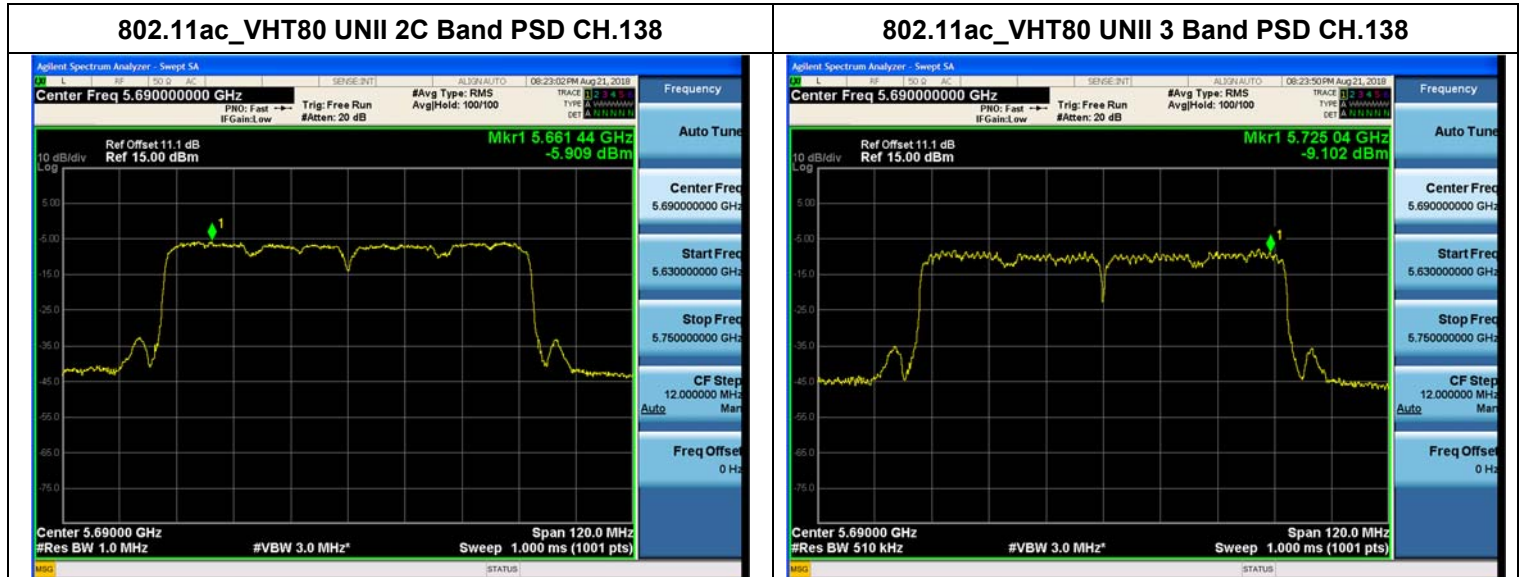
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

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	-5.909	2.430	-3.479	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	-9.102	2.430	-6.672	30.00	Pass

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



9.5 FREQUENCY STABILITY.

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

§2.1055 Measurements required: Frequency stability.

The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

20 MHz BW_ Startup

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180028.54	28.54
100%		-30	5180032.58	32.58
100%		-20	5180030.25	30.25
100%		-10	5180027.44	27.44
100%		0	5180025.33	25.33
100%		+10	5180026.98	26.98
100%		+30	5180027.45	27.45
100%		+40	5180035.69	35.69
100%		+50	5180039.54	39.54
End. Point	3.50	+20	5180038.24	38.24

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260030.25	30.25
100%		-30	5260045.25	45.25
100%		-20	5260041.36	41.36
100%		-10	5260035.24	35.24
100%		0	5260032.98	32.98
100%		+10	5260030.25	30.25
100%		+30	5260030.98	30.98
100%		+40	5260034.23	34.23
100%		+50	5260039.45	39.45
End. Point	3.50	+20	5260040.36	40.36

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500029.35	29.35
100%		-30	5500044.23	44.23
100%		-20	5500041.98	41.98
100%		-10	5500034.58	34.58
100%		0	5500031.26	31.26
100%		+10	5500028.56	28.56
100%		+30	5500036.98	36.98
100%		+40	5500037.58	37.58
100%		+50	5500041.25	41.25
End. Point	3.50	+20	5500041.23	41.23

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5745034.25	34.25
100%		-30	5745044.25	44.25
100%		-20	5745040.39	40.39
100%		-10	5745034.25	34.25
100%		0	5745031.87	31.87
100%		+10	5745030.22	30.22
100%		+30	5745037.45	37.45
100%		+40	5745041.23	41.23
100%		+50	5745043.63	43.63
End. Point	3.50	+20	5745044.78	44.78

2 minutes

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180033.36	33.36
100%		-30	5180046.84	46.84
100%		-20	5180043.08	43.08
100%		-10	5180041.05	41.05
100%		0	5180035.69	35.69
100%		+10	5180034.46	34.46
100%		+30	5180031.58	31.58
100%		+40	5180029.46	29.46
100%		+50	5180033.56	33.56
End. Point	3.50	+20	5180037.61	37.61

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260034.52	34.52
100%		-30	5260047.25	47.25
100%		-20	5260043.25	43.25
100%		-10	5260038.51	38.51
100%		0	5260034.55	34.55
100%		+10	5260030.22	30.22
100%		+30	5260030.85	30.85
100%		+40	5260034.25	34.25
100%		+50	5260036.57	36.57
End. Point	3.50	+20	5260038.55	38.55

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500032.11	32.11
100%		-30	5500047.55	47.55
100%		-20	5500044.23	44.23
100%		-10	5500037.15	37.15
100%		0	5500032.19	32.19
100%		+10	5500031.78	31.78
100%		+30	5500030.53	30.53
100%		+40	5500035.68	35.68
100%		+50	5500039.52	39.52
End. Point	3.50	+20	5500038.54	38.54

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5745035.24	35.24
100%		-30	5745045.24	45.24
100%		-20	5745043.52	43.52
100%		-10	5745038.63	38.63
100%		0	5745036.24	36.24
100%		+10	5745033.21	33.21
100%		+30	5745032.98	32.98
100%		+40	5745038.54	38.54
100%		+50	5745039.44	39.44
End. Point	3.50	+20	5745039.87	39.87

5 minutes

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180025.64	25.64
100%		-30	5180017.45	17.45
100%		-20	5180024.52	24.52
100%		-10	5180031.15	31.15
100%		0	5180035.19	35.19
100%		+10	5180041.25	41.25
100%		+30	5180050.44	50.44
100%		+40	5180057.26	57.26
100%		+50	5180060.22	60.22
End. Point	3.50	+20	5180030.25	30.25

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260024.53	24.53
100%		-30	5260019.23	19.23
100%		-20	5260024.39	24.39
100%		-10	5260028.57	28.57
100%		0	5260034.25	34.25
100%		+10	5260041.36	41.36
100%		+30	5260051.22	51.22
100%		+40	5260056.25	56.25
100%		+50	5260059.62	59.62
End. Point	3.50	+20	5260034.25	34.25

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500030.26	30.26
100%		-30	5500021.25	21.25
100%		-20	5500025.26	25.26
100%		-10	5500031.25	31.25
100%		0	5500037.28	37.28
100%		+10	5500041.98	41.98
100%		+30	5500051.25	51.25
100%		+40	5500056.27	56.27
100%		+50	5500062.45	62.45
End. Point	3.50	+20	5500033.54	33.54

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5745032.45	32.45
100%		-30	5745018.20	18.20
100%		-20	5745024.63	24.63
100%		-10	5745029.87	29.87
100%		0	5745032.22	32.22
100%		+10	5745037.36	37.36
100%		+30	5745052.11	52.11
100%		+40	5745059.23	59.23
100%		+50	5745061.22	61.22
End. Point	3.50	+20	5745036.78	36.78

10 minutes

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5180028.45	28.45
100%		-30	5180021.18	21.18
100%		-20	5180029.39	29.39
100%		-10	5180034.36	34.36
100%		0	5180042.39	42.39
100%		+10	5180049.37	49.37
100%		+30	5180058.37	58.37
100%		+40	5180062.45	62.45
100%		+50	5180065.25	65.25
End. Point	3.50	+20	5180039.58	39.58

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5260030.25	30.25
100%		-30	5260024.58	24.58
100%		-20	5260029.37	29.37
100%		-10	5260036.25	36.25
100%		0	5260039.25	39.25
100%		+10	5260055.24	55.24
100%		+30	5260059.52	59.52
100%		+40	5260063.45	63.45
100%		+50	5260067.29	67.29
End. Point	3.50	+20	5260040.29	40.29

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5500034.78	34.78
100%		-30	5500023.58	23.58
100%		-20	5500028.82	28.82
100%		-10	5500033.57	33.57
100%		0	5500038.97	38.97
100%		+10	5500045.25	45.25
100%		+30	5500058.25	58.25
100%		+40	5500060.58	60.58
100%		+50	5500065.79	65.79
End. Point	3.50	+20	5500037.54	37.54

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5745037.42	37.42
100%		-30	5745030.25	30.25
100%		-20	5745034.89	34.89
100%		-10	5745045.23	45.23
100%		0	5745050.23	50.23
100%		+10	5745055.27	55.27
100%		+30	5745060.25	60.25
100%		+40	5745064.22	64.22
100%		+50	5745067.59	67.59
End. Point	3.50	+20	5745042.58	42.58

40 MHz BW_ Startup

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190031.25	31.25
100%		-30	5190044.89	44.89
100%		-20	5190040.98	40.98
100%		-10	5190035.68	35.68
100%		0	5190031.25	31.25
100%		+10	5190030.98	30.98
100%		+30	5190036.78	36.78
100%		+40	5190038.45	38.45
100%		+50	5190041.96	41.96
End. Point	3.50	+20	5190048.35	48.35

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270033.48	33.48
100%		-30	5270047.25	47.25
100%		-20	5270041.69	41.69
100%		-10	5270035.67	35.67
100%		0	5270030.69	30.69
100%		+10	5270029.63	29.63
100%		+30	5270038.69	38.69
100%		+40	5270039.65	39.65
100%		+50	5270040.37	40.37
End. Point	3.50	+20	5270045.29	45.29

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510036.98	36.98
100%		-30	5510048.36	48.36
100%		-20	5510041.25	41.25
100%		-10	5510035.94	35.94
100%		0	5510030.69	30.69
100%		+10	5510028.69	28.69
100%		+30	5510032.69	32.69
100%		+40	5510035.78	35.78
100%		+50	5510040.36	40.36
End. Point	3.50	+20	5510046.25	46.25

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5755034.36	34.36
100%		-30	5755048.69	48.69
100%		-20	5755040.36	40.36
100%		-10	5755039.45	39.45
100%		0	5755033.69	33.69
100%		+10	5755032.65	32.65
100%		+30	5755030.69	30.69
100%		+40	5755036.45	36.45
100%		+50	5755039.65	39.65
End. Point	3.50	+20	5755041.25	41.25

2 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190027.25	27.25
100%		-30	5190014.58	14.58
100%		-20	5190022.54	22.54
100%		-10	5190029.35	29.35
100%		0	5190034.56	34.56
100%		+10	5190037.49	37.49
100%		+30	5190047.25	47.25
100%		+40	5190052.71	52.71
100%		+50	5190059.53	59.53
End. Point	3.50	+20	5190034.58	34.58

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270026.25	26.25
100%		-30	5270014.53	14.53
100%		-20	5270023.87	23.87
100%		-10	5270029.35	29.35
100%		0	5270035.34	35.34
100%		+10	5270038.25	38.25
100%		+30	5270048.24	48.24
100%		+40	5270051.29	51.29
100%		+50	5270061.25	61.25
End. Point	3.50	+20	5270031.25	31.25

