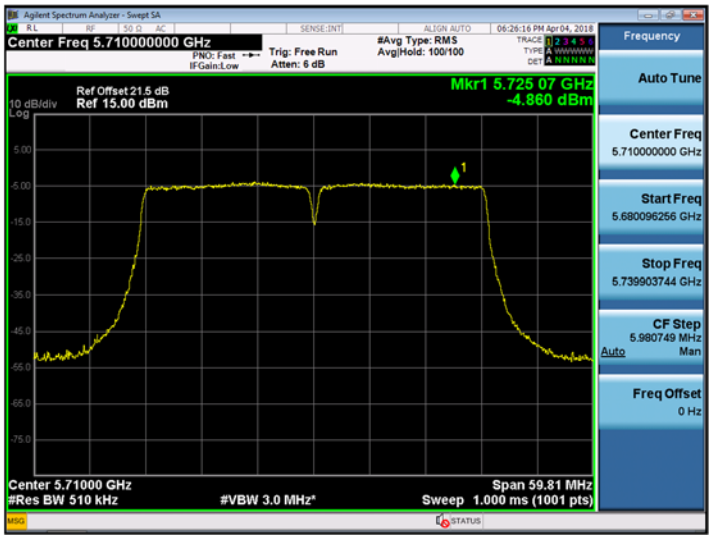
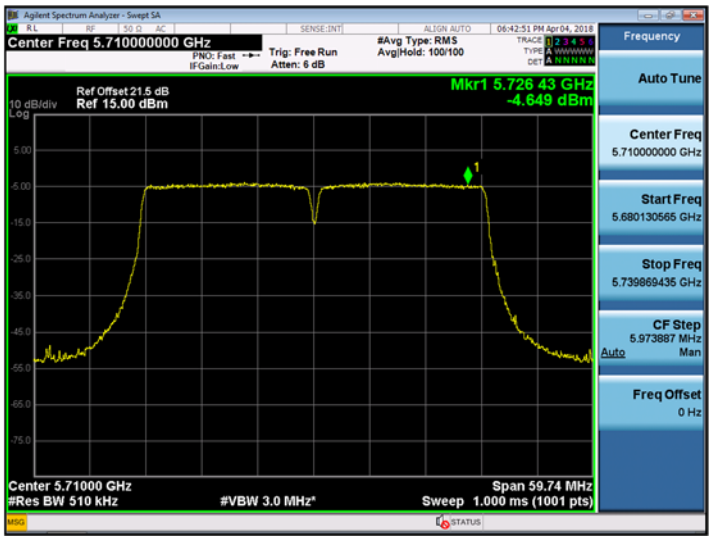
▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 2

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

▣Straddle channels TEST RESULTS for 802.11n_HT40/ac_VHT40_Ant 3

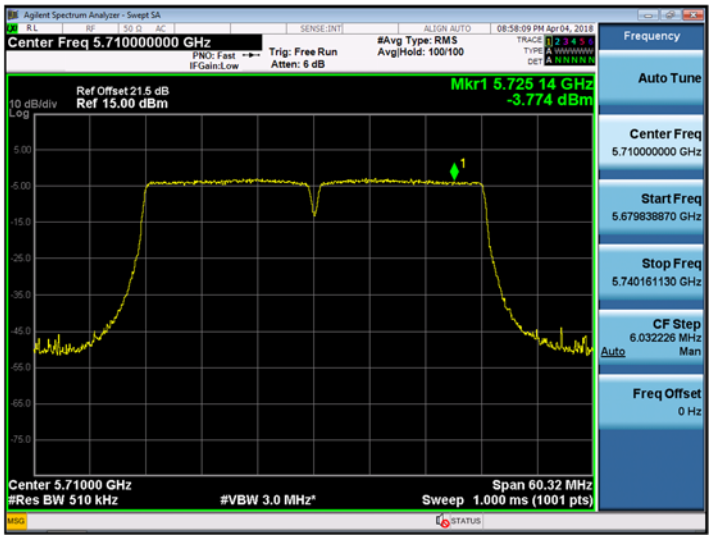
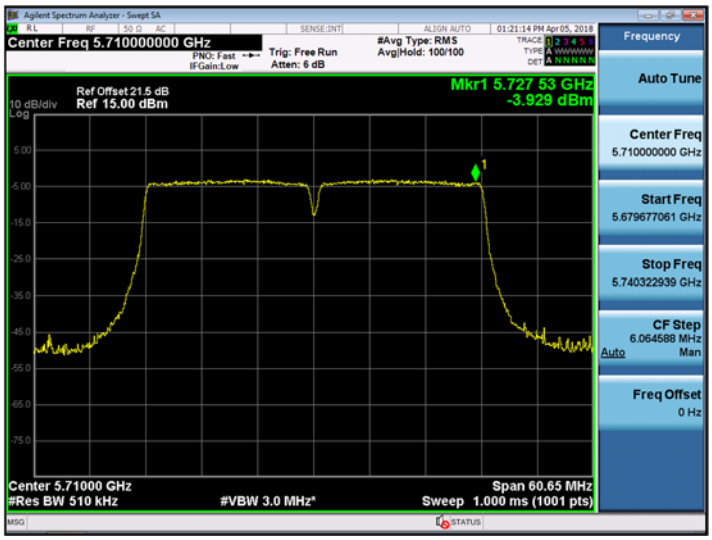
Conducted Power Density Measurements (UNII 2C Band 5710MHz)

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5710	142	802.11n	0.097	0.433	0.530	11	Pass
		802.11ac	0.105	0.130	0.235	11	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	-3.774	0.433	-3.341	30	Pass
		802.11ac	-3.929	0.130	-3.799	30	Pass

▣Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 3

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

▣Straddle channels

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

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

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5710	142	802.11n	5.69	8.98	Pass
		802.11ac	5.68	8.98	Pass

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

Conducted Power Density Measurements (UNII 3 Band 5710MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5710	142	802.11n	2.07	27.98	Pass
		802.11ac	1.80	27.98	Pass

▣Straddle channels TEST RESULTS_Ant 0

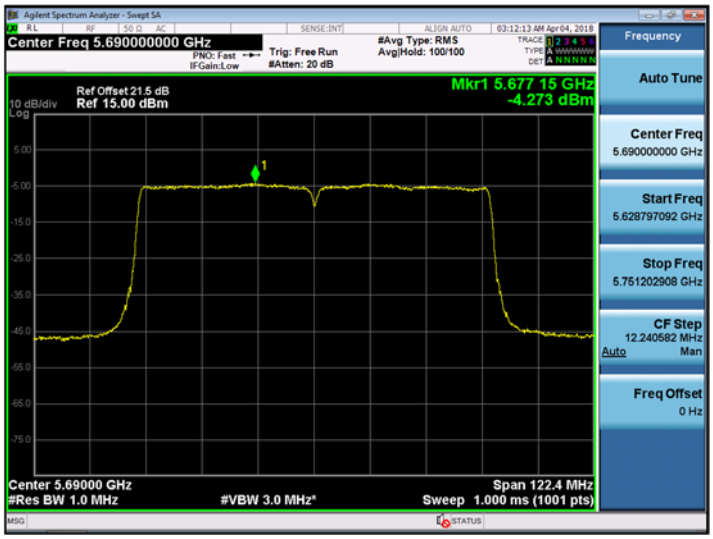
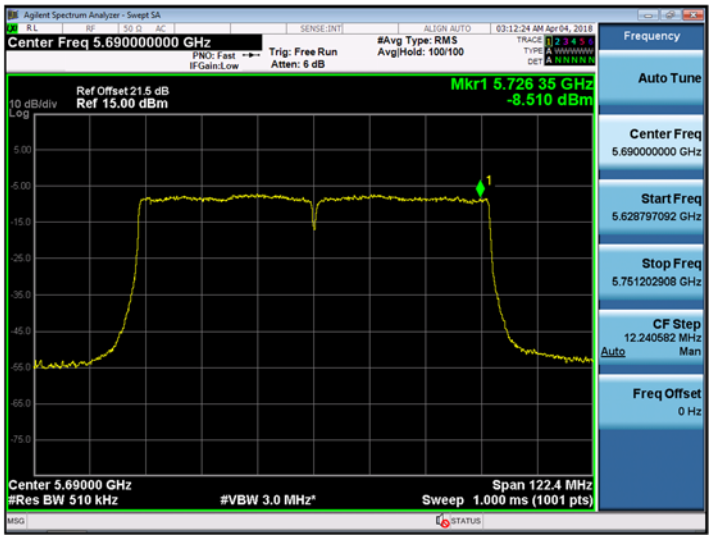
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5690	138	802.11ac	-4.273	0.265	-4.008	11	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	-8.510	0.265	-8.245	30	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 0

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

▣Straddle channels TEST RESULTS_Ant 1

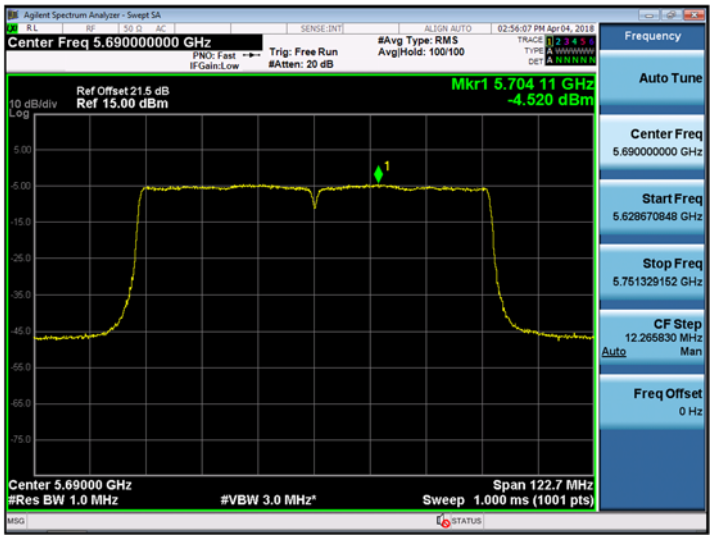
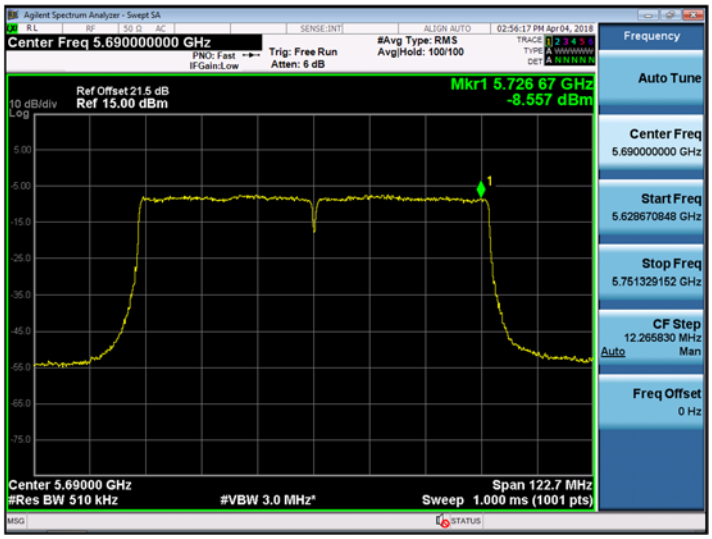
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5690	138	802.11ac	-4.520	0.265	-4.255	11	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	-8.557	0.265	-8.292	30	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 1

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

▣Straddle channels TEST RESULTS_Ant 2

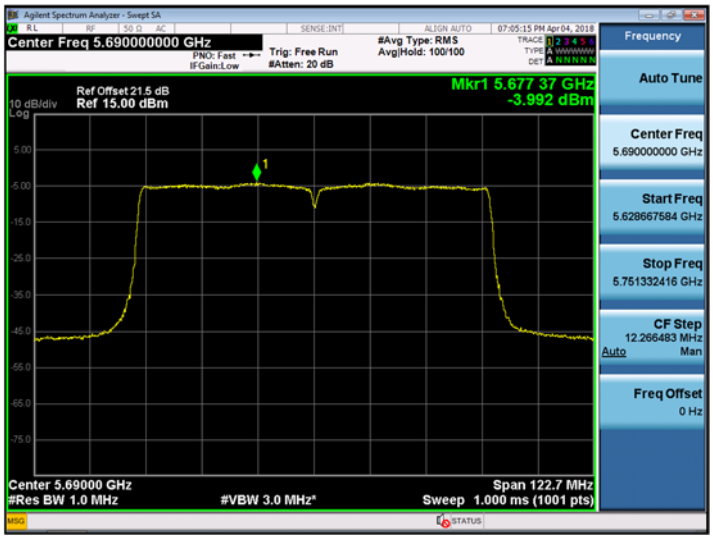
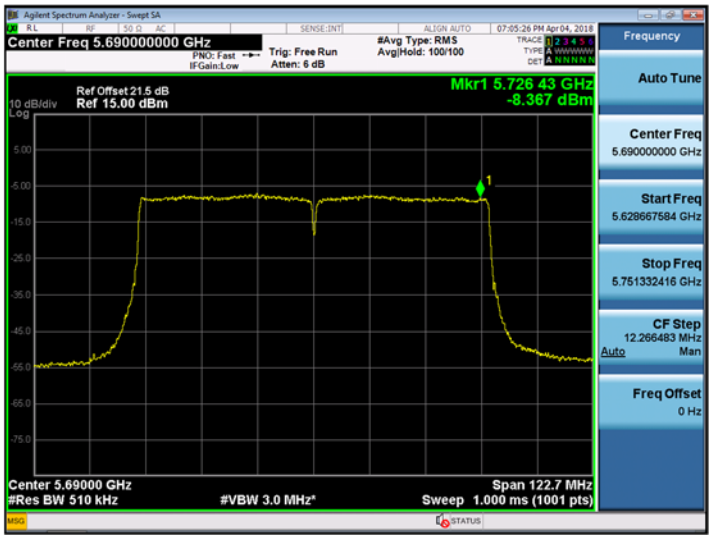
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

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	-3.992	0.265	-3.727	11	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	-8.367	0.265	-8.102	30	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 2