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510028.54	28.54
100%		-30	5510014.25	14.25
100%		-20	5510024.96	24.96
100%		-10	5510027.45	27.45
100%		0	5510032.15	32.15
100%		+10	5510038.52	38.52
100%		+30	5510048.98	48.98
100%		+40	5510052.27	52.27
100%		+50	5510059.32	59.32
End. Point	3.50	+20	5510035.68	35.68

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5755036.52	36.52
100%		-30	5755047.52	47.52
100%		-20	5755044.69	44.69
100%		-10	5755035.85	35.85
100%		0	5755032.58	32.58
100%		+10	5755030.09	30.09
100%		+30	5755034.32	34.32
100%		+40	5755039.54	39.54
100%		+50	5755042.52	42.52
End. Point	3.50	+20	5755042.58	42.58

5 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190025.89	25.89
100%		-30	5190014.53	14.53
100%		-20	5190024.52	24.52
100%		-10	5190029.35	29.35
100%		0	5190035.24	35.24
100%		+10	5190039.87	39.87
100%		+30	5190048.23	48.23
100%		+40	5190054.52	54.52
100%		+50	5190061.25	61.25
End. Point	3.50	+20	5190035.69	35.69

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270029.58	29.58
100%		-30	5270014.23	14.23
100%		-20	5270021.23	21.23
100%		-10	5270028.36	28.36
100%		0	5270032.24	32.24
100%		+10	5270039.68	39.68
100%		+30	5270048.57	48.57
100%		+40	5270052.23	52.23
100%		+50	5270059.36	59.36
End. Point	3.50	+20	5270033.36	33.36

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510032.52	32.52
100%		-30	5510019.25	19.25
100%		-20	5510024.36	24.36
100%		-10	5510028.54	28.54
100%		0	5510034.25	34.25
100%		+10	5510039.22	39.22
100%		+30	5510048.35	48.35
100%		+40	5510057.25	57.25
100%		+50	5510062.39	62.39
End. Point	3.50	+20	5510039.65	39.65

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5755028.56	28.56
100%		-30	5755019.52	19.52
100%		-20	5755022.36	22.36
100%		-10	5755026.78	26.78
100%		0	5755034.52	34.52
100%		+10	5755041.25	41.25
100%		+30	5755048.32	48.32
100%		+40	5755054.23	54.23
100%		+50	5755062.36	62.36
End. Point	3.50	+20	5755033.52	33.52

10 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,190,000,000 Hz
 CHANNEL: 38
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5190026.85	26.85
100%		-30	5190012.35	12.35
100%		-20	5190018.35	18.35
100%		-10	5190029.63	29.63
100%		0	5190035.69	35.69
100%		+10	5190038.96	38.96
100%		+30	5190051.25	51.25
100%		+40	5190057.32	57.32
100%		+50	5190061.69	61.69
End. Point	3.50	+20	5190036.54	36.54

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

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5270034.25	34.25
100%		-30	5270018.56	18.56
100%		-20	5270029.35	29.35
100%		-10	5270032.25	32.25
100%		0	5270036.54	36.54
100%		+10	5270040.25	40.25
100%		+30	5270052.36	52.36
100%		+40	5270059.69	59.69
100%		+50	5270064.25	64.25
End. Point	3.50	+20	5270039.38	39.38

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,510,000,000 Hz
 CHANNEL: 102
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5510030.69	30.69
100%		-30	5510015.39	15.39
100%		-20	5510022.36	22.36
100%		-10	5510029.35	29.35
100%		0	5510035.69	35.69
100%		+10	5510038.69	38.69
100%		+30	5510050.36	50.36
100%		+40	5510051.23	51.23
100%		+50	5510060.39	60.39
End. Point	3.50	+20	5510035.39	35.39

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,755,000,000 Hz
 CHANNEL: 151
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5755029.63	29.63
100%		-30	5755018.36	18.36
100%		-20	5755021.25	21.25
100%		-10	5755026.35	26.35
100%		0	5755036.54	36.54
100%		+10	5755039.31	39.31
100%		+30	5755053.25	53.25
100%		+40	5755059.36	59.36
100%		+50	5755061.25	61.25
End. Point	3.50	+20	5755039.65	39.65

80 MHz BW_ Startup

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210029.45	29.45
100%		-30	5210044.36	44.36
100%		-20	5210040.25	40.25
100%		-10	5210036.54	36.54
100%		0	5210032.98	32.98
100%		+10	5210030.78	30.78
100%		+30	5210032.35	32.35
100%		+40	5210036.78	36.78
100%		+50	5210038.69	38.69
End point	3.50	+20	5210039.56	39.56

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290030.26	30.26
100%		-30	5290046.35	46.35
100%		-20	5290042.36	42.36
100%		-10	5290035.69	35.69
100%		0	5290030.25	30.25
100%		+10	5290028.36	28.36
100%		+30	5290029.65	29.65
100%		+40	5290035.45	35.45
100%		+50	5290036.89	36.89
End point	3.50	+20	5290043.65	43.65

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530027.56	27.56
100%		-30	5530047.52	47.52
100%		-20	5530042.35	42.35
100%		-10	5530038.45	38.45
100%		0	5530033.78	33.78
100%		+10	5530031.45	31.45
100%		+30	5530030.78	30.78
100%		+40	5530035.78	35.78
100%		+50	5530039.42	39.42
End point	3.50	+20	5530040.25	40.25

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775034.25	34.25
100%		-30	5775048.24	48.24
100%		-20	5775044.36	44.36
100%		-10	5775039.15	39.15
100%		0	5775035.21	35.21
100%		+10	5775031.27	31.27
100%		+30	5775030.95	30.95
100%		+40	5775035.78	35.78
100%		+50	5775039.54	39.54
End point	3.50	+20	5775041.24	41.24

2 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210029.65	29.65
100%		-30	5210015.36	15.36
100%		-20	5210025.36	25.36
100%		-10	5210029.35	29.35
100%		0	5210036.50	36.50
100%		+10	5210039.54	39.54
100%		+30	5210048.52	48.52
100%		+40	5210055.24	55.24
100%		+50	5210062.42	62.42
End point	3.50	+20	5210030.36	30.36

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290022.36	22.36
100%		-30	5290012.36	12.36
100%		-20	5290022.48	22.48
100%		-10	5290029.36	29.36
100%		0	5290034.52	34.52
100%		+10	5290038.54	38.54
100%		+30	5290044.52	44.52
100%		+40	5290053.69	53.69
100%		+50	5290061.54	61.54
End point	3.50	+20	5290033.36	33.36

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530022.36	22.36
100%		-30	5530014.36	14.36
100%		-20	5530022.35	22.35
100%		-10	5530036.65	36.65
100%		0	5530039.36	39.36
100%		+10	5530042.21	42.21
100%		+30	5530048.51	48.51
100%		+40	5530053.65	53.65
100%		+50	5530062.25	62.25
End point	3.50	+20	5530031.25	31.25

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775026.58	26.58
100%		-30	5775019.33	19.33
100%		-20	5775025.34	25.34
100%		-10	5775026.35	26.35
100%		0	5775035.32	35.32
100%		+10	5775038.54	38.54
100%		+30	5775045.26	45.26
100%		+40	5775049.32	49.32
100%		+50	5775058.21	58.21
End point	3.50	+20	5775029.36	29.36

5 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210025.69	25.69
100%		-30	5210017.54	17.54
100%		-20	5210022.36	22.36
100%		-10	5210024.58	24.58
100%		0	5210030.54	30.54
100%		+10	5210038.65	38.65
100%		+30	5210044.25	44.25
100%		+40	5210049.65	49.65
100%		+50	5210059.35	59.35
End point	3.50	+20	5210031.25	31.25

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290028.56	28.56
100%		-30	5290015.36	15.36
100%		-20	5290022.54	22.54
100%		-10	5290029.35	29.35
100%		0	5290035.45	35.45
100%		+10	5290039.35	39.35
100%		+30	5290044.52	44.52
100%		+40	5290049.23	49.23
100%		+50	5290055.36	55.36
End point	3.50	+20	5290034.58	34.58

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530029.65	29.65
100%		-30	5530013.56	13.56
100%		-20	5530026.35	26.35
100%		-10	5530033.52	33.52
100%		0	5530035.36	35.36
100%		+10	5530042.35	42.35
100%		+30	5530046.35	46.35
100%		+40	5530049.31	49.31
100%		+50	5530055.36	55.36
End point	3.50	+20	5530036.32	36.32

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775027.41	27.41
100%		-30	5775013.25	13.25
100%		-20	5775029.63	29.63
100%		-10	5775030.25	30.25
100%		0	5775033.34	33.34
100%		+10	5775039.34	39.34
100%		+30	5775045.32	45.32
100%		+40	5775049.17	49.17
100%		+50	5775059.36	59.36
End point	3.50	+20	5775038.14	38.14

10 minutes

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210028.35	28.35
100%		-30	5210017.23	17.23
100%		-20	5210022.36	22.36
100%		-10	5210024.58	24.58
100%		0	5210035.36	35.36
100%		+10	5210039.87	39.87
100%		+30	5210045.36	45.36
100%		+40	5210049.24	49.24
100%		+50	5210059.31	59.31
End point	3.50	+20	5210037.54	37.54

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290027.35	27.35
100%		-30	5290017.54	17.54
100%		-20	5290027.54	27.54
100%		-10	5290035.32	35.32
100%		0	5290039.45	39.45
100%		+10	5290045.35	45.35
100%		+30	5290049.52	49.52
100%		+40	5290054.24	54.24
100%		+50	5290059.33	59.33
End point	3.50	+20	5290037.24	37.24

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530024.57	24.57
100%		-30	5530018.25	18.25
100%		-20	5530029.65	29.65
100%		-10	5530030.57	30.57
100%		0	5530034.25	34.25
100%		+10	5530036.25	36.25
100%		+30	5530041.25	41.25
100%		+40	5530049.78	49.78
100%		+50	5530059.36	59.36
End point	3.50	+20	5530033.25	33.25

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775024.59	24.59
100%		-30	5775013.25	13.25
100%		-20	5775026.35	26.35
100%		-10	5775029.36	29.36
100%		0	5775034.25	34.25
100%		+10	5775039.24	39.24
100%		+30	5775042.58	42.58
100%		+40	5775049.25	49.25
100%		+50	5775058.65	58.65
End point	3.50	+20	5775039.32	39.32

Note 1.

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.

Note 2.

Voltage variations were tested in end.point conditions declared by the manufacturer.

9.6 RADIATED MEASUREMENT

9.6.1 RADIATED SPURIOUS EMISSIONS.

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

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

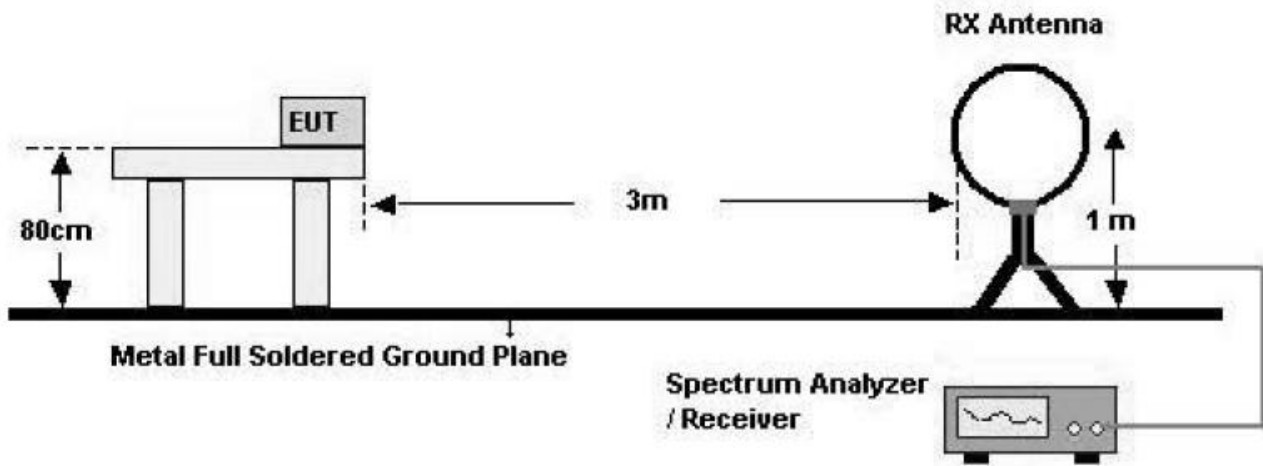
■ §15.407, KDB 789033 D02v02r01

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

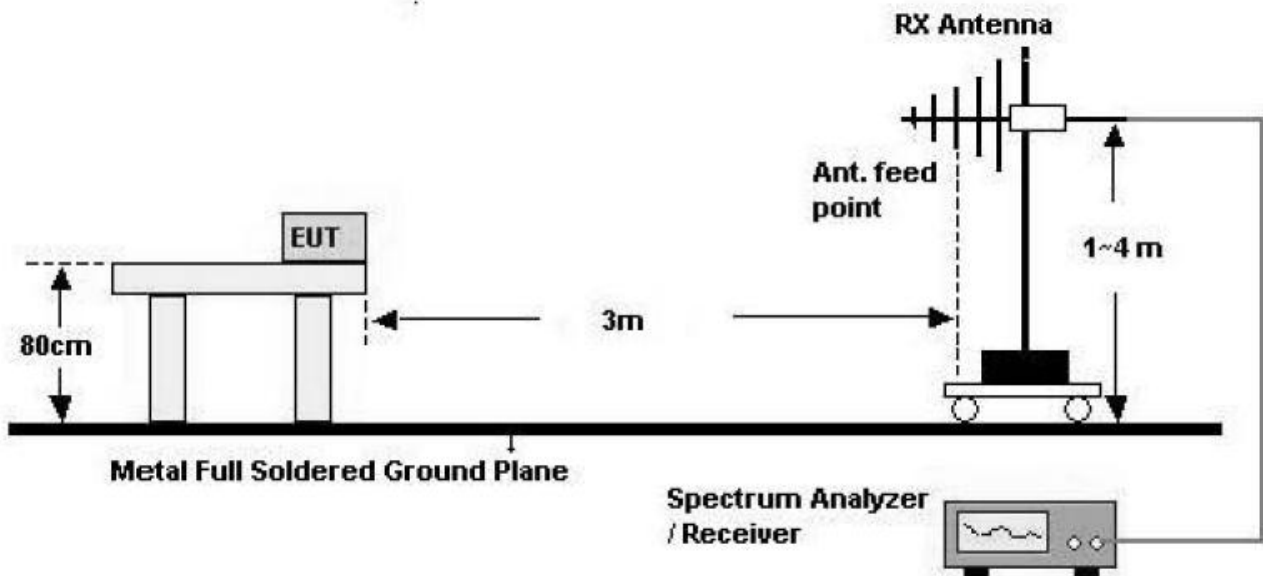
Especially, for transmitter operating in the 5725 Mhz – 5850 MHz : All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing 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.

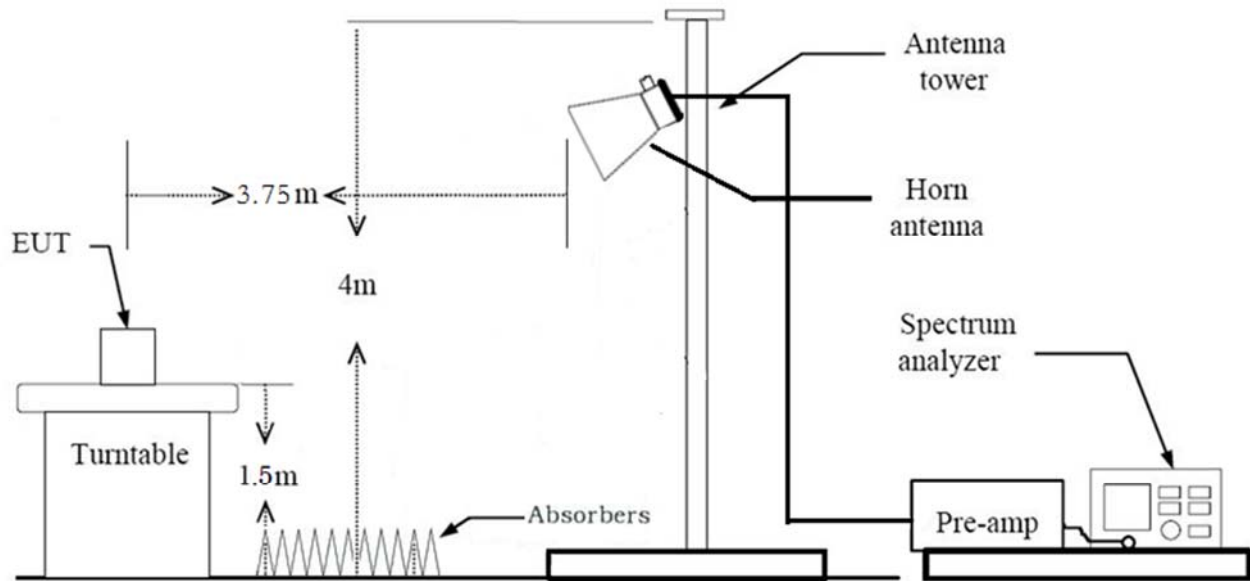
Test Configuration

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 $\geq$ 3 MHz

3. Detector = Peak

4. Sweep Time = auto

5. Trace mode = max hold

6. Allow sweeps to continue until the trace stabilizes.

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

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

1. RBW = 1 MHz

2. VBW

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

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

3. The analyzer is set to linear detector mode.

4. Detector = Peak.

5. Sweep time = auto.

6. Trace mode = max hold.

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

Note :

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

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

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

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

- **802.11a, n_HT20, ac_VHT20 : Ch 36**
- **802.11n_HT40, ac_VHT40 : ch38, 46**
- **802.11ac_80M : ch42, 155**

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	1.428	1.453	0.98224852	700	1000
n_HT20	MCS 0	1.336	1.359	0.98312482	749	1000
ac_VHT20	MCS 0	1.344	1.367	0.98323095	744	1000
n_HT40	MCS 0	0.665	0.690	0.96348884	1504	3000
ac_VHT40	MCS 0	0.668	0.693	0.96363636	1497	3000
ac_VHT80	MCS 0	0.332	0.357	0.93018567	3010	10000

- 802.11a, n_HT20, ac_VHT20 : Ch 40 ~ ch 165
- 802.11n_HT40, ac_VHT40 : ch 54 ~ ch 159
- 802.11ac_80M : ch 58, 108, 122, 138

Mode	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	6	1.425	1.485	0.95959596	702	1000
n_HT20	MCS 0	1.333	1.424	0.93609551	750	1000
ac_VHT20	MCS 0	1.345	1.435	0.93728223	743	1000
n_HT40	MCS 0	0.663	0.760	0.87236842	1508	3000
ac_VHT40	MCS 0	0.669	0.756	0.88492063	1495	3000
ac_VHT80	MCS 0	0.331	0.438	0.75570776	3021	10000

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

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

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
4. Limit line = specific Limits (dB μ V) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
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
MHz	$\text{dB}_{\mu\text{V}}$	dB/m	dB	(H/V)	$\text{dB}_{\mu\text{V/m}}$	$\text{dB}_{\mu\text{V/m}}$	dB
No Critical peaks found							

Notes:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Above 1 GHz

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.42	-1.02	V	52.40	68.20	15.80	PK
15540	51.87	-1.27	V	50.60	73.98	23.38	PK
15540	37.54	-1.27	V	36.27	53.98	17.71	AV
10360	52.42	-1.02	H	51.40	68.20	16.80	PK
15540	52.05	-1.27	H	50.78	73.98	23.20	PK
15540	38.78	-1.27	H	37.51	53.98	16.47	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	54.09	-0.29	V	53.80	68.20	14.40	PK
15600	52.61	-3.24	V	49.37	73.98	24.61	PK
15600	38.75	-3.24	V	35.51	53.98	18.47	AV
10400	54.06	-0.29	H	53.77	68.20	14.43	PK
15600	52.64	-3.24	H	49.40	73.98	24.58	PK
15600	38.83	-3.24	H	35.59	53.98	18.39	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	55.54	-3.09	V	52.45	68.20	15.75	PK
15720	51.68	-3.17	V	48.51	73.98	25.47	PK
15720	38.11	-3.17	V	34.94	53.98	19.04	AV
10480	54.90	-3.09	H	51.81	68.20	16.39	PK
15720	52.57	-3.17	H	49.40	73.98	24.58	PK
15720	38.71	-3.17	H	35.54	53.98	18.44	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	54.04	-1.02	V	53.02	68.20	15.18	PK
15540	52.42	-1.27	V	51.15	73.98	22.83	PK
15540	37.52	-1.27	V	36.25	53.98	17.73	AV
10360	54.63	-1.02	H	53.61	68.20	14.59	PK
15540	52.73	-1.27	H	51.46	73.98	22.52	PK
15540	38.97	-1.27	H	37.70	53.98	16.28	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 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	54.44	-0.29	V	54.15	68.20	14.05	PK
15600	53.92	-3.24	V	50.68	73.98	23.30	PK
15600	40.10	-3.24	V	36.86	53.98	17.12	AV
10400	54.92	-0.29	H	54.63	68.20	13.57	PK
15600	54.36	-3.24	H	51.12	73.98	22.86	PK
15600	40.26	-3.24	H	37.02	53.98	16.96	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	54.21	-3.09	V	51.12	68.20	17.08	PK
15720	53.72	-3.17	V	50.55	73.98	23.43	PK
15720	40.05	-3.17	V	36.88	53.98	17.10	AV
10480	54.83	-3.09	H	51.74	68.20	16.46	PK
15720	53.88	-3.17	H	50.71	73.98	23.27	PK
15720	40.16	-3.17	H	36.99	53.98	16.99	AV

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

Notes:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 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.
- 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.
- Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
- We have done all data rate in 802.11n_HT20. Worst case is MCS0 in 802.11n_HT20.
- We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
- Distance extrapolation factor = 20 log (test distance / specific distance) (dB)
- All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	53.72	-1.02	V	52.70	68.20	15.50	PK
15540	52.00	-1.27	V	50.73	73.98	23.25	PK
15540	38.98	-1.27	V	37.71	53.98	16.27	AV
10360	53.42	-1.02	H	52.40	68.20	15.80	PK
15540	51.65	-1.27	H	50.38	73.98	23.60	PK
15540	38.76	-1.27	H	37.49	53.98	16.49	AV

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

Notes:

- Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 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.
- 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.
- Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
- We have done all data rate in 802.11ac_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
- We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
- Distance extrapolation factor = 20 log (test distance / specific distance) (dB)
- All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	53.22	-0.29	V	52.93	68.20	15.27	PK
15600	51.90	-3.24	V	48.66	73.98	25.32	PK
15600	37.52	-3.24	V	34.28	53.98	19.70	AV
10400	53.64	-0.29	H	53.35	68.20	14.85	PK
15600	52.75	-3.24	H	49.51	73.98	24.47	PK
15600	38.86	-3.24	H	35.62	53.98	18.36	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	53.67	-3.09	V	50.58	68.20	17.62	PK
15720	53.14	-3.17	V	49.97	73.98	24.01	PK
15720	39.26	-3.17	V	36.09	53.98	17.89	AV
10480	52.48	-3.09	H	49.39	68.20	18.81	PK
15720	52.44	-3.17	H	49.27	73.98	24.71	PK
15720	39.20	-3.17	H	36.03	53.98	17.95	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	53.92	-1.29	V	52.63	68.20	15.57	PK
15570	52.34	-1.21	V	51.13	73.98	22.85	PK
15570	39.32	-1.21	V	38.11	53.98	15.87	AV
10380	53.44	-1.29	H	52.15	68.20	16.05	PK
15570	51.85	-1.21	H	50.64	73.98	23.34	PK
15570	39.12	-1.21	H	37.91	53.98	16.07	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.52	-1.52	V	53.00	68.20	15.20	PK
15690	51.75	-1.90	V	49.85	73.98	24.13	PK
15690	39.84	-1.90	V	37.94	53.98	16.04	AV
10460	54.55	-1.52	H	53.03	68.20	15.17	PK
15690	52.20	-1.90	H	50.30	73.98	23.68	PK
15690	39.90	-1.90	H	38.00	53.98	15.98	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	53.38	-1.29	V	52.09	68.20	16.11	PK
15570	51.74	-1.21	V	50.53	73.98	23.45	PK
15570	38.72	-1.21	V	37.51	53.98	16.47	AV
10380	52.83	-1.29	H	51.54	68.20	16.66	PK
15570	52.26	-1.21	H	51.05	73.98	22.93	PK
15570	38.86	-1.21	H	37.65	53.98	16.33	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 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	54.44	-1.52	V	52.92	68.20	15.28	PK
15690	51.98	-1.90	V	50.08	73.98	23.90	PK
15690	39.33	-1.90	V	37.43	53.98	16.55	AV
10460	54.51	-1.52	H	52.99	68.20	15.21	PK
15690	52.36	-1.90	H	50.46	73.98	23.52	PK
15690	39.53	-1.90	H	37.63	53.98	16.35	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	54.33	-1.73	V	52.60	68.20	15.60	PK
15630	52.93	-1.86	V	51.07	73.98	22.91	PK
15630	41.34	-1.86	V	39.48	53.98	14.50	AV
10420	53.27	-1.73	H	51.54	68.20	16.66	PK
15630	52.16	-1.86	H	50.30	73.98	23.68	PK
15630	40.62	-1.86	H	38.76	53.98	15.22	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 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	55.15	-1.52	V	53.63	68.20	14.57	PK
15780	51.70	-2.64	V	49.06	73.98	24.92	PK
15780	38.32	-2.64	V	35.68	53.98	18.30	AV
10520	54.53	-1.52	H	53.01	68.20	15.19	PK
15780	52.35	-2.64	H	49.71	73.98	24.27	PK
15780	38.68	-2.64	H	36.04	53.98	17.94	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. 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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.91	-1.32	V	52.59	73.98	21.39	PK
10600	41.63	-1.32	V	40.31	53.98	13.67	AV
15900	51.94	-1.51	V	50.43	73.98	23.55	PK
15900	38.28	-1.51	V	36.77	53.98	17.21	AV
10600	52.48	-1.32	H	51.16	73.98	22.82	PK
10600	41.51	-1.32	H	40.19	53.98	13.79	AV
15900	51.91	-1.51	H	50.40	73.98	23.58	PK
15900	38.18	-1.51	H	36.67	53.98	17.31	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 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	53.89	-1.01	V	52.88	73.98	21.10	PK
10640	41.69	-1.01	V	40.68	53.98	13.30	AV
15960	52.39	-2.17	V	50.22	73.98	23.76	PK
15960	39.36	-2.17	V	37.19	53.98	16.79	AV
10640	52.47	-1.01	H	51.46	73.98	22.52	PK
10640	41.53	-1.01	H	40.52	53.98	13.46	AV
15960	52.10	-2.17	H	49.93	73.98	24.05	PK
15960	38.84	-2.17	H	36.67	53.98	17.31	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 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	53.26	-1.52	V	51.74	68.20	16.46	PK
15780	50.48	-2.64	V	47.84	73.98	26.14	PK
15780	37.52	-2.64	V	34.88	53.98	19.10	AV
10520	54.96	-1.52	H	53.44	68.20	14.76	PK
15780	51.99	-2.64	H	49.35	73.98	24.63	PK
15780	38.76	-2.64	H	36.12	53.98	17.86	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	53.76	-1.32	V	52.44	73.98	21.54	PK
10600	41.73	-1.32	V	40.41	53.98	13.57	AV
15900	52.32	-1.51	V	50.81	73.98	23.17	PK
15900	37.91	-1.51	V	36.40	53.98	17.58	AV
10600	52.88	-1.32	H	51.56	73.98	22.42	PK
10600	41.47	-1.32	H	40.15	53.98	13.83	AV
15900	51.26	-1.51	H	49.75	73.98	24.23	PK
15900	36.82	-1.51	H	35.31	53.98	18.67	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.86	-1.01	V	53.85	73.98	20.13	PK
10640	41.87	-1.01	V	40.86	53.98	13.12	AV
15960	53.86	-2.17	V	51.69	73.98	22.29	PK
15960	39.31	-2.17	V	37.14	53.98	16.84	AV
10640	54.29	-1.01	H	53.28	73.98	20.70	PK
10640	41.42	-1.01	H	40.41	53.98	13.57	AV
15960	52.94	-2.17	H	50.77	73.98	23.21	PK
15960	39.22	-2.17	H	37.05	53.98	16.93	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	55.74	-1.52	V	54.22	68.20	13.98	PK
15780	51.75	-2.64	V	49.11	73.98	24.87	PK
15780	38.73	-2.64	V	36.09	53.98	17.89	AV
10520	54.78	-1.52	H	53.26	68.20	14.94	PK
15780	51.49	-2.64	H	48.85	73.98	25.13	PK
15780	38.05	-2.64	H	35.41	53.98	18.57	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.52	-1.32	V	53.20	73.98	20.78	PK
10600	41.54	-1.32	V	40.22	53.98	13.76	AV
15900	51.91	-1.51	V	50.40	73.98	23.58	PK
15900	38.34	-1.51	V	36.83	53.98	17.15	AV
10600	53.61	-1.32	H	52.29	73.98	21.69	PK
10600	41.50	-1.32	H	40.18	53.98	13.80	AV
15900	50.94	-1.51	H	49.43	73.98	24.55	PK
15900	38.22	-1.51	H	36.71	53.98	17.27	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.38	-1.01	V	53.37	73.98	20.61	PK
10640	41.77	-1.01	V	40.76	53.98	13.22	AV
15960	52.61	-2.17	V	50.44	73.98	23.54	PK
15960	39.23	-2.17	V	37.06	53.98	16.92	AV
10640	54.21	-1.01	H	53.20	73.98	20.78	PK
10640	41.59	-1.01	H	40.58	53.98	13.40	AV
15960	52.20	-2.17	H	50.03	73.98	23.95	PK
15960	39.21	-2.17	H	37.04	53.98	16.94	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.53	-1.03	V	52.50	68.20	15.70	PK
15810	52.54	-2.29	V	50.25	73.98	23.73	PK
15810	39.43	-2.29	V	37.14	53.98	16.84	AV
10540	52.54	-1.03	H	51.51	68.20	16.69	PK
15810	52.20	-2.29	H	49.91	73.98	24.07	PK
15810	39.23	-2.29	H	36.94	53.98	17.04	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.05	-2.36	V	50.69	73.98	23.29	PK
10620	40.25	-2.36	V	37.89	53.98	16.09	AV
15930	52.56	-1.95	V	50.61	73.98	23.37	PK
15930	39.25	-1.95	V	37.30	53.98	16.68	AV
10620	52.86	-2.36	H	50.50	73.98	23.48	PK
10620	39.85	-2.36	H	37.49	53.98	16.49	AV
15930	51.48	-1.95	H	49.53	73.98	24.45	PK
15930	39.15	-1.95	H	37.20	53.98	16.78	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	53.58	-1.03	V	52.55	68.20	15.65	PK
15810	52.33	-2.29	V	50.04	73.98	23.94	PK
15810	39.35	-2.29	V	37.06	53.98	16.92	AV
10540	52.47	-1.03	H	51.44	68.20	16.76	PK
15810	51.94	-2.29	H	49.65	73.98	24.33	PK
15810	38.62	-2.29	H	36.33	53.98	17.65	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	53.54	-2.36	V	51.18	73.98	22.80	PK
10620	40.43	-2.36	V	38.07	53.98	15.91	AV
15930	52.51	-1.95	V	50.56	73.98	23.42	PK
15930	39.83	-1.95	V	37.88	53.98	16.10	AV
10620	52.98	-2.36	H	50.62	73.98	23.36	PK
10620	40.24	-2.36	H	37.88	53.98	16.10	AV
15930	51.48	-1.95	H	49.53	73.98	24.45	PK
15930	39.78	-1.95	H	37.83	53.98	16.15	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	54.08	-0.75	V	53.33	68.20	14.87	PK
15870	52.93	-2.64	V	50.29	73.98	23.69	PK
15870	40.85	-2.64	V	38.21	53.98	15.77	AV
10580	53.65	-0.75	H	52.90	68.20	15.30	PK
15870	51.68	-2.64	H	49.04	73.98	24.94	PK
15870	40.22	-2.64	H	37.58	53.98	16.40	AV