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

▣Straddle channels TEST RESULTS_Ant 3

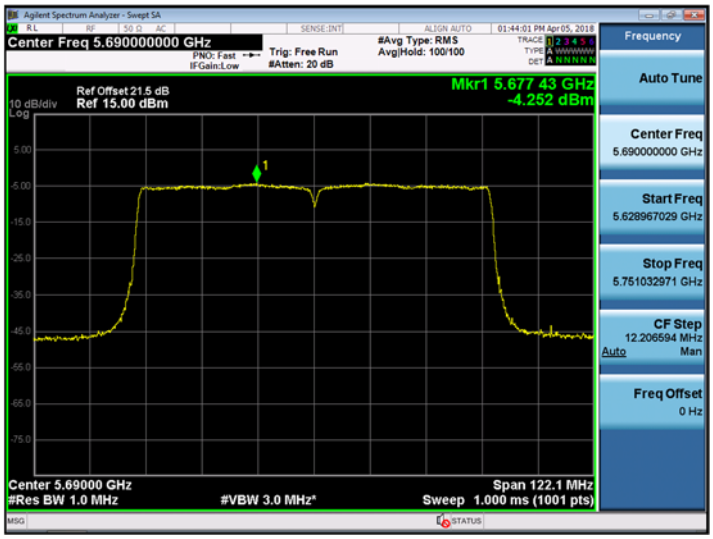
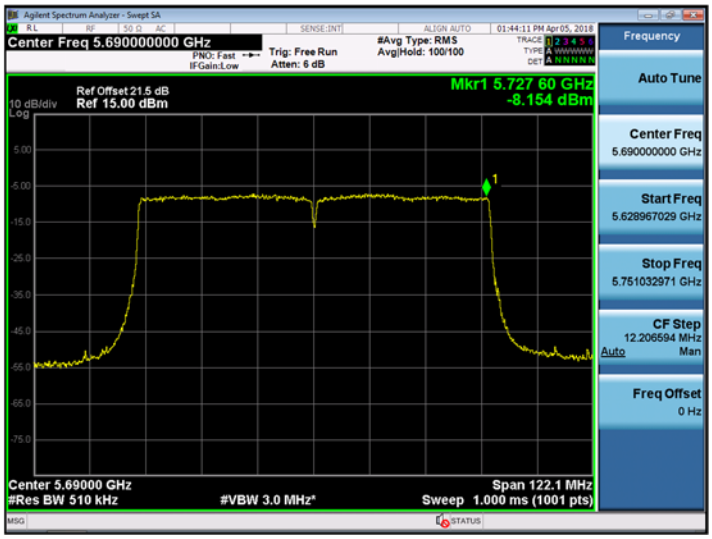
Conducted Power Density Measurements (UNII 2C Band 5690MHz)

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	-4.252	0.265	-3.987	11	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	-8.154	0.265	-7.889	30	Pass

▣Straddle channels TEST Plot for 802.11ac_VHT80_Ant 3

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

▣Straddle channels

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

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

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5690	138	802.11ac	2.03	8.98	Pass

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

Conducted Power Density Measurements (UNII 3 Band 5690MHz)

Frequency (MHz)	Channel No.	Mode	Test Result		
			Measured Power Density (dBm)	Limit (dBm)	Pass/Fail
5690	138	802.11ac	-2.11	27.98	Pass

9.5 FREQUENCY STABILITY

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

[Ant.0]

20 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5180023.89	23.89
100%		-30	5180028.82	28.82
100%		-20	5180032.37	32.37
100%		-10	5180037.80	37.80
100%		0	5180041.27	41.27
100%		+10	5180041.52	41.52
100%		+30	5180048.16	48.16
100%		+40	5180052.84	52.84
100%		+50	5180056.10	56.10
115%	13.80	+20	5180040.47	40.47
Batt. Endpoint	10.20	+20	5180038.27	38.27

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,260,000,000 Hz
CHANNEL: 52
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5260022.73	22.73
100%		-30	5260027.47	27.47
100%		-20	5260033.00	33
100%		-10	5260037.94	37.94
100%		0	5260040.86	40.86
100%		+10	5260078.28	78.28
100%		+30	5260053.00	53
100%		+40	5260056.63	56.63
100%		+50	5260040.87	40.87
115%	13.80	+20	5260036.88	36.88
Batt. Endpoint	10.20	+20	5260035.06	35.06

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5500022.88	22.88
100%		-30	5500027.94	27.94
100%		-20	5500033.01	33.01
100%		-10	5500037.40	37.4
100%		0	5500040.67	40.67
100%		+10	5500049.72	49.72
100%		+30	5500054.57	54.57
100%		+40	5500057.83	57.83
100%		+50	5500040.59	40.59
115%	13.80	+20	5500036.33	36.33
Batt. Endpoint	10.20	+20	5500034.30	34.3

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5745026.25	26.25
100%		-30	5745029.07	29.07
100%		-20	5745032.26	32.26
100%		-10	5745036.86	36.86
100%		0	5745041.76	41.76
100%		+10	5745049.79	49.79
100%		+30	5745054.46	54.46
100%		+40	5745057.22	57.22
100%		+50	5745041.82	41.82
115%	13.80	+20	5745037.32	37.32
Batt. Endpoint	10.20	+20	5745036.50	36.5

Note:

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

40 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5190023.27	23.27
100%		-30	5190026.97	26.97
100%		-20	5190031.50	31.50
100%		-10	5190037.60	37.60
100%		0	5190040.19	40.19
100%		+10	5190050.03	50.03
100%		+30	5190052.18	52.18
100%		+40	5190059.38	59.38
100%		+50	5190041.68	41.68
115%	13.80	+20	5190035.27	35.27
Batt. Endpoint	10.20	+20	5190038.31	38.31

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5270024.84	24.84
100%		-30	5270028.00	28.00
100%		-20	5270032.34	32.34
100%		-10	5270036.57	36.57
100%		0	5270040.90	40.9
100%		+10	5270048.56	48.56
100%		+30	5270052.90	52.9
100%		+40	5270056.54	56.54
100%		+50	5270057.50	57.50
115%	13.80	+20	5270041.12	41.12
Batt. Endpoint	10.20	+20	5270036.08	36.08

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5510024.89	24.89
100%		-30	5510029.42	29.42
100%		-20	5510032.76	32.76
100%		-10	5510037.78	37.78
100%		0	5510041.15	41.15
100%		+10	5510050.20	50.2
100%		+30	5510052.71	52.71
100%		+40	5510057.41	57.41
100%		+50	5510041.29	41.29
115%	13.80	+20	5510035.60	35.60
Batt. Endpoint	10.20	+20	5510038.73	38.73

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5755035.12	35.12
100%		-30	5755027.35	27.35
100%		-20	5755032.20	32.2
100%		-10	5755036.60	36.6
100%		0	5755041.63	41.63
100%		+10	5755049.86	49.86
100%		+30	5755054.33	54.33
100%		+40	5755056.78	56.78
100%		+50	5755041.33	41.33
115%	13.80	+20	5755037.55	37.55
Batt. Endpoint	10.20	+20	5755036.09	36.09

Note:

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

80 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5210023.35	23.35
100%		-30	5210027.46	27.46
100%		-20	5210033.57	33.57
100%		-10	5210035.14	35.14
100%		0	5210040.76	40.76
100%		+10	5210048.03	48.03
100%		+30	5210052.72	52.72
100%		+40	5210058.37	58.37
100%		+50	5210040.99	40.99
115%	13.80	+20	5210036.79	36.79
Batt. Endpoint	10.20	+20	5210038.21	38.21

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5290026.09	26.09
100%		-30	5290028.26	28.26
100%		-20	5290031.58	31.58
100%		-10	5290037.06	37.06
100%		0	5290041.81	41.81
100%		+10	5290048.51	48.51
100%		+30	5290052.46	52.46
100%		+40	5290058.96	58.96
100%		+50	5290041.75	41.75
115%	13.80	+20	5290036.37	36.37
Batt. Endpoint	10.20	+20	5290036.94	36.94

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5530025.10	25.10
100%		-30	5530028.59	28.59
100%		-20	5530031.31	31.31
100%		-10	5530037.80	37.8
100%		0	5530041.66	41.66
100%		+10	5530049.90	49.9
100%		+30	5530052.36	52.36
100%		+40	5530026.90	26.9
100%		+50	5530041.33	41.33
115%	13.80	+20	5530038.32	38.32
Batt. Endpoint	10.20	+20	5530035.01	35.01

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5775025.56	25.56
100%		-30	5775028.19	28.19
100%		-20	5775032.23	32.23
100%		-10	5775036.71	36.71
100%		0	5775040.02	40.02
100%		+10	5775049.69	49.69
100%		+30	5775053.90	53.9
100%		+40	5775057.22	57.22
100%		+50	5775041.51	41.51
115%	13.80	+20	5775036.05	36.05
Batt. Endpoint	10.20	+20	5775035.86	35.86

Note:

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

[Ant.1]

20 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5180024.48	24.48
100%		-30	5180028.68	28.68
100%		-20	5180031.13	31.13
100%		-10	5180036.94	36.94
100%		0	5180041.04	41.04
100%		+10	5180050.40	50.40
100%		+30	5180053.44	53.44
100%		+40	5180057.27	57.27
100%		+50	5180040.94	40.94
115%	13.80	+20	5180038.59	38.59
Batt. Endpoint	10.20	+20	5180037.25	37.25

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,260,000,000 Hz
CHANNEL: 52
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5260025.40	25.40
100%		-30	5260026.16	26.16
100%		-20	5260031.85	31.85
100%		-10	5260036.20	36.2
100%		0	5260041.35	41.35
100%		+10	5260049.15	49.15
100%		+30	5260054.00	54
100%		+40	5260059.35	59.35
100%		+50	5260040.46	40.46
115%	13.80	+20	5260036.80	36.80
Batt. Endpoint	10.20	+20	5260038.09	38.09

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5500023.78	23.78
100%		-30	5500027.82	27.82
100%		-20	5500034.34	34.34
100%		-10	5500036.78	36.78
100%		0	5500041.51	41.51
100%		+10	5500048.27	48.27
100%		+30	5500052.82	52.82
100%		+40	5500056.92	56.92
100%		+50	5500040.43	40.43
115%	13.80	+20	5500036.73	36.73
Batt. Endpoint	10.20	+20	5500037.67	37.67

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5745024.51	24.51
100%		-30	5745028.74	28.74
100%		-20	5745032.63	32.63
100%		-10	5745036.85	36.85
100%		0	5745041.09	41.09
100%		+10	5745049.15	49.15
100%		+30	5745052.75	52.75
100%		+40	5745059.36	59.36
100%		+50	5745040.27	40.27
115%	13.80	+20	5745034.78	34.78
Batt. Endpoint	10.20	+20	5745036.61	36.61

Note:

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

40 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5190023.99	23.99
100%		-30	5190027.34	27.34
100%		-20	5190032.08	32.08
100%		-10	5190038.63	38.63
100%		0	5190040.20	40.20
100%		+10	5190049.31	49.31
100%		+30	5190052.56	52.56
100%		+40	5190057.54	57.54
100%		+50	5190040.54	40.54
115%	13.80	+20	5190036.26	36.26
Batt. Endpoint	10.20	+20	5190036.91	36.91

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5270023.60	23.60
100%		-30	5270029.30	29.30
100%		-20	5270032.80	32.8
100%		-10	5270036.81	36.81
100%		0	5270041.35	41.35
100%		+10	5270048.46	48.46
100%		+30	5270054.04	54.04
100%		+40	5270057.03	57.03
100%		+50	5270039.92	39.92
115%	13.80	+20	5270038.49	38.49
Batt. Endpoint	10.20	+20	5270036.91	36.91

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5510022.25	22.25
100%		-30	5510029.78	29.78
100%		-20	5510032.37	32.37
100%		-10	5510037.09	37.09
100%		0	5510041.70	41.7
100%		+10	5510048.69	48.69
100%		+30	5510053.31	53.31
100%		+40	5510058.16	58.16
100%		+50	5510040.58	40.58
115%	13.80	+20	5510036.88	36.88
Batt. Endpoint	10.20	+20	5510037.12	37.12

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5755024.61	24.61
100%		-30	5755026.82	26.82
100%		-20	5755031.56	31.56
100%		-10	5755038.11	38.11
100%		0	5755041.95	41.95
100%		+10	5755050.04	50.04
100%		+30	5755052.98	52.98
100%		+40	5755054.82	54.82
100%		+50	5755040.69	40.69
115%	13.80	+20	5755037.17	37.17
Batt. Endpoint	10.20	+20	5755037.69	37.69

Note:

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

80 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5210023.01	23.01
100%		-30	5210029.79	29.79
100%		-20	5210033.53	33.53
100%		-10	5210035.54	35.54
100%		0	5210040.28	40.28
100%		+10	5210049.54	49.54
100%		+30	5210054.50	54.50
100%		+40	5210057.92	57.92
100%		+50	5210041.44	41.44
115%	13.80	+20	5210037.88	37.88
Batt. Endpoint	10.20	+20	5210035.33	35.33

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5290023.59	23.59
100%		-30	5290057.77	57.77
100%		-20	5290030.62	30.62
100%		-10	5290037.71	37.71
100%		0	5290040.60	40.6
100%		+10	5290049.94	49.94
100%		+30	5290052.49	52.49
100%		+40	5290057.20	57.2
100%		+50	5290041.15	41.15
115%	13.80	+20	5290038.54	38.54
Batt. Endpoint	10.20	+20	5290034.53	34.53

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5530026.01	26.01
100%		-30	5530026.52	26.52
100%		-20	5530033.39	33.39
100%		-10	5530036.93	36.93
100%		0	5530041.27	41.27
100%		+10	5530049.71	49.71
100%		+30	5530053.58	53.58
100%		+40	5530058.18	58.18
100%		+50	5530040.85	40.85
115%	13.80	+20	5530035.35	35.35
Batt. Endpoint	10.20	+20	5530038.08	38.08

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5775023.03	23.03
100%		-30	5775027.20	27.20
100%		-20	5775033.07	33.07
100%		-10	5775036.99	36.99
100%		0	5775041.12	41.12
100%		+10	5775049.74	49.74
100%		+30	5775053.63	53.63
100%		+40	5775058.58	58.58
100%		+50	5775040.80	40.80
115%	13.80	+20	5775037.87	37.87
Batt. Endpoint	10.20	+20	5775037.79	37.79

Note:

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

[Ant.2]

20 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5180024.53	24.53
100%		-30	5180027.80	27.80
100%		-20	5180033.63	33.63
100%		-10	5180036.00	36.00
100%		0	5180041.59	41.59
100%		+10	5180049.81	49.81
100%		+30	5180052.79	52.79
100%		+40	5180056.14	56.14
100%		+50	5180041.05	41.05
115%	13.80	+20	5180035.50	35.50
Batt. Endpoint	10.20	+20	5180036.79	36.79

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,260,000,000 Hz
CHANNEL: 52
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5260023.72	23.72
100%		-30	5260026.33	26.33
100%		-20	5260033.07	33.07
100%		-10	5260037.72	37.72
100%		0	5260040.01	40.01
100%		+10	5260048.28	48.28
100%		+30	5260054.05	54.05
100%		+40	5260058.71	58.71
100%		+50	5260041.89	41.89
115%	13.80	+20	5260037.55	37.55
Batt. Endpoint	10.20	+20	5260034.60	34.6