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	53.11	0.37	V	53.48	73.98	20.50	PK
11000	38.76	0.37	V	39.13	53.98	14.85	AV
16500	50.48	0.03	V	50.51	68.20	17.69	PK
11000	53.45	0.37	H	53.82	73.98	20.16	PK
11000	39.44	0.37	H	39.81	53.98	14.17	AV
16500	51.93	0.03	H	51.96	68.20	16.24	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5600 MHz
Channel No.	120 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
11200	52.95	-1.31	V	51.64	73.98	22.34	PK
11200	39.02	-1.31	V	37.71	53.98	16.27	AV
16800	50.48	1.66	V	52.14	68.20	16.06	PK
11200	53.40	-1.31	H	52.09	73.98	21.89	PK
11200	39.19	-1.31	H	37.88	53.98	16.10	AV
16800	51.66	1.66	H	53.32	68.20	14.88	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
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	52.90	0.22	V	53.12	73.98	20.86	PK
11440	38.55	0.22	V	38.77	53.98	15.21	AV
17160	50.48	1.94	V	52.42	68.20	15.78	PK
11440	53.47	0.22	H	53.69	73.98	20.29	PK
11440	39.26	0.22	H	39.48	53.98	14.50	AV
17160	51.19	1.94	H	53.13	68.20	15.07	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 802.11a. 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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.85	0.37	V	53.22	73.98	20.76	PK
11000	39.49	0.37	V	39.86	53.98	14.12	AV
16500	51.78	0.03	V	51.81	68.20	16.39	PK
11000	53.32	0.37	H	53.69	73.98	20.29	PK
11000	39.55	0.37	H	39.92	53.98	14.06	AV
16500	51.92	0.03	H	51.95	68.20	16.25	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5600 MHz
Channel No.	120 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
11200	51.90	-1.31	V	50.59	73.98	23.39	PK
11200	38.57	-1.31	V	37.26	53.98	16.72	AV
16800	51.34	1.66	V	53.00	68.20	15.20	PK
11200	52.15	-1.31	H	50.84	73.98	23.14	PK
11200	39.28	-1.31	H	37.97	53.98	16.01	AV
16800	52.63	1.66	H	54.29	68.20	13.91	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
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	51.47	0.22	V	51.69	73.98	22.29	PK
11440	39.29	0.22	V	39.51	53.98	14.47	AV
17160	51.29	1.94	V	53.23	68.20	14.97	PK
11440	52.87	0.22	H	53.09	73.98	20.89	PK
11440	39.37	0.22	H	39.59	53.98	14.39	AV
17160	51.75	1.94	H	53.69	68.20	14.51	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	52.71	0.37	V	53.08	73.98	20.90	PK
11000	38.52	0.37	V	38.89	53.98	15.09	AV
16500	51.74	0.03	V	51.77	68.20	16.43	PK
11000	53.25	0.37	H	53.62	73.98	20.36	PK
11000	39.63	0.37	H	40.00	53.98	13.98	AV
16500	52.55	0.03	H	52.58	68.20	15.62	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5600 MHz
Channel No.	120 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
11200	51.90	-1.31	V	50.59	73.98	23.39	PK
11200	38.52	-1.31	V	37.21	53.98	16.77	AV
16800	50.82	1.66	V	52.48	68.20	15.72	PK
11200	52.84	-1.31	H	51.53	73.98	22.45	PK
11200	39.20	-1.31	H	37.89	53.98	16.09	AV
16800	51.92	1.66	H	53.58	68.20	14.62	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
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	52.97	0.22	V	53.19	73.98	20.79	PK
11440	39.13	0.22	V	39.35	53.98	14.63	AV
17160	51.85	1.94	V	53.79	68.20	14.41	PK
11440	53.66	0.22	H	53.88	73.98	20.10	PK
11440	39.44	0.22	H	39.66	53.98	14.32	AV
17160	52.57	1.94	H	54.51	68.20	13.69	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	51.85	0.07	V	51.92	73.98	22.06	PK
11020	39.35	0.07	V	39.42	53.98	14.56	AV
16530	51.25	-0.71	V	50.54	68.20	17.66	PK
11020	52.92	0.07	H	52.99	73.98	20.99	PK
11020	40.39	0.07	H	40.46	53.98	13.52	AV
16530	52.35	-0.71	H	51.64	68.20	16.56	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11n_HT40
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	51.05	-1.03	V	50.02	73.98	23.96	PK
11180	38.52	-1.03	V	37.49	53.98	16.49	AV
16770	51.02	2.85	V	53.87	68.20	14.33	PK
11180	52.28	-1.03	H	51.25	73.98	22.73	PK
11180	40.12	-1.03	H	39.09	53.98	14.89	AV
16770	52.22	2.85	H	55.07	68.20	13.13	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11n_HT40
Transfer MCS Index:	0
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	52.52	-0.15	V	52.37	73.98	21.61	PK
11420	39.25	-0.15	V	39.10	53.98	14.88	AV
17130	50.27	4.39	V	54.66	68.20	13.54	PK
11420	53.90	-0.15	H	53.75	73.98	20.23	PK
11420	40.33	-0.15	H	40.18	53.98	13.80	AV
17130	50.70	4.39	H	55.09	68.20	13.11	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	52.52	0.07	V	52.59	73.98	21.39	PK
11020	39.85	0.07	V	39.92	53.98	14.06	AV
16530	51.47	-0.71	V	50.76	68.20	17.44	PK
11020	53.14	0.07	H	53.21	73.98	20.77	PK
11020	40.28	0.07	H	40.35	53.98	13.63	AV
16530	52.30	-0.71	H	51.59	68.20	16.61	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 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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	51.48	-1.03	V	50.45	73.98	23.53	PK
11180	39.15	-1.03	V	38.12	53.98	15.86	AV
16770	49.88	2.85	V	52.73	68.20	15.47	PK
11180	52.81	-1.03	H	51.78	73.98	22.20	PK
11180	40.16	-1.03	H	39.13	53.98	14.85	AV
16770	51.16	2.85	H	54.01	68.20	14.19	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
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	52.48	-0.15	V	52.33	73.98	21.65	PK
11420	39.87	-0.15	V	39.72	53.98	14.26	AV
17130	50.99	4.39	V	55.38	68.20	12.82	PK
11420	52.90	-0.15	H	52.75	73.98	21.23	PK
11420	40.25	-0.15	H	40.10	53.98	13.88	AV
17130	51.53	4.39	H	55.92	68.20	12.28	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	52.93	-0.38	V	52.55	73.98	21.43	PK
11060	41.57	-0.38	V	41.19	53.98	12.79	AV
16590	51.58	1.18	V	52.76	68.20	15.44	PK
11060	51.85	-0.38	H	51.47	73.98	22.51	PK
11060	40.85	-0.38	H	40.47	53.98	13.51	AV
16590	51.33	1.18	H	52.51	68.20	15.69	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5610 MHz
Channel No.	122 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
11220	50.67	-1.60	V	49.07	73.98	24.91	PK
11220	40.66	-1.60	V	39.06	53.98	14.92	AV
16830	50.05	1.47	V	51.52	68.20	16.68	PK
11220	51.74	-1.60	H	50.14	73.98	23.84	PK
11220	40.81	-1.60	H	39.21	53.98	14.77	AV
16830	50.03	1.47	H	51.50	68.20	16.70	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
Transfer MCS Index:	0
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	51.51	-0.42	V	51.09	73.98	22.89	PK
11380	40.21	-0.42	V	39.79	53.98	14.19	AV
17070	50.79	2.52	V	53.31	68.20	14.89	PK
11380	52.81	-0.42	H	52.39	73.98	21.59	PK
11380	40.93	-0.42	H	40.51	53.98	13.47	AV
17070	51.04	2.52	H	53.56	68.20	14.64	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_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	53.54	-0.59	V	52.95	73.98	21.03	PK
11490	39.81	-0.59	V	39.22	53.98	14.76	AV
17235	51.61	3.63	V	55.24	68.20	12.96	PK
11490	52.12	-0.59	H	51.53	73.98	22.45	PK
11490	38.45	-0.59	H	37.86	53.98	16.12	AV
17235	50.48	3.63	H	54.11	68.20	14.09	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 802.11a. 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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.20	-0.97	V	52.23	73.98	21.75	PK
11570	39.57	-0.97	V	38.60	53.98	15.38	AV
17355	50.80	5.02	V	55.82	68.20	12.38	PK
11570	52.61	-0.97	H	51.64	73.98	22.34	PK
11570	38.51	-0.97	H	37.54	53.98	16.44	AV
17355	50.17	5.02	H	55.19	68.20	13.01	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 802.11a. 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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.42	-1.70	V	51.72	73.98	22.26	PK
11650	39.60	-1.70	V	37.90	53.98	16.08	AV
17475	51.65	5.75	V	57.40	68.20	10.80	PK
11650	52.93	-1.70	H	51.23	73.98	22.75	PK
11650	39.52	-1.70	H	37.82	53.98	16.16	AV
17475	50.88	5.75	H	56.63	68.20	11.57	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11a. 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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	53.15	-0.59	V	52.56	73.98	21.42	PK
11490	39.65	-0.59	V	39.06	53.98	14.92	AV
17235	51.95	3.63	V	55.58	68.20	12.62	PK
11490	53.08	-0.59	H	52.49	73.98	21.49	PK
11490	38.41	-0.59	H	37.82	53.98	16.16	AV
17235	50.45	3.63	H	54.08	68.20	14.12	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_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	52.38	-0.97	V	51.41	73.98	22.57	PK
11570	39.12	-0.97	V	38.15	53.98	15.83	AV
17355	51.56	5.02	V	56.58	68.20	11.62	PK
11570	52.20	-0.97	H	51.23	73.98	22.75	PK
11570	38.02	-0.97	H	37.05	53.98	16.93	AV
17355	50.05	5.02	H	55.07	68.20	13.13	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	54.75	-1.70	V	53.05	73.98	20.93	PK
11650	39.63	-1.70	V	37.93	53.98	16.05	AV
17475	50.81	5.75	V	56.56	68.20	11.64	PK
11650	52.81	-1.70	H	51.11	73.98	22.87	PK
11650	39.44	-1.70	H	37.74	53.98	16.24	AV
17475	49.87	5.75	H	55.62	68.20	12.58	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	53.11	-0.59	V	52.52	73.98	21.46	PK
11490	39.75	-0.59	V	39.16	53.98	14.82	AV
17235	51.92	3.63	V	55.55	68.20	12.65	PK
11490	52.78	-0.59	H	52.19	73.98	21.79	PK
11490	38.44	-0.59	H	37.85	53.98	16.13	AV
17235	52.12	3.63	H	55.75	68.20	12.45	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 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	53.69	-0.97	V	52.72	73.98	21.26	PK
11570	38.42	-0.97	V	37.45	53.98	16.53	AV
17355	50.75	5.02	V	55.77	68.20	12.43	PK
11570	53.12	-0.97	H	52.15	73.98	21.83	PK
11570	37.22	-0.97	H	36.25	53.98	17.73	AV
17355	49.50	5.02	H	54.52	68.20	13.68	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.29	-1.70	V	51.59	73.98	22.39	PK
11650	39.56	-1.70	V	37.86	53.98	16.12	AV
17475	50.64	5.75	V	56.39	68.20	11.81	PK
11650	53.01	-1.70	H	51.31	73.98	22.67	PK
11650	38.53	-1.70	H	36.83	53.98	17.15	AV
17475	49.22	5.75	H	54.97	68.20	13.23	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	54.00	-0.63	V	53.37	73.98	20.61	PK
11510	42.54	-0.63	V	41.91	53.98	12.07	AV
17265	52.13	4.53	V	56.66	68.20	11.54	PK
11510	53.21	-0.63	H	52.58	73.98	21.40	PK
11510	42.25	-0.63	H	41.62	53.98	12.36	AV
17265	50.88	4.53	H	55.41	68.20	12.79	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	54.33	-0.53	V	53.80	73.98	20.18	PK
11590	42.15	-0.53	V	41.62	53.98	12.36	AV
17385	51.16	4.95	V	56.11	68.20	12.09	PK
11590	52.81	-0.53	H	52.28	73.98	21.70	PK
11590	41.83	-0.53	H	41.30	53.98	12.68	AV
17385	50.54	4.95	H	55.49	68.20	12.71	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11n_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.39	-0.63	V	52.76	73.98	21.22	PK
11510	40.62	-0.63	V	39.99	53.98	13.99	AV
17265	51.41	4.53	V	55.94	68.20	12.26	PK
11510	52.78	-0.63	H	52.15	73.98	21.83	PK
11510	39.85	-0.63	H	39.22	53.98	14.76	AV
17265	51.15	4.53	H	55.68	68.20	12.52	PK

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

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	52.89	-0.53	V	52.36	73.98	21.62	PK
11590	40.51	-0.53	V	39.98	53.98	14.00	AV
17385	51.13	4.95	V	56.08	68.20	12.12	PK
11590	52.57	-0.53	H	52.04	73.98	21.94	PK
11590	40.44	-0.53	H	39.91	53.98	14.07	AV
17385	50.26	4.95	H	55.21	68.20	12.99	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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	53.46	-0.48	V	52.98	73.98	21.00	PK
11550	41.68	-0.48	V	41.20	53.98	12.78	AV
17325	50.86	5.28	V	56.14	68.20	12.06	PK
11550	52.89	-0.48	H	52.41	73.98	21.57	PK
11550	40.88	-0.48	H	40.40	53.98	13.58	AV
17325	50.49	5.28	H	55.77	68.20	12.43	PK

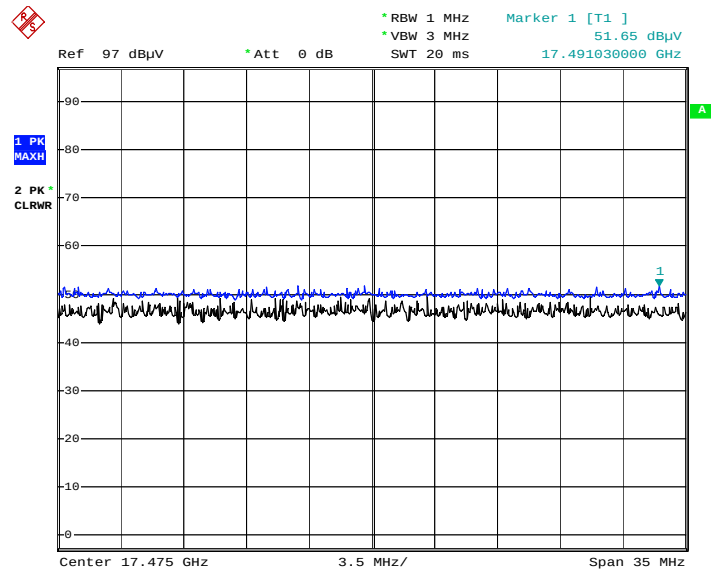
*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

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 802.11ac_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)
8. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

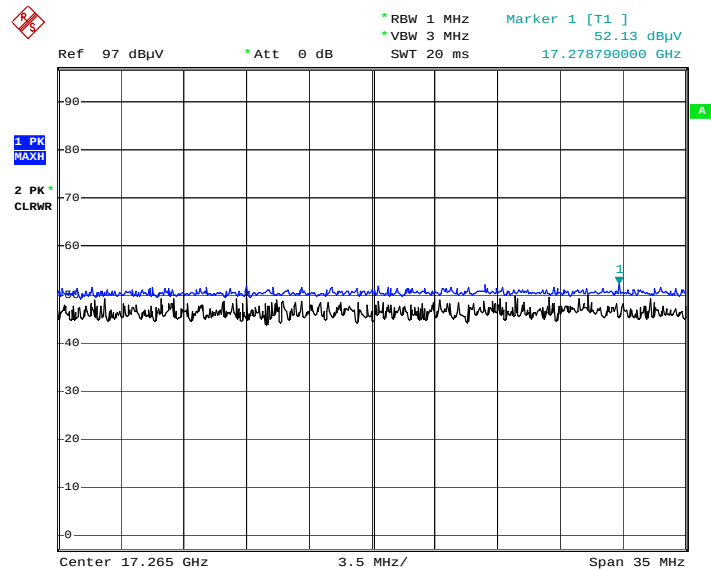
■ RESULT PLOTS

Radiated Spurious Emissions plot – Peak Reading (802.11a, Ch.165 3rd Harmonic, X-V)



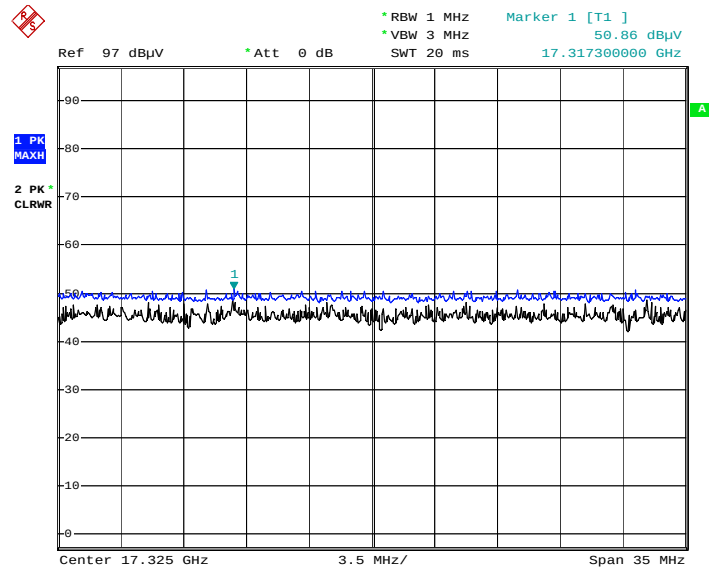
Date: 22.AUG.2018 09:25:17

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT40, Ch.151 3rd Harmonic, X-V)



Date: 22.AUG.2018 09:28:13

Radiated Spurious Emissions plot – Peak Reading (802.11ac_VHT80, Ch.155 3rd Harmonic, X-V)



Date: 22.AUG.2018 09:31:07

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

9.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.58	5.07	H	67.65	73.98	6.33	PK
5150	44.54	5.07	H	49.61	53.98	4.37	AV
5150	61.42	5.07	V	66.49	73.98	7.49	PK
5150	43.58	5.07	V	48.65	53.98	5.33	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	64.49	5.07	H	69.56	73.98	4.42	PK
5150	45.45	5.07	H	50.52	53.98	3.46	AV
5150	63.85	5.07	V	68.92	73.98	5.06	PK
5150	44.23	5.07	V	49.3	53.98	4.68	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	66.23	5.07	H	71.30	73.98	2.68	PK
5150	46.85	5.07	H	51.92	53.98	2.06	AV
5150	65.22	5.07	V	70.29	73.98	3.69	PK
5150	45.78	5.07	V	50.85	53.98	3.13	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	59.48	5.07	H	64.55	73.98	9.43	PK
5150	45.82	5.07	H	50.89	53.98	3.09	AV
5150	58.44	5.07	V	63.51	73.98	10.47	PK
5150	45.20	5.07	V	50.27	53.98	3.71	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	62.14	5.07	H	67.21	73.98	6.77	PK
5150	45.76	5.07	H	50.83	53.98	3.15	AV
5150	61.81	5.07	V	66.88	73.98	7.10	PK
5150	44.72	5.07	V	49.79	53.98	4.19	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	52.76	5.07	H	57.83	73.98	16.15	PK
5150	41.39	5.07	H	46.46	53.98	7.52	AV
5150	51.62	5.07	V	56.69	73.98	17.29	PK
5150	40.80	5.07	V	45.87	53.98	8.11	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.63	4.42	H	66.05	73.98	7.93	PK
5350	44.27	4.42	H	48.69	53.98	5.29	AV
5350	60.58	4.42	V	65	73.98	8.98	PK
5350	43.82	4.42	V	48.24	53.98	5.74	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.64	4.42	H	68.06	73.98	5.92	PK
5350	44.23	4.42	H	48.65	53.98	5.33	AV
5350	62.35	4.42	V	66.77	73.98	7.21	PK
5350	44.12	4.42	V	48.54	53.98	5.44	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.95	4.42	H	68.37	73.98	5.61	PK
5350	44.27	4.42	H	48.69	53.98	5.29	AV
5350	62.81	4.42	V	67.23	73.98	6.75	PK
5350	43.68	4.42	V	48.1	53.98	5.88	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.31	4.42	H	67.73	73.98	6.25	PK
5350	45.88	4.42	H	50.3	53.98	3.68	AV
5350	62.53	4.42	V	66.95	73.98	7.03	PK
5350	44.72	4.42	V	49.14	53.98	4.84	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.36	4.42	H	64.78	73.98	9.20	PK
5350	45.83	4.42	H	50.25	53.98	3.73	AV
5350	60.26	4.42	V	64.68	73.98	9.30	PK
5350	45.08	4.42	V	49.5	53.98	4.48	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	61.75	4.42	H	66.17	73.98	7.81	PK
5350	45.37	4.42	H	49.79	53.98	4.19	AV
5350	60.89	4.42	V	65.31	73.98	8.67	PK
5350	44.21	4.42	V	48.63	53.98	5.35	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.01	5.72	H	58.73	73.98	15.25	PK
5460	39.04	5.72	H	44.76	53.98	9.22	AV
5470	60.90	5.26	H	66.16	73.98	7.82	PK
5470	43.11	5.26	H	48.37	53.98	5.61	AV
5460	52.98	5.72	V	58.7	73.98	15.28	PK
5460	38.41	5.72	V	44.13	53.98	9.85	AV
5470	59.82	5.26	V	65.08	68.20	3.12	PK

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	53.59	5.72	H	59.31	73.98	14.67	PK
5460	39.56	5.72	H	45.28	53.98	8.70	AV
5470	62.61	5.26	H	67.87	73.98	6.11	PK
5470	43.63	5.26	H	48.89	53.98	5.09	AV
5460	53.21	5.72	V	58.93	73.98	15.05	PK
5460	38.95	5.72	V	44.67	53.98	9.31	AV
5470	61.98	5.26	V	67.24	73.98	6.74	PK
5470	43.21	5.26	V	48.47	53.98	5.51	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	55.30	5.72	H	61.02	73.98	12.96	PK
5460	39.37	5.72	H	45.09	53.98	8.89	AV
5470	63.05	5.26	H	68.31	73.98	5.67	PK
5470	43.47	5.26	H	48.73	53.98	5.25	AV
5460	54.98	5.72	V	60.7	73.98	13.28	PK
5460	38.91	5.72	V	44.63	53.98	9.35	AV
5470	62.55	5.26	V	67.81	73.98	6.17	PK
5470	43.05	5.26	V	48.31	53.98	5.67	AV

Report No.: HCT-RF-1808-FC032-R1

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	59.33	5.72	H	65.05	73.98	8.93	PK
5460	42.43	5.72	H	48.15	53.98	5.83	AV
5470	62.71	5.26	H	67.97	73.98	6.01	PK
5470	45.35	5.26	H	50.61	53.98	3.37	AV
5460	58.91	5.72	V	64.63	73.98	9.35	PK
5460	41.26	5.72	V	46.98	53.98	7.00	AV
5470	62.14	5.26	V	67.4	73.98	6.58	PK
5470	44.98	5.26	V	50.24	53.98	3.74	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.63	5.72	H	64.35	73.98	9.63	PK
5460	42.47	5.72	H	48.19	53.98	5.79	AV
5470	64.23	5.26	H	69.49	73.98	4.49	PK
5470	45.59	6.26	H	51.85	53.98	2.13	AV
5460	58.13	5.72	V	63.85	73.98	10.13	PK
5460	41.51	5.72	V	47.23	53.98	6.75	AV
5470	63.64	5.26	V	68.9	73.98	5.08	PK
5470	45.12	5.26	V	50.38	53.98	3.60	AV

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

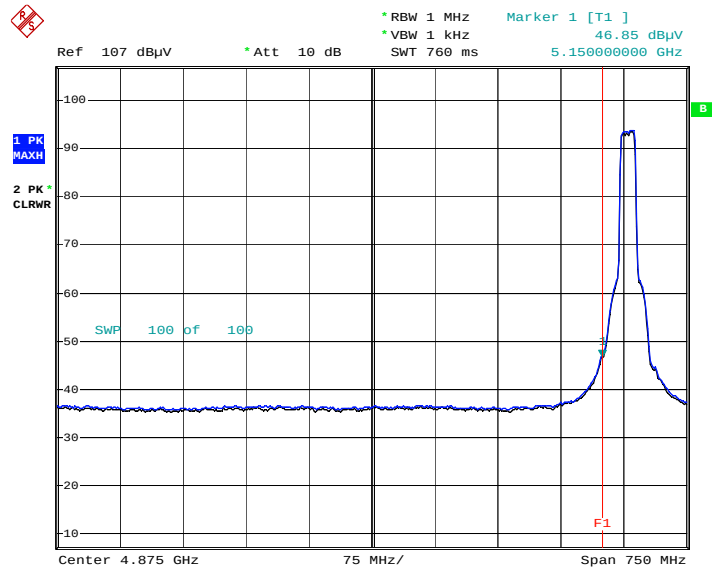
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	57.78	5.72	H	63.50	73.98	10.48	PK
5460	44.72	5.72	H	50.44	53.98	3.54	AV
5470	59.44	5.26	H	64.7	73.98	9.28	PK
5470	45.70	5.26	H	50.96	53.98	3.02	AV
5460	57.02	5.72	V	62.74	73.98	11.24	PK
5460	44.11	5.72	V	49.83	53.98	4.15	AV
5470	58.26	5.26	V	63.52	68.20	4.68	PK

Notes:

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT + Distance Factor
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone, Stand alone+ external accessories(earphone, etc)
 - Worstcase : Stand alone