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5500025.76	25.76
100%		-30	5500028.76	28.76
100%		-20	5500031.31	31.31
100%		-10	5500041.31	41.31
100%		0	5500048.76	48.76
100%		+10	5500054.44	54.44
100%		+30	5500057.57	57.57
100%		+40	5500040.62	40.62
100%		+50	5500041.29	41.29
115%	13.80	+20	5500036.49	36.49
Batt. Endpoint	10.20	+20	5500036.52	36.52

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5745026.66	26.66
100%		-30	5745028.73	28.73
100%		-20	5745031.68	31.68
100%		-10	5745035.73	35.73
100%		0	5745040.17	40.17
100%		+10	5745049.89	49.89
100%		+30	5745052.16	52.16
100%		+40	5745058.62	58.62
100%		+50	5745040.01	40.01
115%	13.80	+20	5745035.76	35.76
Batt. Endpoint	10.20	+20	5745039.00	39

Note:

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

40 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5190023.87	23.87
100%		-30	5190027.73	27.73
100%		-20	5190031.86	31.86
100%		-10	5190037.33	37.33
100%		0	5190041.64	41.64
100%		+10	5190049.92	49.92
100%		+30	5190051.89	51.89
100%		+40	5190053.22	53.22
100%		+50	5190058.65	58.65
115%	13.80	+20	5190040.82	40.82
Batt. Endpoint	10.20	+20	5190035.89	35.89

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5270023.51	23.51
100%		-30	5270028.10	28.10
100%		-20	5270032.83	32.83
100%		-10	5270037.56	37.56
100%		0	5270041.12	41.12
100%		+10	5270049.56	49.56
100%		+30	5270054.56	54.56
100%		+40	5270056.19	56.19
100%		+50	5270041.21	41.21
115%	13.80	+20	5270035.89	35.89
Batt. Endpoint	10.20	+20	5270036.55	36.55

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5510022.07	22.07
100%		-30	5510028.15	28.15
100%		-20	5510032.36	32.36
100%		-10	5510036.79	36.79
100%		0	5510041.25	41.25
100%		+10	5510048.45	48.45
100%		+30	5510053.24	53.24
100%		+40	5510057.27	57.27
100%		+50	5510041.76	41.76
115%	13.80	+20	5510037.15	37.15
Batt. Endpoint	10.20	+20	5510038.94	38.94

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5755026.29	26.29
100%		-30	5755029.81	29.81
100%		-20	5755034.21	34.21
100%		-10	5755036.38	36.38
100%		0	5755041.51	41.51
100%		+10	5755049.74	49.74
100%		+30	5755043.08	43.08
100%		+40	5755056.88	56.88
100%		+50	5755040.99	40.99
115%	13.80	+20	5755035.93	35.93
Batt. Endpoint	10.20	+20	5755037.49	37.49

Note:

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

80 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5210018.24	18.24
100%		-30	5210054.27	54.27
100%		-20	5210036.84	36.84
100%		-10	5210044.51	44.51
100%		0	5210038.55	38.55
100%		+10	5210024.26	24.26
100%		+30	5210021.20	21.20
100%		+40	5210047.22	47.22
100%		+50	5210050.59	50.59
115%	13.80	+20	5210040.86	40.86
Batt. Endpoint	10.20	+20	5210034.27	34.27

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5290016.57	16.57
100%		-30	5290059.51	59.51
100%		-20	5290036.22	36.22
100%		-10	5290040.54	40.54
100%		0	5290033.21	33.21
100%		+10	5290027.68	27.68
100%		+30	5290024.29	24.29
100%		+40	5290046.51	46.51
100%		+50	5290055.55	55.55
115%	13.80	+20	5290041.60	41.60
Batt. Endpoint	10.20	+20	5290034.20	34.2

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5530022.47	22.47
100%		-30	5530050.51	50.51
100%		-20	5530036.58	36.58
100%		-10	5530040.49	40.49
100%		0	5530033.21	33.21
100%		+10	5530028.14	28.14
100%		+30	5530026.52	26.52
100%		+40	5530044.55	44.55
100%		+50	5530050.37	50.37
115%	13.80	+20	5530040.95	40.95
Batt. Endpoint	10.20	+20	5530036.50	36.5

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5775027.00	27.00
100%		-30	5775048.59	48.59
100%		-20	5775040.52	40.52
100%		-10	5775046.81	46.81
100%		0	5775033.25	33.25
100%		+10	5775030.84	30.84
100%		+30	5775030.21	30.21
100%		+40	5775046.52	46.52
100%		+50	5775057.49	57.49
115%	13.80	+20	5775040.11	40.11
Batt. Endpoint	10.20	+20	5775036.50	36.5

Note:

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

[Ant.3]

20 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5180023.34	23.34
100%		-30	5180026.55	26.55
100%		-20	5180033.89	33.89
100%		-10	5180036.11	36.11
100%		0	5180040.87	40.87
100%		+10	5180048.98	48.98
100%		+30	5180054.37	54.37
100%		+40	5180056.53	56.53
100%		+50	5180041.37	41.37
115%	13.80	+20	5180034.93	34.93
Batt. Endpoint	10.20	+20	5180038.54	38.54

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,260,000,000 Hz
CHANNEL: 52
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5260023.00	23.00
100%		-30	5260027.70	27.70
100%		-20	5260032.02	32.02
100%		-10	5260037.78	37.78
100%		0	5260040.85	40.85
100%		+10	5260049.49	49.49
100%		+30	5260053.64	53.64
100%		+40	5260057.43	57.43
100%		+50	5260041.15	41.15
115%	13.80	+20	5260035.63	35.63
Batt. Endpoint	10.20	+20	5260037.04	37.04

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,500,000,000 Hz
CHANNEL: 100
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5500025.08	25.08
100%		-30	5500029.44	29.44
100%		-20	5500033.63	33.63
100%		-10	5500037.87	37.87
100%		0	5500041.00	41
100%		+10	5500049.56	49.56
100%		+30	5500053.88	53.88
100%		+40	5500058.39	58.39
100%		+50	#VALUE!	40.58
115%	13.80	+20	5500035.78	35.78
Batt. Endpoint	10.20	+20	5500036.69	36.69

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,745,000,000 Hz
CHANNEL: 149
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5745024.15	24.15
100%		-30	5745029.42	29.42
100%		-20	5745034.07	34.07
100%		-10	5745035.39	35.39
100%		0	5745041.72	41.72
100%		+10	5745049.20	49.2
100%		+30	5745053.66	53.66
100%		+40	5745058.27	58.27
100%		+50	5745040.13	40.13
115%	13.80	+20	5745037.24	37.24
Batt. Endpoint	10.20	+20	5745035.99	35.99

Note:

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

40 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,190,000,000 Hz

CHANNEL: 38

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5190023.57	23.57
100%		-30	5190028.29	28.29
100%		-20	5190033.54	33.54
100%		-10	5190036.86	36.86
100%		0	5190040.29	40.29
100%		+10	5190049.12	49.12
100%		+30	5190054.34	54.34
100%		+40	5190056.55	56.55
100%		+50	5190040.17	40.17
115%	13.80	+20	5190036.85	36.85
Batt. Endpoint	10.20	+20	5190035.89	35.89

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,270,000,000 Hz
CHANNEL: 54
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5270023.15	23.15
100%		-30	5270029.08	29.08
100%		-20	5270033.30	33.3
100%		-10	5270032.46	32.46
100%		0	5270037.91	37.91
100%		+10	5270041.81	41.81
100%		+30	5270048.45	48.45
100%		+40	5270053.20	53.2
100%		+50	5270054.74	54.74
115%	13.80	+20	5270041.60	41.60
Batt. Endpoint	10.20	+20	5270037.32	37.32

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,510,000,000 Hz
CHANNEL: 102
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5510024.88	24.88
100%		-30	5510028.30	28.30
100%		-20	5510033.40	33.4
100%		-10	5510037.96	37.96
100%		0	5510040.89	40.89
100%		+10	5510048.83	48.83
100%		+30	5510052.40	52.4
100%		+40	5510056.03	56.03
100%		+50	5510040.36	40.36
115%	13.80	+20	5510037.67	37.67
Batt. Endpoint	10.20	+20	5510037.73	37.73

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,755,000,000 Hz
CHANNEL: 151
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5755025.57	25.57
100%		-30	5755030.15	30.15
100%		-20	5755033.61	33.61
100%		-10	5755034.40	34.4
100%		0	5755040.18	40.18
100%		+10	5755049.24	49.24
100%		+30	5755053.36	53.36
100%		+40	5755057.63	57.63
100%		+50	5755040.20	40.20
115%	13.80	+20	5755036.48	36.48
Batt. Endpoint	10.20	+20	5755037.00	37

Note:

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

80 MHz BW

OPERATING BAND: UNII Band 1

OPERATING FREQUENCY: 5,210,000,000 Hz

CHANNEL: 42

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5210027.60	27.60
100%		-30	5210056.54	56.54
100%		-20	5210037.88	37.88
100%		-10	5210042.69	42.69
100%		0	5210024.81	24.81
100%		+10	5210024.31	24.31
100%		+30	5210049.51	49.51
100%		+40	5210047.56	47.56
100%		+50	5210055.55	55.55
115%	13.80	+20	5210046.21	46.21
Batt. Endpoint	10.20	+20	5210027.50	27.50

Note:

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

OPERATING BAND: UNII Band 2A
OPERATING FREQUENCY: 5,290,000,000 Hz
CHANNEL: 58
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5290024.57	24.57
100%		-30	5290056.55	56.55
100%		-20	5290024.84	24.84
100%		-10	5290043.51	43.51
100%		0	5290037.66	37.66
100%		+10	5290034.27	34.27
100%		+30	5290031.54	31.54
100%		+40	5290041.66	41.66
100%		+50	5290059.57	59.57
115%	13.80	+20	5290047.56	47.56
Batt. Endpoint	10.20	+20	5290024.81	24.81

Note:

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

OPERATING BAND: UNII Band 2C
OPERATING FREQUENCY: 5,530,000,000 Hz
CHANNEL: 106
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5530024.55	24.55
100%		-30	5530054.24	54.24
100%		-20	5530043.51	43.51
100%		-10	5530043.22	43.22
100%		0	5530027.51	27.51
100%		+10	5530026.87	26.87
100%		+30	5530040.84	40.84
100%		+40	5530044.51	44.51
100%		+50	5530053.51	53.51
115%	13.80	+20	5530038.57	38.57
Batt. Endpoint	10.20	+20	5530036.11	36.11

Note:

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

OPERATING BAND: UNII Band 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5775016.50	16.50
100%		-30	5775054.51	54.51
100%		-20	5775033.21	33.21
100%		-10	5775038.41	38.41
100%		0	5775042.68	42.68
100%		+10	5775030.85	30.85
100%		+30	5775024.22	24.22
100%		+40	5775025.12	25.12
100%		+50	5775042.84	42.84
115%	13.80	+20	5775040.12	40.12
Batt. Endpoint	10.20	+20	5775032.47	32.47

Note:

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

[Ant.0, 2]

160 MHz BW

OPERATING FREQUENCY: 5,250,000,000 Hz

CHANNEL: 50

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5250016.27	16.27
100%		-30	5250040.58	40.58
100%		-20	5250043.55	43.55
100%		-10	5250036.27	36.27
100%		0	5250024.13	24.13
100%		+10	5250027.55	27.55
100%		+30	5250033.57	33.57
100%		+40	5250049.87	49.87
100%		+50	5250059.87	59.87
115%	13.80	+20	5250040.66	40.66
Batt. Endpoint	10.20	+20	5250028.55	28.55

Note:

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

OPERATING FREQUENCY: 5,570,000,000 Hz
CHANNEL: 114
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5570022.18	22.18
100%		-30	5570050.84	50.84
100%		-20	5570034.55	34.55
100%		-10	5570049.51	49.51
100%		0	5570024.57	24.57
100%		+10	5570021.66	21.66
100%		+30	5570057.55	57.55
100%		+40	5570046.27	46.27
100%		+50	5570034.87	34.87
115%	13.80	+20	5570019.20	19.20
Batt. Endpoint	10.20	+20	5570044.50	44.5

Note:

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

[Ant.1, 3]

160 MHz BW

OPERATING FREQUENCY: 5,250,000,000 Hz

CHANNEL: 50

REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5250020.98	20.98
100%		-30	5250057.66	57.66
100%		-20	5250034.25	34.25
100%		-10	5250041.59	41.59
100%		0	5250031.55	31.55
100%		+10	5250028.67	28.67
100%		+30	5250022.16	22.16
100%		+40	5250048.59	48.59
100%		+50	5250052.11	52.11
115%	13.80	+20	5250043.57	43.57
Batt. Endpoint	10.20	+20	5250036.79	36.79

Note:

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

OPERATING FREQUENCY: 5,570,000,000 Hz
CHANNEL: 114
REFERENCE VOLTAGE: 12 VDC

Voltage	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	12.00	+20(Ref)	5570022.37	22.37
100%		-30	5570062.47	62.47
100%		-20	5570037.89	37.89
100%		-10	5570042.17	42.17
100%		0	5570033.54	33.54
100%		+10	5570024.59	24.59
100%		+30	5570024.55	24.55
100%		+40	5570047.54	47.54
100%		+50	5570056.78	56.78
115%	13.80	+20	5570041.67	41.67
Batt. Endpoint	10.20	+20	5570034.55	34.55

Note:

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

9.6 RADIATED MEASUREMENT

9.6.1 RADIATED SPURIOUS EMISSIONS.

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

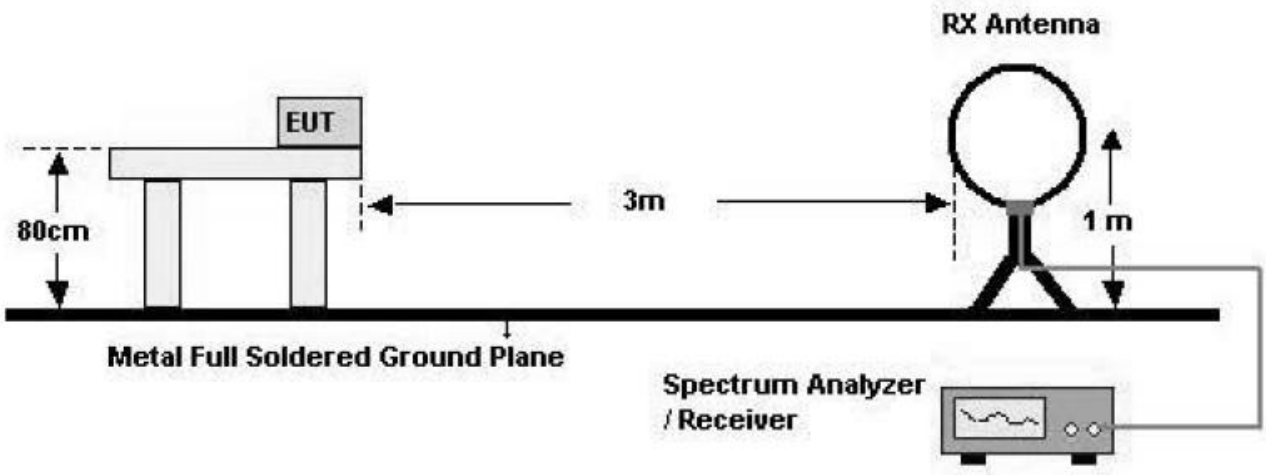
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

▣ §15.407, KDB 789033 D02

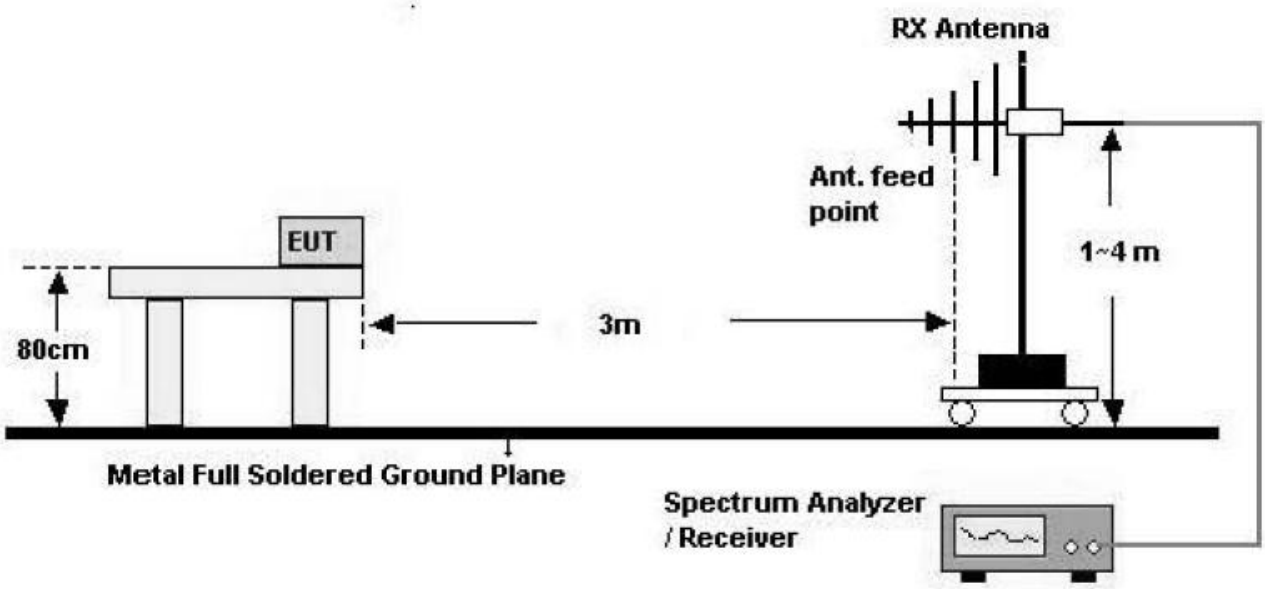
All harmonics that do not lie in a restricted band are subject to a peak limit of -27 dBm/MHz. At a distance of 3 meters the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2 dB to the EIRP limit of -27 dBm/MHz to obtain the limit for out of band spurious emissions of 68.2 dBμV/m. Espectally, for transmitter operating in the 5725 Mhz – 5850 MHz : all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequency 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Test Configuration

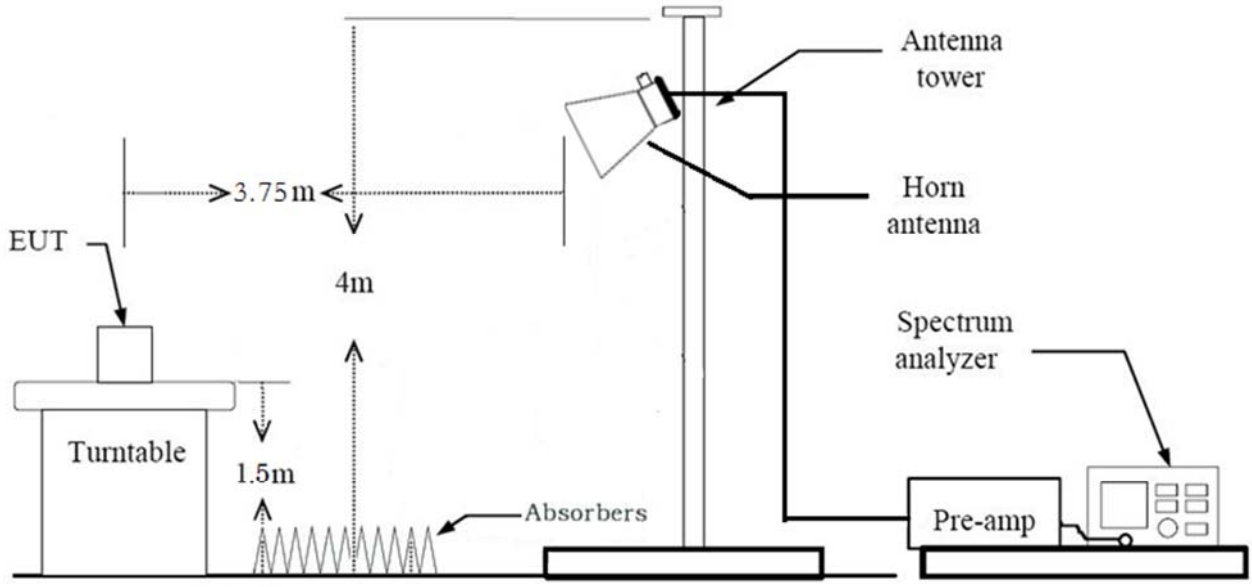
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

ANSI C63.10:2013

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

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

. Spectrum setting:

- Peak.

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

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

1. RBW = 1 MHz
2. VBW
   2.1. If the EUT is configured to transmit with duty cycle ≥ 98 percent, set VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
   2.2. If the EUT duty cycle is < 98 percent, set VBW ≥ 1/T, where T is the minimum transmission duration.
3. The analyzer is set to linear detector mode.
4. Detector = Peak.
5. Sweep time = auto.
6. Trace mode = max hold.
7. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimym number of traces by a factor of 1/x, where x is the duty cycle.

Note :

1. We used the Method VB for 802.11a/n_HT20, n_HT40, ac_VHT20, 40, 80, 160 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, 160
3. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor(reference distance : 3 m).
4. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Mode	Worst Data rate (Mbps)	T_{on} (ms)	T_{total} (ms)	Duty Cycle (%)	VBW(1/T) (Hz)	The actual setting value of VBW (Hz)
a	**6**	**2.064**	**0.108**	**95.028**	**484**	**1000**
n_HT20	**MCS 0**	**1.921**	**0.099**	**95.099**	**521**	**1000**
ac_VHT20	**MCS 0**	**1.928**	**0.029**	**98.518**	**519**	**1000**
n_HT40	**MCS 0**	**0.945**	**0.099**	**90.517**	**1058**	**1000**
ac_VHT40	**MCS 0**	**0.952**	**0.029**	**97.044**	**1050**	**1000**
ac_VHT80	**MCS 0**	**0.461**	**0.029**	**94.082**	**2169**	**1000**
ac_VHT160	**MCS 0**	**0.253**	**0.029**	**89.716**	**3953**	**1000**

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

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

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
6. The test results for below 30 MHz is correlated to an open site.
   The result on OATS is about 2 dB higher than semi-anechoic chamber (10 m chamber)

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

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

Notes:

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

Above 1 GHz

[MIMO]

Band :	UNII 1
Operation Mode:	802.11 a
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	66.14	4.47	V	70.61	73.98	3.37	PK
10360	42.43	4.47	V	46.90	53.98	7.08	AV
15540	58.63	1.80	V	60.43	73.98	13.55	PK
15540	39.99	1.80	V	41.79	53.98	12.19	AV
10360	65.22	4.47	H	69.69	73.98	4.29	PK
10360	41.28	4.47	H	45.75	53.98	8.23	AV
15540	57.56	1.80	H	59.36	73.98	14.62	PK
15540	38.84	1.80	H	40.64	53.98	13.34	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11 a
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	67.72	3.22	V	70.94	73.98	3.04	PK
10400	44.85	3.22	V	48.07	53.98	5.91	AV
15600	57.22	1.06	V	58.28	73.98	15.70	PK
15600	39.24	1.06	V	40.30	53.98	13.68	AV
10400	66.81	3.22	H	70.03	73.98	3.95	PK
10400	43.81	3.22	H	47.03	53.98	6.95	AV
15600	56.88	1.06	H	57.94	73.98	16.04	PK
15600	38.29	1.06	H	39.35	53.98	14.63	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11 a
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	66.35	3.53	V	69.88	73.98	4.10	PK
10480	45.76	3.53	V	49.29	53.98	4.69	AV
15720	58.26	1.54	V	59.80	73.98	14.18	PK
15720	38.91	1.54	V	40.45	53.98	13.53	AV
10480	65.59	3.53	H	69.12	73.98	4.86	PK
10480	44.81	3.53	H	48.34	53.98	5.64	AV
15720	57.81	1.54	H	59.35	73.98	14.63	PK
15720	37.86	1.54	H	39.40	53.98	14.58	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11 n_HT20
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	65.63	4.47	V	70.10	73.98	3.88	PK
10360	41.76	4.47	V	46.23	53.98	7.75	AV
15540	59.19	1.80	V	60.99	73.98	12.99	PK
15540	39.36	1.80	V	41.16	53.98	12.82	AV
10360	64.85	4.47	H	69.32	73.98	4.66	PK
10360	38.69	4.47	H	43.16	53.98	10.82	AV
15540	58.66	1.80	H	60.46	73.98	13.52	PK
15540	38.69	1.80	H	40.49	53.98	13.49	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11 n_HT20
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	67.21	3.22	V	70.43	73.98	3.55	PK
10400	42.61	3.22	V	45.83	53.98	8.15	AV
15600	57.01	1.06	V	58.07	73.98	15.91	PK
15600	38.63	1.06	V	39.69	53.98	14.29	AV
10400	68.66	3.22	H	71.88	73.98	2.10	PK
10400	41.28	3.22	H	44.50	53.98	9.48	AV
15600	56.54	1.06	H	57.60	73.98	16.38	PK
15600	37.55	1.06	H	38.61	53.98	15.37	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11 n_HT20
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	67.19	3.53	V	70.72	73.98	3.26	PK
10480	44.69	3.53	V	48.22	53.98	5.76	AV
15720	56.85	1.54	V	58.39	73.98	15.59	PK
15720	38.60	1.54	V	40.14	53.98	13.84	AV
10480	66.81	3.53	H	70.34	73.98	3.64	PK
10480	43.59	3.53	H	47.12	53.98	6.86	AV
15720	55.92	1.54	H	57.46	73.98	16.52	PK
15720	37.58	1.54	H	39.12	53.98	14.86	AV

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

Notes:

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

Band :	UNII 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	66.31	4.47	V	70.78	73.98	3.20	PK
10360	42.88	4.47	V	47.35	53.98	6.63	AV
15540	59.64	1.80	V	61.44	73.98	12.54	PK
15540	39.72	1.80	V	41.52	53.98	12.46	AV
10360	65.26	4.47	H	69.73	73.98	4.25	PK
10360	41.98	4.47	H	46.45	53.98	7.53	AV
15540	58.76	1.80	H	60.56	73.98	13.42	PK
15540	38.91	1.80	H	40.71	53.98	13.27	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 (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	66.94	3.22	V	70.16	73.98	3.82	PK
10400	43.34	3.22	V	46.56	53.98	7.42	AV
15600	58.13	1.06	V	59.19	73.98	14.79	PK
15600	38.76	1.06	V	39.82	53.98	14.16	AV
10400	65.84	3.22	H	69.06	73.98	4.92	PK
10400	42.57	3.22	H	45.79	53.98	8.19	AV
15600	57.39	1.06	H	58.45	73.98	15.53	PK
15600	37.55	1.06	H	38.61	53.98	15.37	AV

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

Notes:

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

Band :	UNII 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	67.09	3.53	V	70.62	73.98	3.36	PK
10480	44.07	3.53	V	47.60	53.98	6.38	AV
15720	57.07	1.54	V	58.61	73.98	15.37	PK
15720	38.78	1.54	V	40.32	53.98	13.66	AV
10480	66.81	3.53	H	70.34	73.98	3.64	PK
10480	43.59	3.53	H	47.12	53.98	6.86	AV
15720	56.47	1.54	H	58.01	73.98	15.97	PK
15720	37.95	1.54	H	39.49	53.98	14.49	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11n_HT40
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	62.12	2.88	V	65.00	68.20	3.20	PK
15570	51.06	1.57	V	52.63	73.98	21.35	PK
15570	35.11	1.57	V	36.68	53.98	17.30	AV
10380	61.58	2.88	H	64.46	68.20	3.74	PK
15570	50.69	1.57	H	52.26	73.98	21.72	PK
15570	34.84	1.57	H	36.41	53.98	17.57	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 802.11n_HT40. Worst case is MCS0 in 802.11n_HT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 1
Operation Mode:	802.11n_HT40
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	63.98	3.56	V	67.54	73.98	6.44	PK
10460	41.35	3.56	V	44.91	53.98	9.07	AV
15690	47.37	1.38	V	48.75	73.98	25.23	PK
15690	34.33	1.38	V	35.71	53.98	18.27	AV
10460	62.84	3.56	H	66.40	73.98	7.58	PK
10460	40.28	3.56	H	43.84	53.98	10.14	AV
15690	46.80	1.38	H	48.18	73.98	25.80	PK
15690	33.56	1.38	H	34.94	53.98	19.04	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)