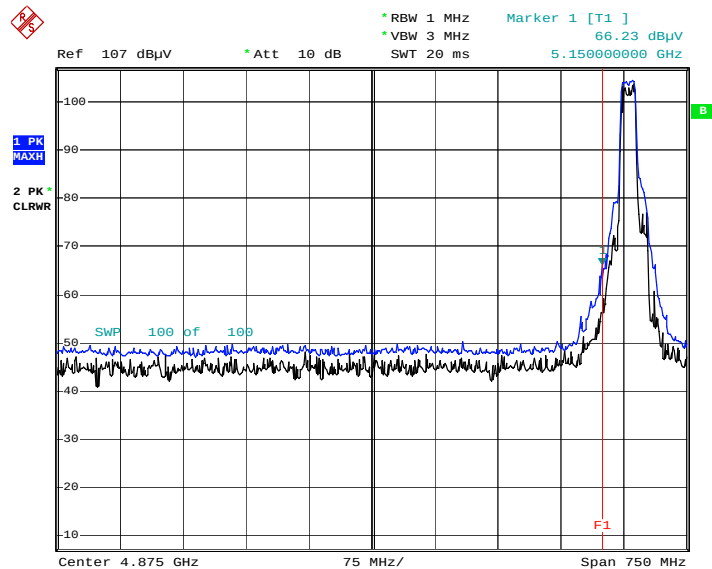
RESULT PLOTS

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



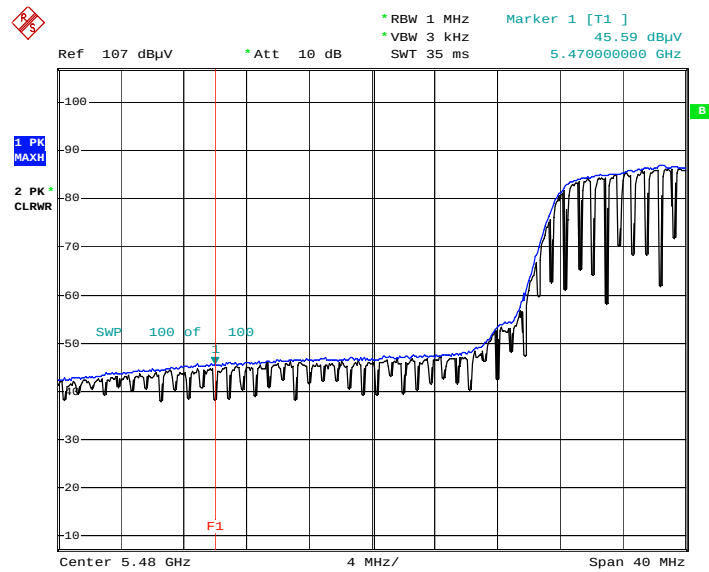
Date: 20.AUG.2018 09:52:11

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



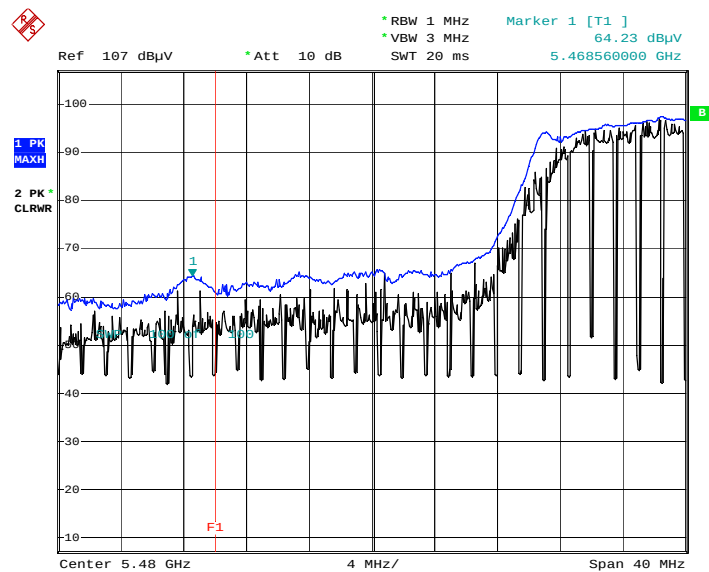
Date: 20.AUG.2018 09:49:09

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



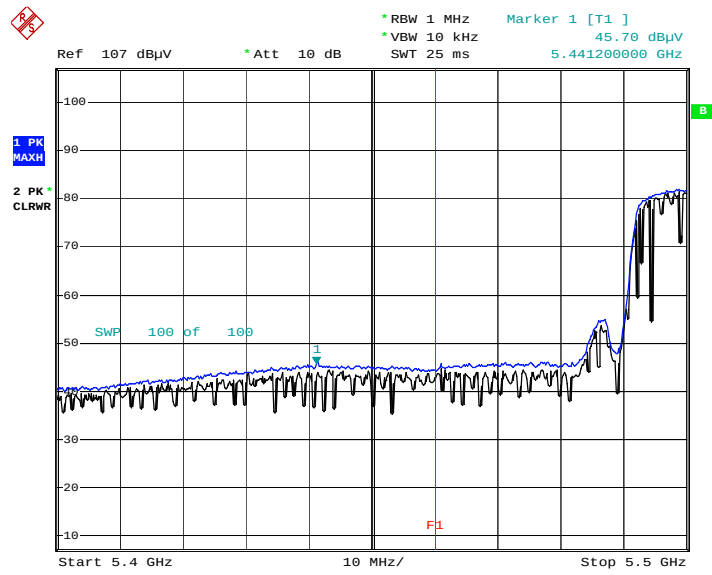
Date: 23.AUG.2018 11:07:50

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



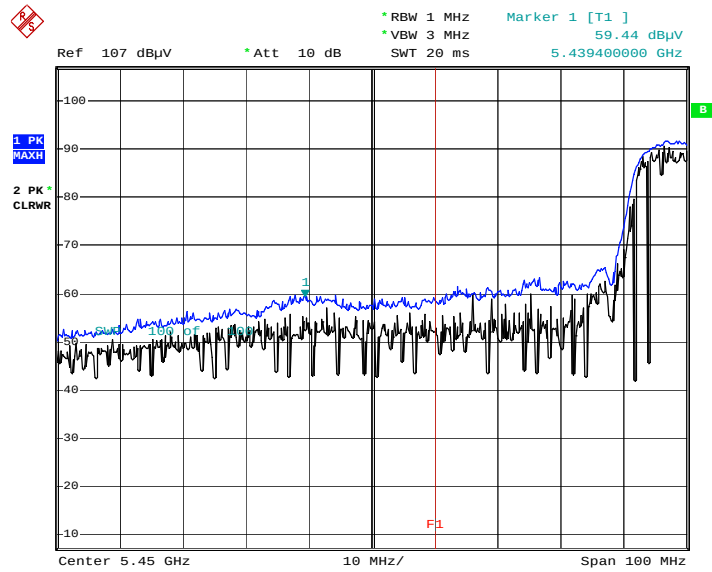
Date: 23.AUG.2018 11:06:30

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT80, Ch.106, Z-H)



Date: 20.AUG.2018 12:02:40

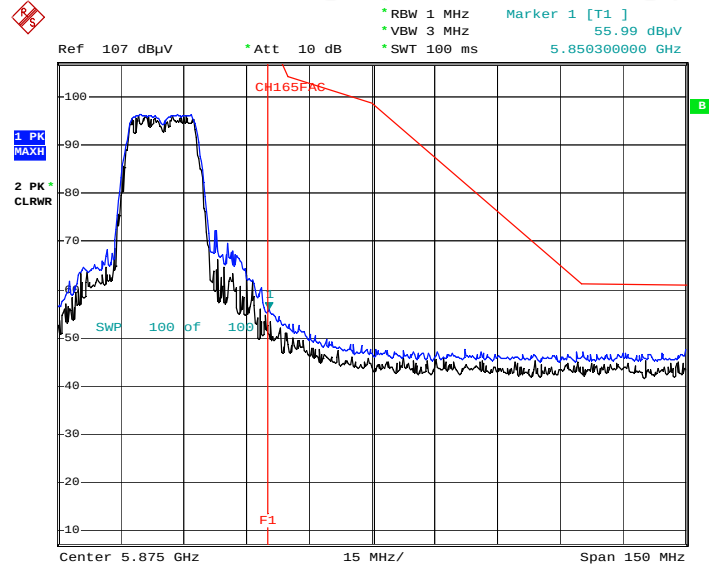
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT80, Ch.106, Z-H)