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	61.16	2.88	V	64.04	68.20	4.16	PK
15570	50.80	1.57	V	52.37	73.98	21.61	PK
15570	35.16	1.57	V	36.73	53.98	17.25	AV
10380	60.28	2.88	H	63.16	68.20	5.04	PK
15570	49.55	1.57	H	51.12	73.98	22.86	PK
15570	34.52	1.57	H	36.09	53.98	17.89	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11ac_VHT40
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	63.57	3.56	V	67.13	73.98	6.85	PK
10460	41.66	3.56	V	45.22	53.98	8.76	AV
15690	47.38	1.38	V	48.76	73.98	25.22	PK
15690	34.26	1.38	V	35.64	53.98	18.34	AV
10460	62.55	3.56	H	66.11	73.98	7.87	PK
10460	40.26	3.56	H	43.82	53.98	10.16	AV
15690	46.89	1.38	H	48.27	73.98	25.71	PK
15690	34.09	1.38	H	35.47	53.98	18.51	AV

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

Notes:

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

Band :	UNII 1
Operation Mode:	802.11ac_VHT80
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	55.32	2.64	V	57.96	68.20	10.24	PK
15630	48.68	1.84	V	50.52	73.98	23.46	PK
15630	35.63	1.84	V	37.47	53.98	16.51	AV
10420	54.29	2.64	H	56.93	68.20	11.27	PK
15630	47.55	1.84	H	49.39	73.98	24.59	PK
15630	34.86	1.84	H	36.70	53.98	17.28	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 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2A
Operation Mode:	802.11 a
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	68.00	2.35	V	70.35	73.98	3.63	PK
10520	47.89	2.35	V	50.24	53.98	3.74	AV
15780	56.67	2.07	V	58.74	73.98	15.24	PK
15780	36.58	2.07	V	38.65	53.98	15.33	AV
10520	67.41	2.35	H	69.76	73.98	4.22	PK
10520	46.81	2.35	H	49.16	53.98	4.82	AV
15780	55.80	2.07	H	57.87	73.98	16.11	PK
15780	35.29	2.07	H	37.36	53.98	16.62	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	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	66.70	3.16	V	69.86	73.98	4.12	PK
10600	47.37	3.16	V	50.53	53.98	3.45	AV
15900	53.49	1.23	V	54.72	73.98	19.26	PK
15900	34.04	1.23	V	35.27	53.98	18.71	AV
10600	65.18	3.16	H	68.34	73.98	5.64	PK
10600	46.83	3.16	H	49.99	53.98	3.99	AV
15900	52.69	1.23	H	53.92	73.98	20.06	PK
15900	33.78	1.23	H	35.01	53.98	18.97	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	65.64	3.07	V	68.71	73.98	5.27	PK
10640	47.23	3.07	V	50.30	53.98	3.68	AV
15960	56.70	2.06	V	58.76	73.98	15.22	PK
15960	35.11	2.06	V	37.17	53.98	16.81	AV
10640	64.82	3.07	H	67.89	73.98	6.09	PK
10640	46.81	3.07	H	49.88	53.98	4.10	AV
15960	55.80	2.06	H	57.86	73.98	16.12	PK
15960	34.91	2.06	H	36.97	53.98	17.01	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	67.81	2.35	V	70.16	73.98	3.82	PK
10520	44.52	2.35	V	46.87	53.98	7.11	AV
15780	56.94	2.07	V	59.01	73.98	14.97	PK
15780	35.25	2.07	V	37.32	53.98	16.66	AV
10520	66.89	2.35	H	69.24	73.98	4.74	PK
10520	43.52	2.35	H	45.87	53.98	8.11	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	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	65.23	3.16	V	68.39	73.98	5.59	PK
10600	45.09	3.16	V	48.25	53.98	5.73	AV
15900	53.20	1.23	V	54.43	73.98	19.55	PK
15900	33.88	1.23	V	35.11	53.98	18.87	AV
10600	64.55	3.16	H	67.71	73.98	6.27	PK
10600	44.86	3.16	H	48.02	53.98	5.96	AV
15900	52.55	1.23	H	53.78	73.98	20.20	PK
15900	32.96	1.23	H	34.19	53.98	19.79	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	66.61	3.07	V	69.68	73.98	4.30	PK
10640	46.45	3.07	V	49.52	53.98	4.46	AV
15960	57.49	2.06	V	59.55	73.98	14.43	PK
15960	35.22	2.06	V	37.28	53.98	16.70	AV
10640	65.89	3.07	H	68.96	73.98	5.02	PK
10640	45.83	3.07	H	48.90	53.98	5.08	AV
15960	56.88	2.06	H	58.94	73.98	15.04	PK
15960	34.29	2.06	H	36.35	53.98	17.63	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	63.78	2.35	V	66.13	73.98	7.85	PK
10520	41.60	2.35	V	43.95	53.98	10.03	AV
15780	56.79	2.07	V	58.86	73.98	15.12	PK
15780	35.33	2.07	V	37.40	53.98	16.58	AV
10520	62.55	2.35	H	64.90	73.98	9.08	PK
10520	40.51	2.35	H	42.86	53.98	11.12	AV
15780	55.79	2.07	H	57.86	73.98	16.12	PK
15780	34.12	2.07	H	36.19	53.98	17.79	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	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	67.17	3.16	V	70.33	73.98	3.65	PK
10600	45.90	3.16	V	49.06	53.98	4.92	AV
15900	55.07	1.23	V	56.30	73.98	17.68	PK
15900	33.88	1.23	V	35.11	53.98	18.87	AV
10600	66.82	3.16	H	69.98	73.98	4.00	PK
10600	44.81	3.16	H	47.97	53.98	6.01	AV
15900	54.79	1.23	H	56.02	73.98	17.96	PK
15900	32.81	1.23	H	34.04	53.98	19.94	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 (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	67.49	3.07	V	70.56	73.98	3.42	PK
10640	46.56	3.07	V	49.63	53.98	4.35	AV
15960	58.35	2.06	V	60.41	73.98	13.57	PK
15960	35.06	2.06	V	37.12	53.98	16.86	AV
10640	66.84	3.07	H	69.91	73.98	4.07	PK
10640	45.79	3.07	H	48.86	53.98	5.12	AV
15960	47.81	2.06	H	49.87	73.98	24.11	PK
15960	34.57	2.06	H	36.63	53.98	17.35	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_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	63.71	3.85	V	67.56	73.98	6.42	PK
10540	42.99	3.85	V	46.84	53.98	7.14	AV
15810	48.54	2.79	V	51.33	73.98	22.65	PK
15810	34.64	2.79	V	37.43	53.98	16.55	AV
10540	62.57	3.85	H	66.42	73.98	7.56	PK
10540	41.97	3.85	H	45.82	53.98	8.16	AV
15810	47.81	2.79	H	50.60	73.98	23.38	PK
15810	33.99	2.79	H	36.78	53.98	17.20	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11n_HT40
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	63.24	2.96	V	66.20	73.98	7.78	PK
10620	42.81	2.96	V	45.77	53.98	8.21	AV
15930	48.06	1.43	V	49.49	73.98	24.49	PK
15930	34.45	1.43	V	35.88	53.98	18.10	AV
10620	62.54	2.96	H	65.50	73.98	8.48	PK
10620	41.89	2.96	H	44.85	53.98	9.13	AV
15930	47.28	1.43	H	48.71	73.98	25.27	PK
15930	34.86	1.43	H	36.29	53.98	17.69	AV

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	63.75	3.85	V	67.60	73.98	6.38	PK
10540	43.59	3.85	V	47.44	53.98	6.54	AV
15810	48.29	2.79	V	51.08	73.98	22.90	PK
15810	34.78	2.79	V	37.57	53.98	16.41	AV
10540	62.49	3.85	H	66.34	73.98	7.64	PK
10540	42.69	3.85	H	46.54	53.98	7.44	AV
15810	47.22	2.79	H	50.01	73.98	23.97	PK
15810	34.29	2.79	H	37.08	53.98	16.90	AV

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

Notes:

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

Band :	UNII 2A
Operation Mode:	802.11ac_VHT40
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	62.77	2.96	V	65.73	73.98	8.25	PK
10620	43.22	2.96	V	46.18	53.98	7.80	AV
15930	47.82	1.43	V	49.25	73.98	24.73	PK
15930	34.54	1.43	V	35.97	53.98	18.01	AV
10620	61.87	2.96	H	64.83	73.98	9.15	PK
10620	42.22	2.96	H	45.18	53.98	8.80	AV
15930	46.80	1.43	H	48.23	73.98	25.75	PK
15930	34.08	1.43	H	35.51	53.98	18.47	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 802.11ac_VHT40. Worst case is MCS0 in 802.11ac_VHT40.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	57.07	2.79	V	59.86	68.20	8.34	PK
15870	46.69	2.47	V	49.16	73.98	24.82	PK
15870	34.04	2.47	V	36.51	53.98	17.47	AV
10580	56.52	2.79	H	59.31	68.20	8.89	PK
15870	45.29	2.47	H	47.76	73.98	26.22	PK
15870	33.98	2.47	H	36.45	53.98	17.53	AV

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 a
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	62.47	3.36	V	65.83	73.98	8.15	PK
11000	46.09	3.36	V	49.45	53.98	4.53	AV
16500	64.98	5.07	V	70.05	73.98	3.93	PK
16500	37.56	5.07	V	42.63	53.98	11.35	AV
11000	61.22	3.36	H	64.58	73.98	9.40	PK
11000	45.20	3.36	H	48.56	53.98	5.42	AV
16500	63.84	5.07	H	68.91	73.98	5.07	PK
16500	36.69	5.07	H	41.76	53.98	12.22	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 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2C
Operation Mode:	802.11 a
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	58.69	4.02	V	62.71	73.98	11.27	PK
11200	43.09	4.02	V	47.11	53.98	6.87	AV
16800	59.68	6.06	V	65.74	73.98	8.24	PK
16800	35.90	6.06	V	41.96	53.98	12.02	AV
11200	57.81	4.02	H	61.83	73.98	12.15	PK
11200	42.81	4.02	H	46.83	53.98	7.15	AV
16800	58.74	6.06	H	64.80	73.98	9.18	PK
16800	34.55	6.06	H	40.61	53.98	13.37	AV

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

Notes:

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

Band :	UNII 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	62.75	3.57	V	66.32	73.98	7.66	PK
11440	46.14	3.57	V	49.71	53.98	4.27	AV
17160	63.22	5.24	V	68.46	73.98	5.52	PK
17160	36.43	5.24	V	41.67	53.98	12.31	AV
11440	61.81	3.57	H	65.38	73.98	8.60	PK
11440	45.26	3.57	H	48.83	53.98	5.15	AV
17160	62.69	5.24	H	67.93	73.98	6.05	PK
17160	35.27	5.24	H	40.51	53.98	13.47	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)

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	61.05	3.36	V	64.41	73.98	9.57	PK
11000	43.51	3.36	V	46.87	53.98	7.11	AV
16500	65.88	5.07	V	70.95	73.98	3.03	PK
16500	36.07	5.07	V	41.14	53.98	12.84	AV
11000	60.86	3.36	H	64.22	73.98	9.76	PK
11000	42.94	3.36	H	46.30	53.98	7.68	AV
16500	64.79	5.07	H	69.86	73.98	4.12	PK
16500	35.69	5.07	H	40.76	53.98	13.22	AV

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
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	60.55	4.02	V	64.57	73.98	9.41	PK
11200	43.33	4.02	V	47.35	53.98	6.63	AV
16800	61.75	6.06	V	67.81	73.98	6.17	PK
16800	35.98	6.06	V	42.04	53.98	11.94	AV
11200	59.67	4.02	H	63.69	73.98	10.29	PK
11200	42.79	4.02	H	46.81	53.98	7.17	AV
16800	60.99	6.06	H	67.05	73.98	6.93	PK
16800	34.55	6.06	H	40.61	53.98	13.37	AV

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
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	64.45	3.57	V	68.02	73.98	5.96	PK
11440	45.30	3.57	V	48.87	53.98	5.11	AV
17160	64.03	5.24	V	69.27	73.98	4.71	PK
17160	36.58	5.24	V	41.82	53.98	12.16	AV
11440	63.91	3.57	H	67.48	73.98	6.50	PK
11440	44.53	3.57	H	48.10	53.98	5.88	AV
17160	63.19	5.24	H	68.43	73.98	5.55	PK
17160	35.49	5.24	H	40.73	53.98	13.25	AV

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

Notes:

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

Band :	UNII 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	62.27	3.36	V	65.63	73.98	8.35	PK
11000	43.90	3.36	V	47.26	53.98	6.72	AV
16500	64.95	5.07	V	70.02	73.98	3.96	PK
16500	36.07	5.07	V	41.14	53.98	12.84	AV
11000	61.82	3.36	H	65.18	73.98	8.80	PK
11000	42.57	3.36	H	45.93	53.98	8.05	AV
16500	63.79	5.07	H	68.86	73.98	5.12	PK
16500	35.67	5.07	H	40.74	53.98	13.24	AV

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
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	61.41	4.02	V	65.43	73.98	8.55	PK
11200	43.23	4.02	V	47.25	53.98	6.73	AV
16800	61.98	6.06	V	68.04	73.98	5.94	PK
16800	35.88	6.06	V	41.94	53.98	12.04	AV
11200	60.58	4.02	H	64.60	73.98	9.38	PK
11200	42.27	4.02	H	46.29	53.98	7.69	AV
16800	60.99	6.06	H	67.05	73.98	6.93	PK
16800	34.84	6.06	H	40.90	53.98	13.08	AV

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
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	63.57	3.57	V	67.14	73.98	6.84	PK
11440	45.23	3.57	V	48.80	53.98	5.18	AV
17160	64.65	5.24	V	69.89	73.98	4.09	PK
17160	36.39	5.24	V	41.63	53.98	12.35	AV
11440	62.78	3.57	H	66.35	73.98	7.63	PK
11440	44.59	3.57	H	48.16	53.98	5.82	AV
17160	63.56	5.24	H	68.80	73.98	5.18	PK
17160	35.13	5.24	H	40.37	53.98	13.61	AV

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

Notes:

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

Band :	UNII 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	59.65	2.97	V	62.62	73.98	11.36	PK
11020	43.43	2.97	V	46.40	53.98	7.58	AV
16530	52.12	4.15	V	56.27	68.20	11.93	PK
11020	58.67	2.97	H	61.64	73.98	12.34	PK
11020	42.66	2.97	H	45.63	53.98	8.35	AV
16530	51.20	4.15	H	55.35	68.20	12.85	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	57.98	2.79	V	60.77	73.98	13.21	PK
11100	41.70	2.79	V	44.49	53.98	9.49	AV
16650	57.64	7.19	V	64.83	68.20	3.37	PK
11100	56.81	2.79	H	59.60	73.98	14.38	PK
11100	40.39	2.79	H	43.18	53.98	10.80	AV
16650	56.57	7.19	H	63.76	68.20	4.44	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11n_HT40
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	57.60	3.36	V	60.96	73.98	13.02	PK
11420	41.53	3.36	V	44.89	53.98	9.09	AV
17130	55.73	7.02	V	62.75	68.20	5.45	PK
11420	56.80	3.36	H	60.16	73.98	13.82	PK
11420	40.28	3.36	H	43.64	53.98	10.34	AV
17130	54.81	7.02	H	61.83	68.20	6.37	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	61.32	2.97	V	64.29	73.98	9.69	PK
11020	43.62	2.97	V	46.59	53.98	7.39	AV
16530	51.82	4.15	V	55.97	68.20	12.23	PK
11020	60.28	2.97	H	63.25	73.98	10.73	PK
11020	42.55	2.97	H	45.52	53.98	8.46	AV
16530	50.79	4.15	H	54.94	68.20	13.26	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	49.53	2.79	V	52.32	73.98	21.66	PK
11100	35.63	2.79	V	38.42	53.98	15.56	AV
16650	57.73	7.19	V	64.92	68.20	3.28	PK
11100	48.92	2.79	H	51.71	73.98	22.27	PK
11100	34.81	2.79	H	37.60	53.98	16.38	AV
16650	56.55	7.19	H	63.74	68.20	4.46	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	49.91	3.36	V	53.27	73.98	20.71	PK
11420	36.36	3.36	V	39.72	53.98	14.26	AV
17130	55.83	7.02	V	62.85	68.20	5.35	PK
11420	48.89	3.36	H	52.25	73.98	21.73	PK
11420	35.22	3.36	H	38.58	53.98	15.40	AV
17130	54.69	7.02	H	61.71	68.20	6.49	PK

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

Notes:

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

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
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	51.44	3.46	V	54.90	73.98	19.08	PK
11060	37.92	3.46	V	41.38	53.98	12.60	AV
16590	49.85	4.11	V	53.96	68.20	14.24	PK
11060	50.89	3.46	H	54.35	73.98	19.63	PK
11060	36.57	3.46	H	40.03	53.98	13.95	AV
16590	48.59	4.11	H	52.70	68.20	15.50	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.
9. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 2C
Operation Mode:	802.11ac_VHT80
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	53.89	3.41	V	57.30	73.98	16.68	PK
11380	39.73	3.41	V	43.14	53.98	10.84	AV
17070	47.28	5.78	V	53.06	68.20	15.14	PK
11380	52.94	3.41	H	56.35	73.98	17.63	PK
11380	38.57	3.41	H	41.98	53.98	12.00	AV
17070	46.84	5.78	H	52.62	68.20	15.58	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.
   10. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Distance Factor
5. We have done all data rate in 802.11ac_VHT80. Worst case is MCS0 in 802.11ac_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 3
Operation Mode:	802.11 a
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	55.16	2.87	V	58.03	73.98	15.95	PK
11490	38.55	2.87	V	41.42	53.98	12.56	AV
17235	57.81	7.44	V	65.25	73.98	8.74	PK
17235	34.50	7.44	V	41.94	53.98	12.05	AV
11490	56.86	2.51	H	59.37	73.98	14.61	PK
11490	39.68	2.51	H	42.19	53.98	11.79	AV
17235	58.61	7.44	H	66.05	73.98	7.94	PK
17235	35.18	7.44	H	42.62	53.98	11.37	AV

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

Notes:

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

Band :	UNII 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	53.57	2.48	V	56.05	73.98	17.93	PK
11570	37.59	2.48	V	40.07	53.98	13.91	AV
17355	55.11	7.86	V	62.97	68.20	5.24	PK
11570	54.51	2.48	H	56.99	73.98	16.99	PK
11570	38.18	2.48	H	40.66	53.98	13.32	AV
17355	56.49	7.86	H	64.35	68.20	3.86	PK

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11 a
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	56.88	3.24	V	60.12	73.98	13.86	PK
11650	40.27	3.24	V	43.51	53.98	10.47	AV
17475	57.56	8.14	V	65.70	73.98	8.29	PK
17475	34.91	8.14	V	43.05	53.98	10.94	AV
11650	57.38	3.24	H	60.62	73.98	13.36	PK
11650	41.13	3.24	H	44.37	53.98	9.61	AV
17475	58.10	8.14	H	66.24	73.98	7.75	PK
17475	35.63	8.14	H	43.77	53.98	10.22	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 802.11a. Worst case is 6 Mbps in 802.11a.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 3
Operation Mode:	802.11 n_HT20
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	59.81	2.87	V	62.68	73.98	11.30	PK
11490	40.59	2.87	V	43.46	53.98	10.52	AV
17235	58.22	7.44	V	65.66	73.98	8.33	PK
17235	34.51	7.44	V	41.95	53.98	12.04	AV
11490	60.15	2.51	H	62.66	73.98	11.32	PK
11490	41.05	2.51	H	43.56	53.98	10.42	AV
17235	59.02	7.44	H	66.46	73.98	7.53	PK
17235	35.17	7.44	H	42.61	53.98	11.38	AV

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11 n_HT20
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	55.19	2.48	V	57.67	73.98	16.31	PK
11570	37.94	2.48	V	40.42	53.98	13.56	AV
17355	58.49	7.86	V	66.35	73.98	7.64	PK
17355	35.91	7.86	V	43.77	53.98	10.22	AV
11570	56.57	2.48	H	59.05	73.98	14.93	PK
11570	38.52	2.48	H	41.00	53.98	12.98	AV
17355	59.05	7.86	H	66.91	73.98	7.08	PK
17355	36.13	7.86	H	43.99	53.98	10.00	AV

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

Notes:

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

Band :	UNII 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	58.66	3.24	V	61.90	73.98	12.08	PK
11650	40.74	3.24	V	43.98	53.98	10.00	AV
17475	57.17	8.14	V	65.31	73.98	8.68	PK
17475	34.57	8.14	V	42.71	53.98	11.28	AV
11650	59.82	3.24	H	63.06	73.98	10.92	PK
11650	41.58	3.24	H	44.82	53.98	9.16	AV
17475	58.07	8.14	H	66.21	73.98	7.78	PK
17475	35.90	8.14	H	44.04	53.98	9.95	AV

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

Notes:

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

Band :	UNII 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	59.81	2.87	V	62.68	73.98	11.30	PK
11490	40.56	2.87	V	43.43	53.98	10.55	AV
17235	59.79	7.44	V	67.23	73.98	6.76	PK
17235	34.57	7.44	V	42.01	53.98	11.98	AV
11490	60.41	2.51	H	62.92	73.98	11.06	PK
11490	41.24	2.51	H	43.75	53.98	10.23	AV
17235	60.68	7.44	H	68.12	73.98	5.87	PK
17235	35.55	7.44	H	42.99	53.98	11.00	AV

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
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	55.54	2.48	V	58.02	73.98	15.96	PK
11570	37.80	2.48	V	40.28	53.98	13.70	AV
17355	58.49	7.86	V	66.35	73.98	7.64	PK
17355	34.81	7.86	V	42.67	53.98	11.32	AV
11570	56.38	2.48	H	58.86	73.98	15.12	PK
11570	38.82	2.48	H	41.30	53.98	12.68	AV
17355	59.47	7.86	H	67.33	73.98	6.66	PK
17235	35.98	7.86	H	43.84	53.98	10.15	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_VHT20. Worst case is MCS0 in 802.11ac_VHT20.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

Band :	UNII 3
Operation Mode:	802.11 ac_VHT20
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	57.85	3.24	V	61.09	73.98	12.89	PK
11650	40.86	3.24	V	44.10	53.98	9.88	AV
17475	58.16	8.14	V	66.30	73.98	7.69	PK
17475	34.89	8.14	V	43.03	53.98	10.96	AV
11650	58.85	3.24	H	62.09	73.98	11.89	PK
11650	41.87	3.24	H	45.11	53.98	8.87	AV
17475	59.86	8.14	H	68.00	73.98	5.99	PK
17235	35.84	8.14	H	43.98	53.98	10.01	AV

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

Notes:

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

Band :	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	50.22	2.90	V	53.12	73.98	20.86	PK
11510	35.81	2.90	V	38.71	53.98	15.27	AV
17265	46.94	6.80	V	53.74	68.20	14.46	PK
11510	51.46	2.90	H	54.36	73.98	19.62	PK
11510	36.97	2.90	H	39.87	53.98	14.11	AV
17265	47.38	6.80	H	54.18	68.20	14.02	PK

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11n_HT40
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	52.88	3.72	V	56.60	73.98	17.38	PK
11590	36.67	3.72	V	40.39	53.98	13.59	AV
17385	46.46	7.21	V	53.67	68.20	14.54	PK
11590	53.21	3.72	H	56.93	73.98	17.05	PK
11590	37.19	3.72	H	40.91	53.98	13.07	AV
17385	47.86	7.21	H	55.07	68.20	13.14	PK

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11ac_VHT40
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	49.81	2.90	V	52.71	73.98	21.27	PK
11510	36.88	2.90	V	39.78	53.98	14.20	AV
17265	47.55	6.80	V	54.35	68.20	13.85	PK
11510	50.40	2.90	H	53.30	73.98	20.68	PK
11510	37.13	2.90	H	40.03	53.98	13.95	AV
17265	48.26	6.80	H	55.06	68.20	13.14	PK

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

Notes:

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

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

Frequency [MHz]	Reading dBuV	AN.+CL-Amp G.+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	50.29	3.72	V	54.01	73.98	19.97	PK
11590	36.57	3.72	V	40.29	53.98	13.69	AV
17385	47.22	7.21	V	54.43	68.20	13.78	PK
11590	51.74	3.72	H	55.46	73.98	18.52	PK
11590	37.14	3.72	H	40.86	53.98	13.12	AV
17385	48.68	7.21	H	55.89	68.20	12.32	PK

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

Notes:

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

Band :	UNII 3
Operation Mode:	802.11ac_VHT80
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	49.89	3.32	V	53.21	73.98	20.77	PK
11550	35.22	3.32	V	38.54	53.98	15.44	AV
17325	46.57	8.09	V	54.66	68.20	13.55	PK
11550	50.78	3.32	H	54.10	73.98	19.88	PK
11550	36.60	3.32	H	39.92	53.98	14.06	AV
17325	47.75	8.09	H	55.84	68.20	12.37	PK

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

Notes:

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

Operation Mode:	802.11ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5250 MHz
Channel No.	50 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
10500	49.20	2.46	V	51.66	68.20	16.54	PK
15750	47.92	3.18	V	51.10	73.98	22.88	PK
15750	34.69	3.18	V	37.87	53.98	16.11	AV
10500	48.24	2.46	H	50.70	68.20	17.50	PK
15750	46.59	3.18	H	49.77	73.98	24.21	PK
15750	33.21	3.18	H	36.39	53.98	17.59	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_VHT160. Worst case is MCS0 in 802.11ac_VHT160.
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)

Operation Mode:	802.11ac_VHT160
Transfer MCS Index:	0
Operating Frequency	5570 MHz
Channel No.	114 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
11140	50.40	3.21	V	53.61	73.98	20.37	PK
11140	37.24	3.21	V	40.45	53.98	13.53	AV
16710	47.07	5.97	V	53.04	68.20	15.16	PK
11140	49.24	3.21	H	52.45	73.98	21.53	PK
11140	36.57	3.21	H	39.78	53.98	14.20	AV
16710	46.28	5.97	H	52.25	68.20	15.95	PK

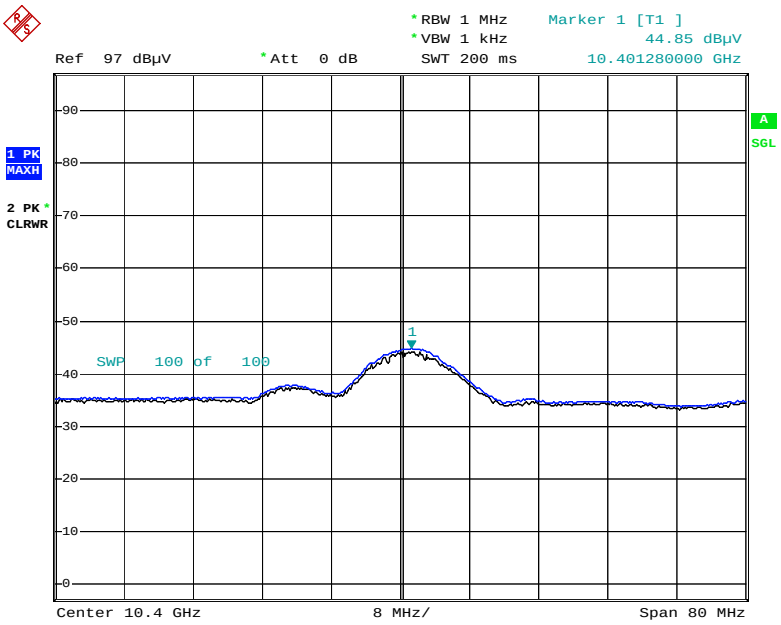
*AN. : Antenna Factor / CL : Cable Loss / Amp.G. : Amplifier Gain / D.F. : Distance Factor

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_VHT160. Worst case is MCS0 in 802.11ac_VHT160.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
7. Distance extrapolation factor = 20 log (test distance / specific distance) (dB)

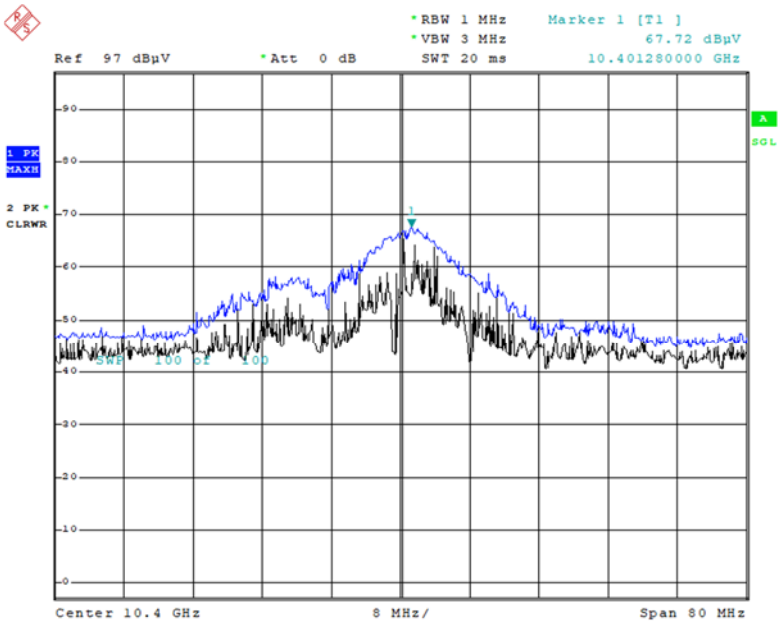
▣ RESULT PLOTS

Radiated Spurious Emissions plot – Average Reading (802.11a, Ch.40 2nd Harmonic, Y-V)