Date: 20.AUG.2018 12:04:48

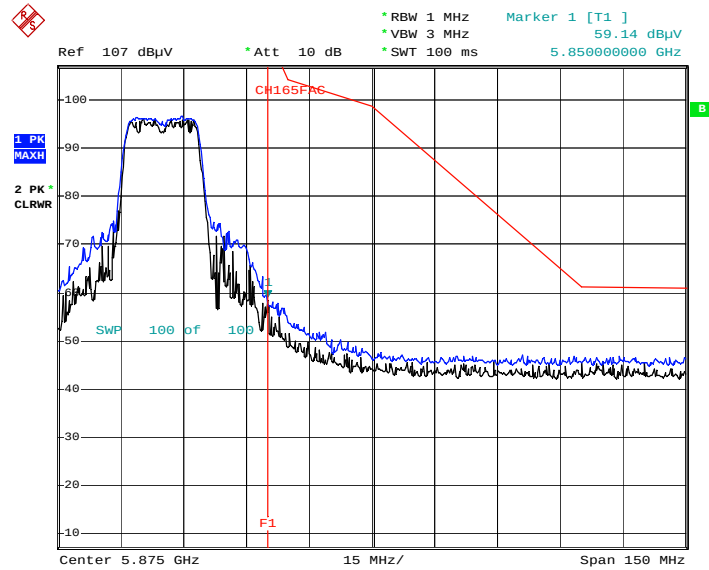
■ **RESULT PLOTS (UNII 3)**

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



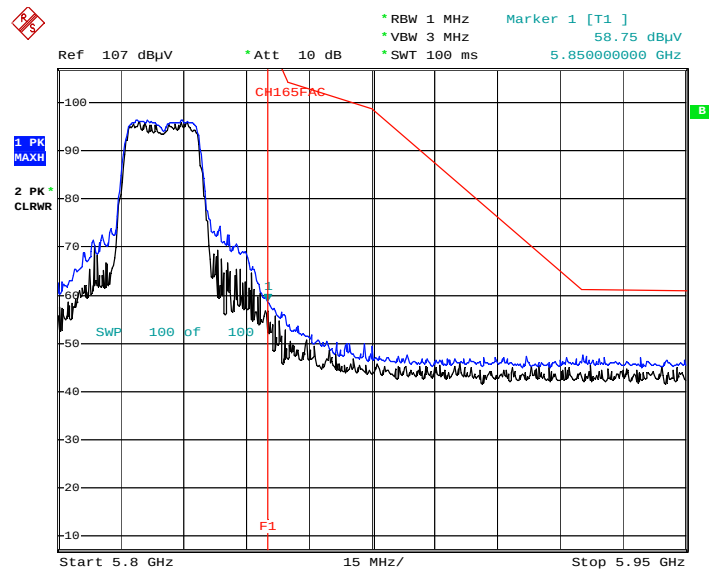
Date: 6.AUG.2018 14:35:19

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



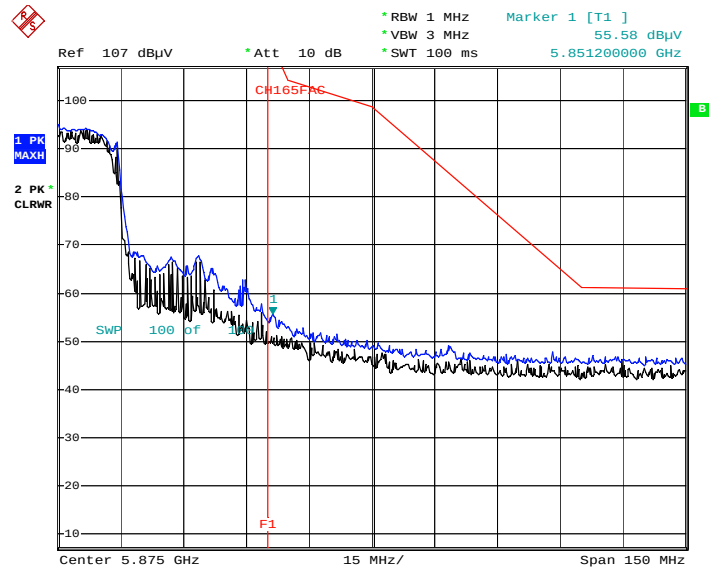
Date: 6.AUG.2018 14:36:50

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



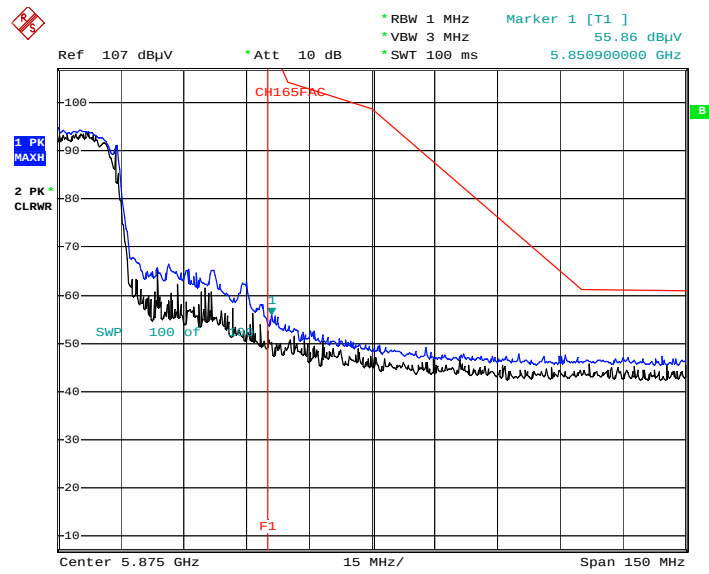
Date: 6.AUG.2018 14:40:44

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



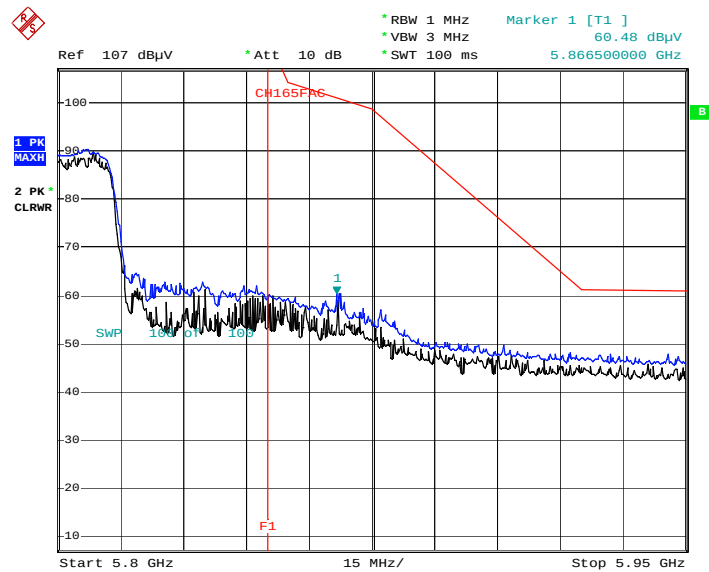
Date: 6.AUG.2018 14:47:49

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



Date: 6.AUG.2018 14:49:03

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



Date: 6.AUG.2018 14:46:49

9.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Reading Value + Correction Factor

[NOTE]

All modes of operation were investigated and the worst case configuration results are reported.

- Mode : Stand alone+Earphone+Travel Adapter, Stand alone+Travel Adapter

- Worstcase : Stand alone+Travel Adapter

RESULT PLOTS

Conducted Emissions (Line 1)

5G_N

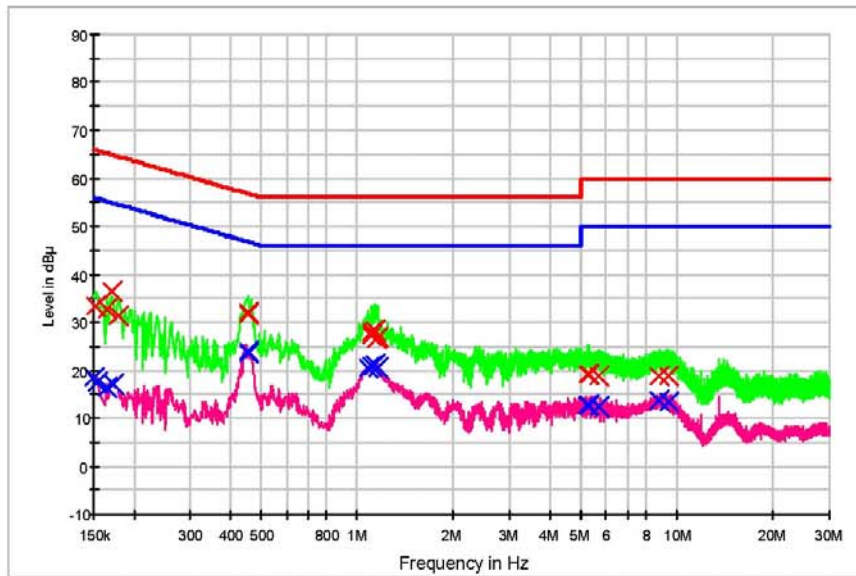
1 / 2

HCT TEST Report

Common Information

EUT: SC-02L
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: 5G_N

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	33.3	9.000	Off	N	9.7	32.6	65.9
0.164000	32.6	9.000	Off	N	9.7	32.7	65.3
0.170000	36.5	9.000	Off	N	9.7	28.4	65.0
0.178000	31.2	9.000	Off	N	9.7	33.4	64.6
0.454000	31.8	9.000	Off	N	9.7	25.0	56.8
0.458000	31.9	9.000	Off	N	9.7	24.8	56.7
1.110000	27.2	9.000	Off	N	9.8	28.8	56.0
1.114000	27.9	9.000	Off	N	9.8	28.1	56.0
1.140000	28.2	9.000	Off	N	9.8	27.8	56.0
1.152000	26.7	9.000	Off	N	9.8	29.3	56.0
1.156000	27.1	9.000	Off	N	9.8	28.9	56.0
1.162000	27.0	9.000	Off	N	9.8	29.0	56.0
5.230000	19.0	9.000	Off	N	10.0	41.0	60.0
5.270000	19.1	9.000	Off	N	10.0	40.9	60.0
5.328000	19.1	9.000	Off	N	10.0	41.0	60.0
5.676000	18.7	9.000	Off	N	10.1	41.3	60.0
8.800000	18.9	9.000	Off	N	10.2	41.1	60.0
9.436000	18.9	9.000	Off	N	10.2	41.1	60.0

2018-08-09

오전 9:31:41

5G_N

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	18.6	9.000	Off	N	9.7	37.4	56.0
0.154000	17.4	9.000	Off	N	9.7	38.4	55.8
0.164000	16.5	9.000	Off	N	9.7	38.7	55.3
0.172000	17.1	9.000	Off	N	9.7	37.8	54.9
0.454000	23.8	9.000	Off	N	9.7	23.0	46.8
0.458000	23.6	9.000	Off	N	9.7	23.1	46.7
1.086000	20.4	9.000	Off	N	9.8	25.6	46.0
1.106000	20.8	9.000	Off	N	9.8	25.2	46.0
1.114000	21.0	9.000	Off	N	9.8	25.0	46.0
1.130000	21.1	9.000	Off	N	9.8	24.9	46.0
1.140000	21.1	9.000	Off	N	9.8	24.9	46.0
1.162000	20.6	9.000	Off	N	9.8	25.4	46.0
5.230000	12.8	9.000	Off	N	10.0	37.2	50.0
5.270000	12.8	9.000	Off	N	10.0	37.2	50.0
5.328000	12.6	9.000	Off	N	10.0	37.4	50.0
5.676000	12.4	9.000	Off	N	10.1	37.6	50.0
8.800000	13.8	9.000	Off	N	10.2	36.2	50.0
9.436000	13.5	9.000	Off	N	10.2	36.5	50.0

2018-08-09

오전 9:31:41

Conducted Emissions (Line 2)

5G_L1

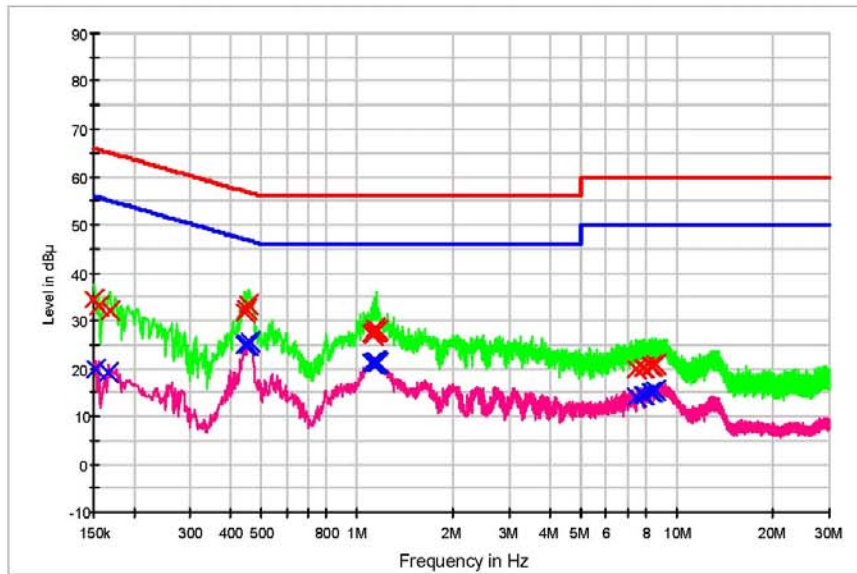
1 / 2

HCT TEST Report

Common Information

EUT: SC-02L
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: 5G_L1

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	34.4	9.000	Off	L1	9.7	31.6	66.0
0.156000	32.9	9.000	Off	L1	9.7	32.7	65.7
0.168000	32.1	9.000	Off	L1	9.7	33.0	65.1
0.446000	31.8	9.000	Off	L1	9.7	25.2	56.9
0.450000	32.3	9.000	Off	L1	9.7	24.5	56.9
0.458000	33.3	9.000	Off	L1	9.7	23.4	56.7
1.110000	27.1	9.000	Off	L1	9.8	28.9	56.0
1.118000	27.1	9.000	Off	L1	9.8	28.9	56.0
1.124000	27.5	9.000	Off	L1	9.8	28.5	56.0
1.138000	28.2	9.000	Off	L1	9.8	27.8	56.0
1.148000	27.5	9.000	Off	L1	9.8	28.5	56.0
1.160000	28.0	9.000	Off	L1	9.8	28.0	56.0
7.466000	19.7	9.000	Off	L1	10.1	40.3	60.0
7.802000	20.2	9.000	Off	L1	10.1	39.8	60.0
7.906000	20.3	9.000	Off	L1	10.1	39.7	60.0
8.258000	20.4	9.000	Off	L1	10.1	39.6	60.0
8.346000	20.6	9.000	Off	L1	10.1	39.4	60.0
8.536000	20.7	9.000	Off	L1	10.1	39.3	60.0

2018-08-09

오전 9:44:37

5G_L1

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	20.0	9.000	Off	L1	9.7	35.9	55.9
0.166000	19.1	9.000	Off	L1	9.7	36.0	55.2
0.446000	24.7	9.000	Off	L1	9.7	22.2	46.9
0.450000	25.3	9.000	Off	L1	9.7	21.6	46.9
0.454000	25.0	9.000	Off	L1	9.7	21.8	46.8
0.460000	25.5	9.000	Off	L1	9.7	21.2	46.7
1.110000	21.3	9.000	Off	L1	9.8	24.7	46.0
1.126000	21.1	9.000	Off	L1	9.8	24.9	46.0
1.138000	21.7	9.000	Off	L1	9.8	24.3	46.0
1.144000	21.5	9.000	Off	L1	9.8	24.5	46.0
1.148000	21.2	9.000	Off	L1	9.8	24.8	46.0
1.160000	21.2	9.000	Off	L1	9.8	24.8	46.0
7.466000	13.9	9.000	Off	L1	10.1	36.1	50.0
7.802000	14.5	9.000	Off	L1	10.1	35.5	50.0
7.906000	14.5	9.000	Off	L1	10.1	35.5	50.0
8.258000	15.0	9.000	Off	L1	10.1	35.0	50.0
8.346000	15.0	9.000	Off	L1	10.1	35.0	50.0
8.536000	15.3	9.000	Off	L1	10.1	34.7	50.0

2018-08-09

오전 9:44:37

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
ESPACE	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

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	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	05/02/2017	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/06/2017	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/27/2017	Annual	101068-SZ
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	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	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

11. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1808-FC026-P
2	HCT-RF-1808-FC027-P
3	HCT-RF-1808-FC028-P
4	HCT-RF-1808-FC029-P
5	HCT-RF-1808-FC030-P
6	HCT-RF-1808-FC031-P
7	HCT-RF-1808-FC032-P