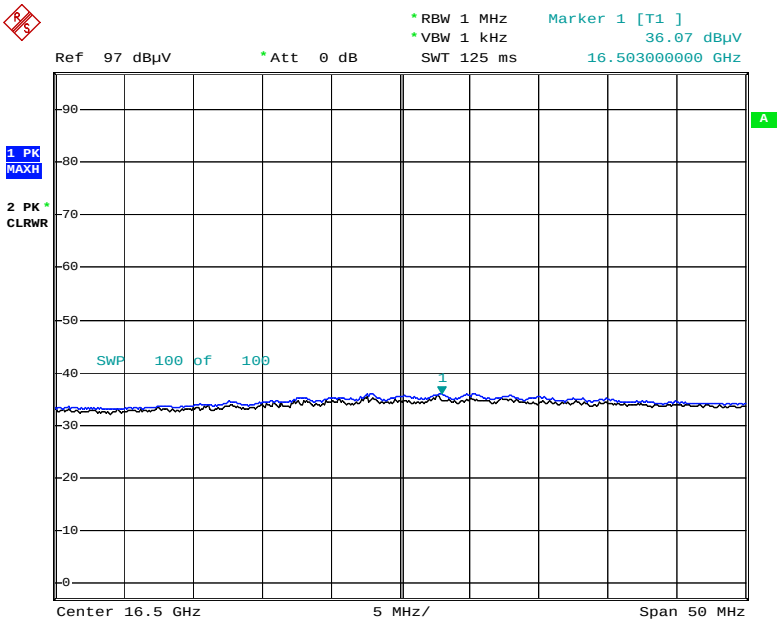
Date: 21.MAR.2018 20:32:24

Radiated Spurious Emissions plot – Peak Reading (802.11a, Ch.40 2nd Harmonic, Y-V)



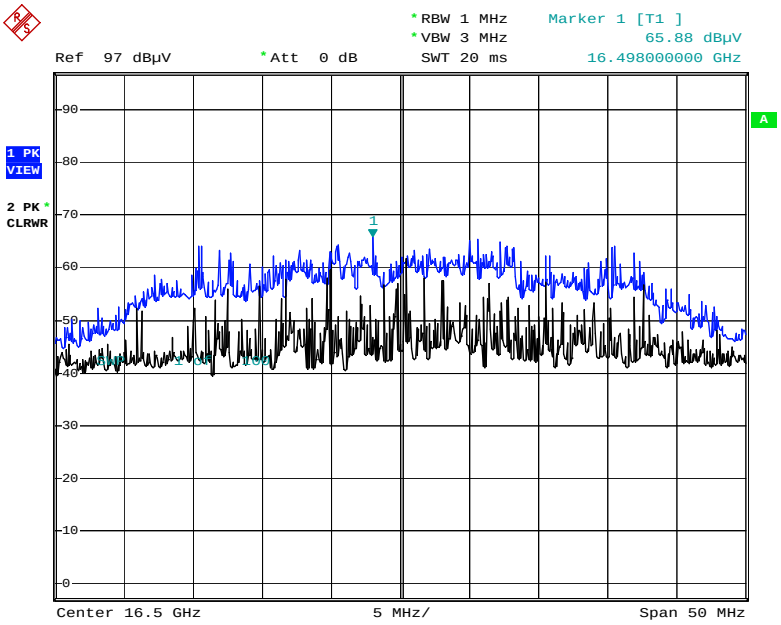
Date: 21.MAR.2018 20:30:51

Radiated Spurious Emissions plot – Average Reading (802.11n_HT20, Ch.100 3rd Harmonic, Y-V)



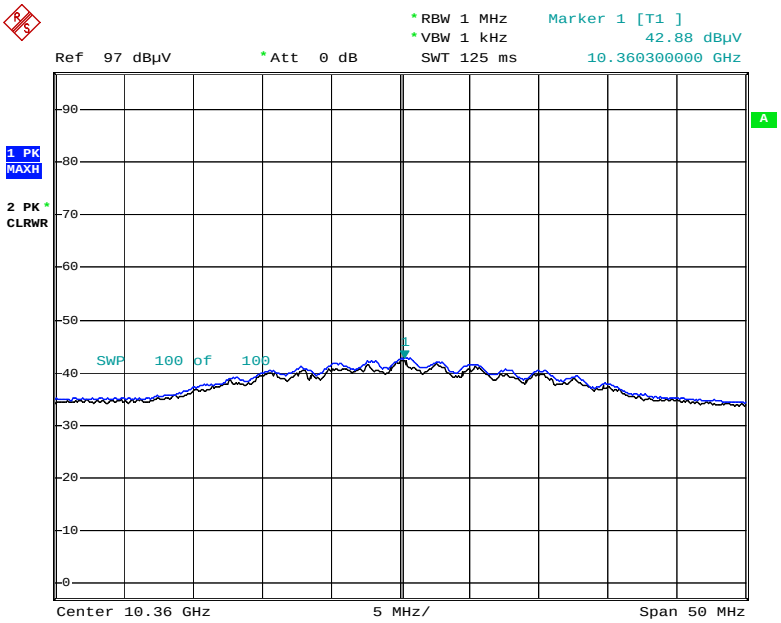
Date: 21.MAR.2018 20:38:59

Radiated Spurious Emissions plot – Peak Reading (802.11n_HT20, Ch.100 3rd Harmonic, Y-V)



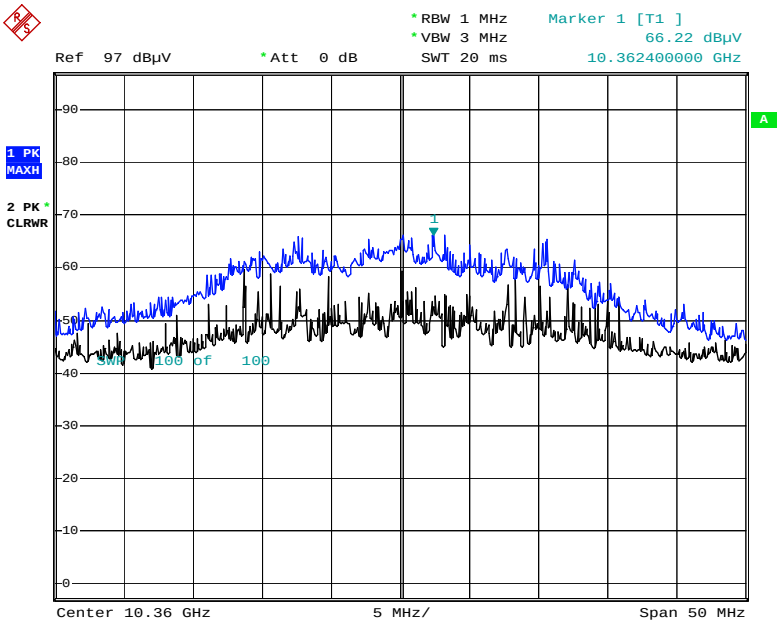
Date: 21.MAR.2018 20:38:01

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT20, Ch.36 2nd Harmonic, Y-V)



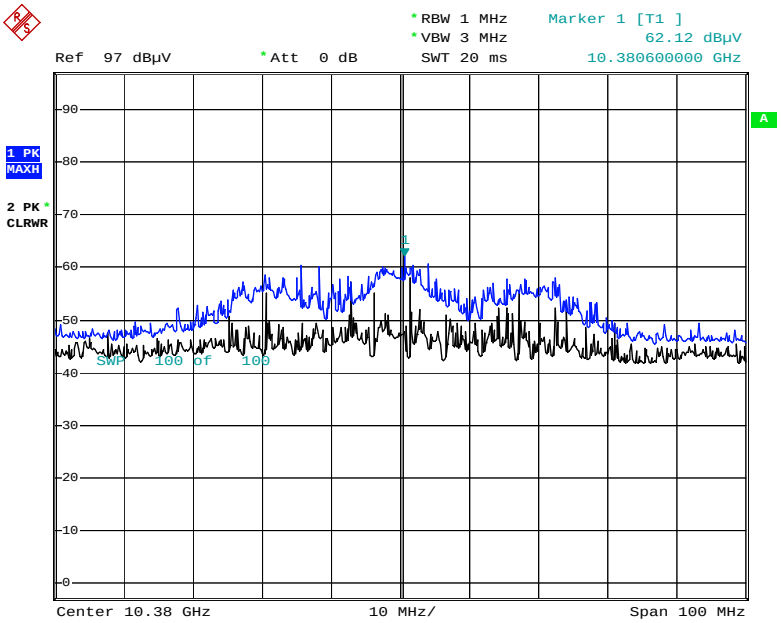
Date: 21.MAR.2018 20:48:46

Radiated Spurious Emissions plot – Peak Reading (802.11ac_VHT20, Ch.36 2nd Harmonic, Y-V)



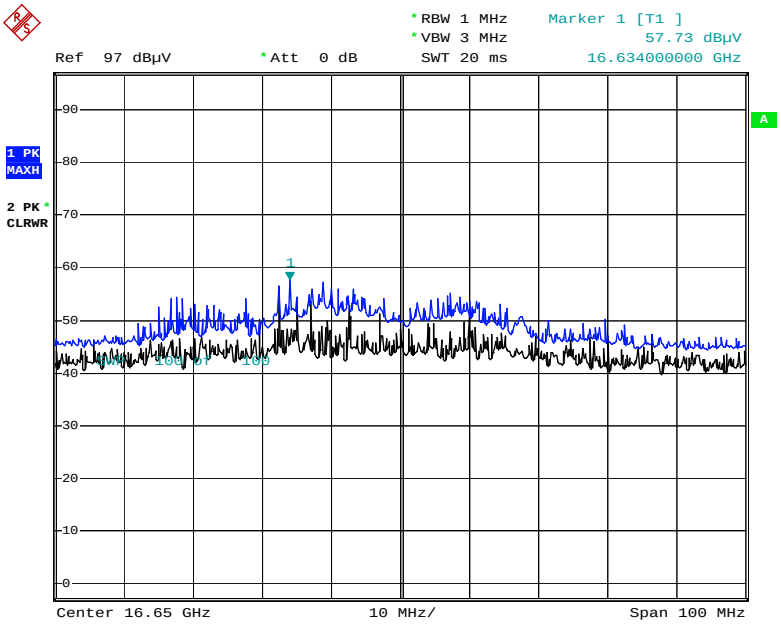
Date: 10.APR.2018 03:18:38

Radiated Spurious Emissions plot –Peak Reading (802.11n_HT40, Ch.38 2nd Harmonic, Y-V)



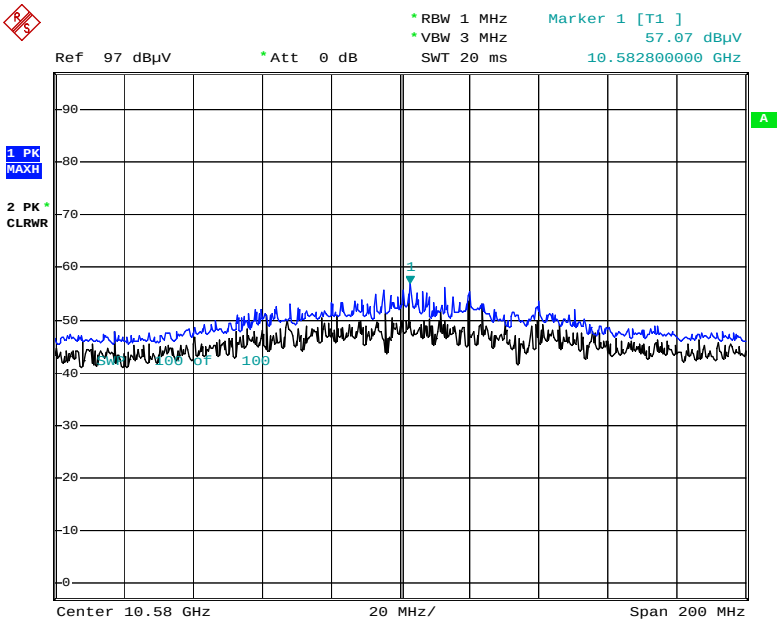
Date: 21.MAR.2018 20:51:05

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT40, Ch.110 3rd Harmonic, Y-V)



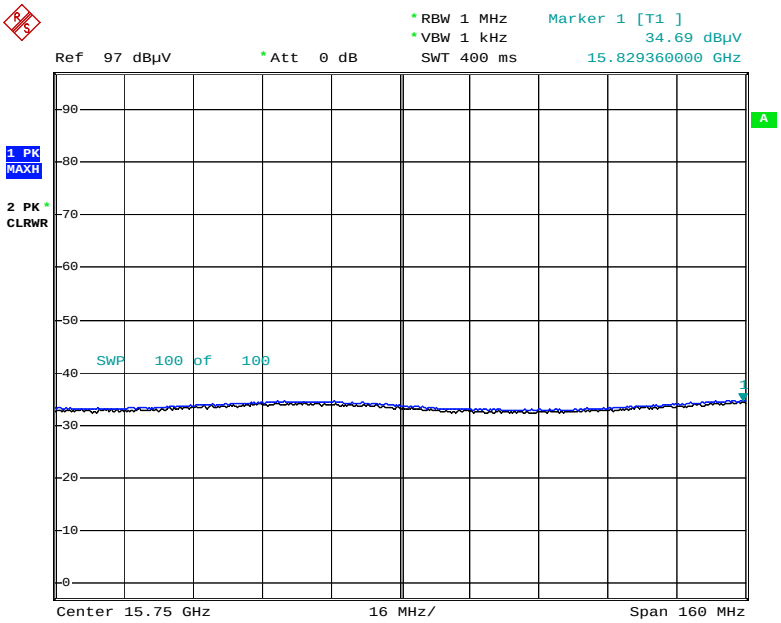
Date: 21.MAR.2018 20:53:08

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



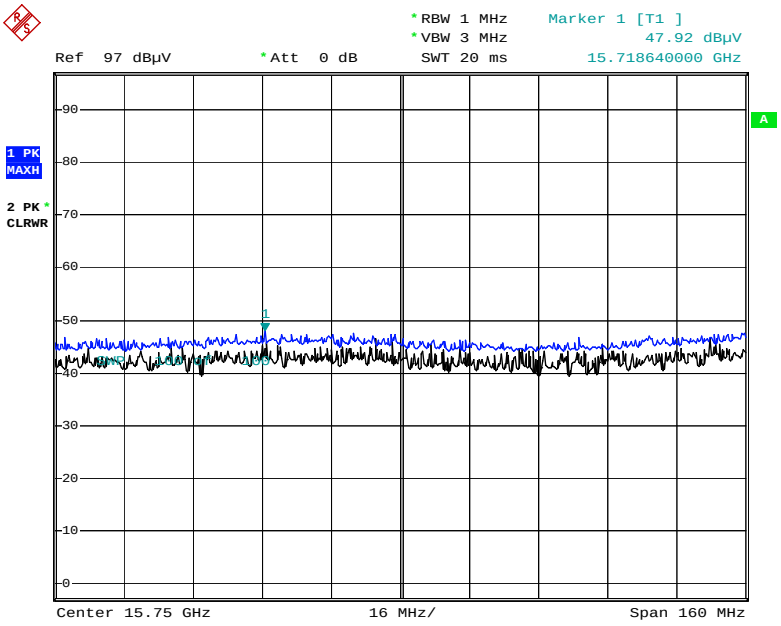
Note : Only the worst case plots for Radiated Spurious Emissions.

Radiated Spurious Emissions plot –Average Reading (802.11ac_VHT160, Ch.50 3rd Harmonic, V)



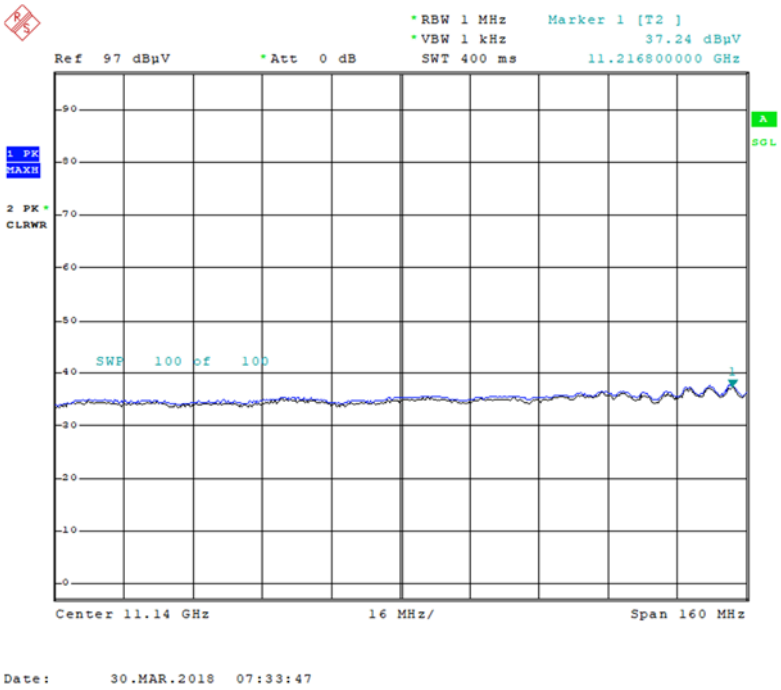
Date: 30.MAR.2018 07:25:18

Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT160, Ch.50 3rd Harmonic, V)

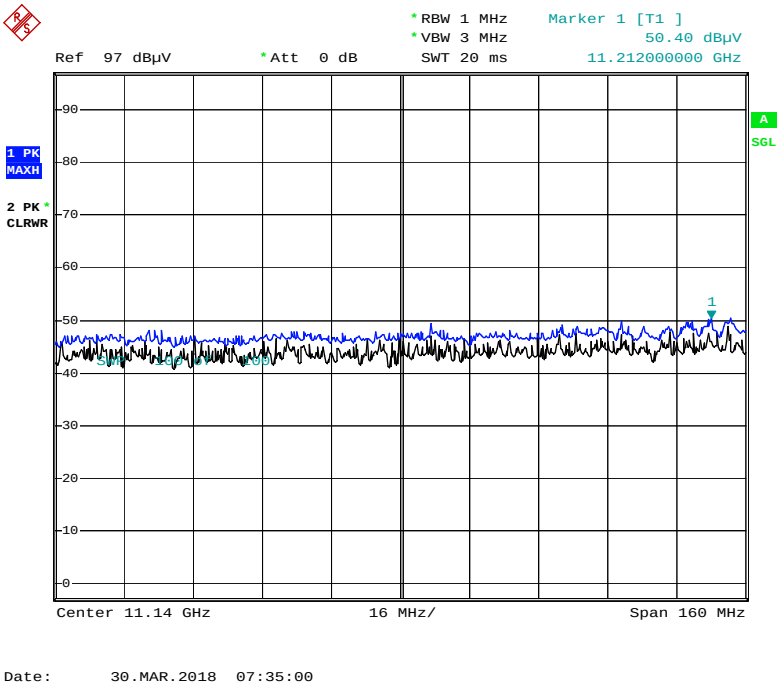


Date: 30.MAR.2018 07:22:35

Radiated Spurious Emissions plot – Average Reading (802.11ac_VHT160, Ch.114 2nd Harmonic, V)



Radiated Spurious Emissions plot –Peak Reading (802.11ac_VHT160, Ch.114 2nd Harmonic, V)



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	60.84	4.44	H	65.28	73.98	8.70	PK
5150	45.57	4.44	H	50.01	53.98	3.97	AV
5150	61.69	4.44	V	66.13	73.98	7.85	PK
5150	46.45	4.44	V	50.89	53.98	3.09	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	63.55	4.44	H	67.99	73.98	5.99	PK
5150	46.28	4.44	H	50.72	53.98	3.26	AV
5150	64.45	4.44	V	68.89	73.98	5.09	PK
5150	47.26	4.44	V	51.7	53.98	2.28	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	64.90	4.44	H	69.34	73.98	4.64	PK
5150	46.81	4.44	H	51.25	53.98	2.73	AV
5150	65.74	4.44	V	70.18	73.98	3.80	PK
5150	47.00	4.44	V	51.44	53.98	2.54	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.57	4.44	H	66.01	73.98	7.97	PK
5150	45.96	4.44	H	50.4	53.98	3.58	AV
5150	62.53	4.44	V	66.97	73.98	7.01	PK
5150	46.85	4.44	V	51.29	53.98	2.69	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	62.80	4.44	H	67.24	73.98	6.74	PK
5150	45.55	4.44	H	49.99	53.98	3.99	AV
5150	63.20	4.44	V	67.64	73.98	6.34	PK
5150	46.66	4.44	V	51.1	53.98	2.88	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	61.23	4.44	H	65.67	73.98	8.31	PK
5150	46.51	4.44	H	50.95	53.98	3.03	AV
5150	62.00	4.44	V	66.44	73.98	7.54	PK
5150	47.26	4.44	V	51.7	53.98	2.28	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	59.24	3.08	H	62.32	73.98	11.66	PK
5350	43.59	3.08	H	46.67	53.98	7.31	AV
5350	59.75	3.08	V	62.83	73.98	11.15	PK
5350	44.16	3.08	V	47.24	53.98	6.74	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	60.84	3.13	H	63.97	73.98	10.01	PK
5350	43.82	3.13	H	46.95	53.98	7.03	AV
5350	61.79	3.13	V	64.92	73.98	9.06	PK
5350	44.32	3.13	V	47.45	53.98	6.53	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	59.27	3.08	H	62.35	73.98	11.63	PK
5350	43.56	3.08	H	46.64	53.98	7.34	AV
5350	60.03	3.08	V	63.11	73.98	10.87	PK
5350	44.65	3.08	V	47.73	53.98	6.25	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	64.84	3.08	H	67.92	73.98	6.06	PK
5350	47.92	3.08	H	51	53.98	2.98	AV
5350	65.59	3.08	V	68.67	73.98	5.31	PK
5350	48.13	3.08	V	51.21	53.98	2.77	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	66.76	3.08	H	69.84	73.98	4.14	PK
5350	47.52	3.08	H	50.6	53.98	3.38	AV
5350	67.13	3.08	V	70.21	73.98	3.77	PK
5350	48.31	3.08	V	51.39	53.98	2.59	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	64.22	3.08	H	67.30	73.98	6.68	PK
5350	47.76	3.08	H	50.84	53.98	3.14	AV
5350	65.35	3.08	V	68.43	73.98	5.55	PK
5350	48.87	3.08	V	51.95	53.98	2.03	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	62.51	3.43	H	65.94	73.98	8.04	PK
5460	47.26	3.43	H	50.69	53.98	3.29	AV
5470	61.25	4.85	H	66.1	73.98	7.88	PK
5470	44.81	4.85	H	49.66	53.98	4.32	AV
5460	63.39	3.43	V	66.82	73.98	7.16	PK
5460	47.55	3.43	V	50.98	53.98	3.00	AV
5470	63.42	4.85	V	68.27	73.98	5.71	PK
5470	45.17	4.85	V	50.02	53.98	3.96	AV

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	57.81	3.43	H	61.24	73.98	12.74	PK
5460	44.59	3.43	H	48.02	53.98	5.96	AV
5470	64.92	4.85	H	69.77	73.98	4.21	PK
5470	43.55	4.85	H	48.4	53.98	5.58	AV
5460	58.12	3.43	V	61.55	73.98	12.43	PK
5460	45.62	3.43	V	49.05	53.98	4.93	AV
5470	65.84	4.85	V	70.69	73.98	3.29	PK
5470	44.10	4.85	V	48.95	53.98	5.03	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	58.64	3.43	H	62.07	73.98	11.91	PK
5460	45.55	3.43	H	48.98	53.98	5.00	AV
5470	64.58	4.85	H	69.43	73.98	4.55	PK
5470	43.28	4.85	H	48.13	53.98	5.85	AV
5460	59.16	3.43	V	62.59	73.98	11.39	PK
5460	46.41	3.43	V	49.84	53.98	4.14	AV
5470	65.45	4.85	V	70.3	73.98	3.68	PK
5470	44.56	4.85	V	49.41	53.98	4.57	AV

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	56.84	3.43	H	60.27	73.98	13.71	PK
5460	43.51	3.43	H	46.94	53.98	7.04	AV
5470	65.93	4.85	H	70.78	73.98	3.20	PK
5470	45.27	4.85	H	50.12	53.98	3.86	AV
5460	57.24	3.43	V	60.67	73.98	13.31	PK
5460	44.24	3.43	V	47.67	53.98	6.31	AV
5470	66.38	4.85	V	71.23	73.98	2.75	PK
5470	46.43	4.85	V	51.28	53.98	2.70	AV

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

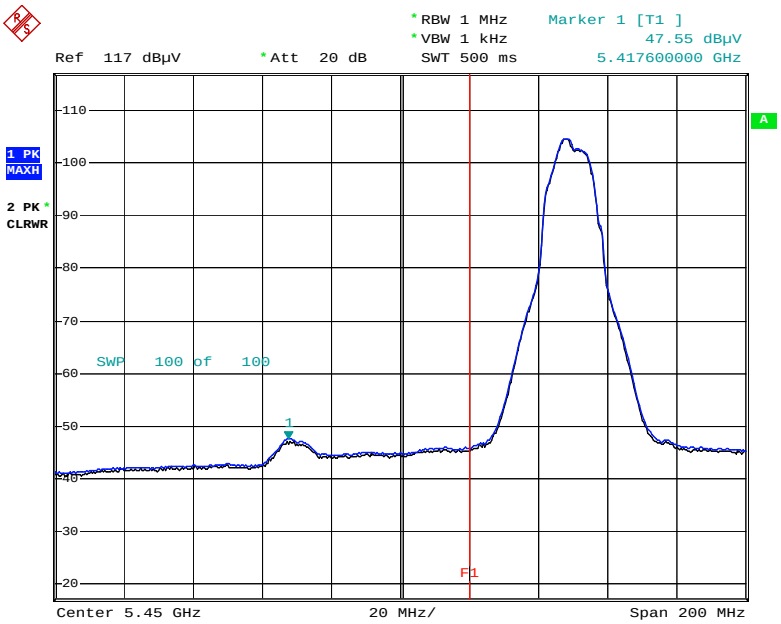
Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	56.18	3.43	H	59.61	73.98	14.37	PK
5460	43.86	3.43	H	47.29	53.98	6.69	AV
5470	65.84	4.85	H	70.69	73.98	3.29	PK
5470	44.76	4.85	H	49.61	53.98	4.37	AV
5460	57.01	3.43	V	60.44	73.98	13.54	PK
5460	44.64	3.43	V	48.07	53.98	5.91	AV
5470	66.68	4.85	V	71.53	73.98	2.45	PK
5470	45.74	4.85	V	50.59	53.98	3.39	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	59.86	3.43	H	63.29	73.98	10.69	PK
5460	44.50	3.43	H	47.93	53.98	6.05	AV
5470	64.52	4.85	H	69.37	73.98	4.61	PK
5470	44.81	4.85	H	49.66	53.98	4.32	AV
5460	60.49	3.43	V	63.92	73.98	10.06	PK
5460	45.00	3.43	V	48.43	53.98	5.55	AV
5470	65.06	4.85	V	69.91	73.98	4.07	PK
5470	45.97	4.85	V	50.82	53.98	3.16	AV

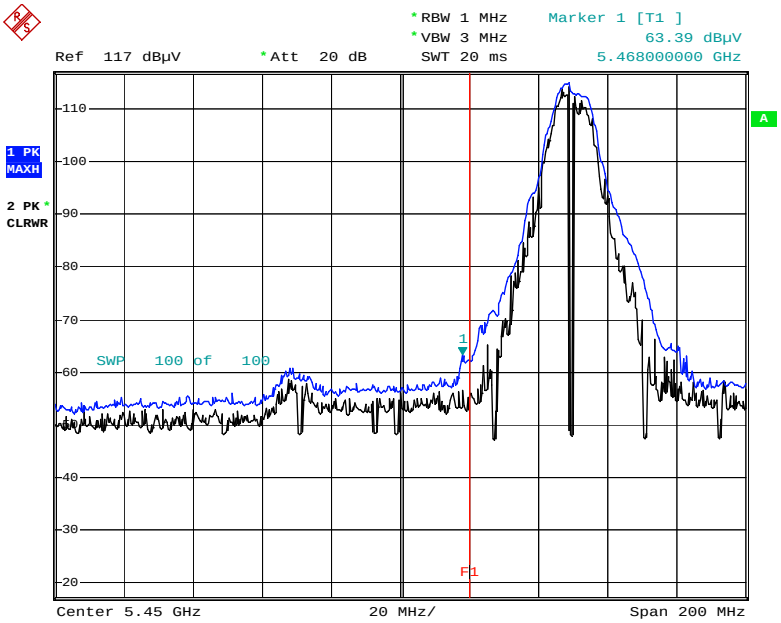
▣ RESULT PLOTS

Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.100, Y-V)



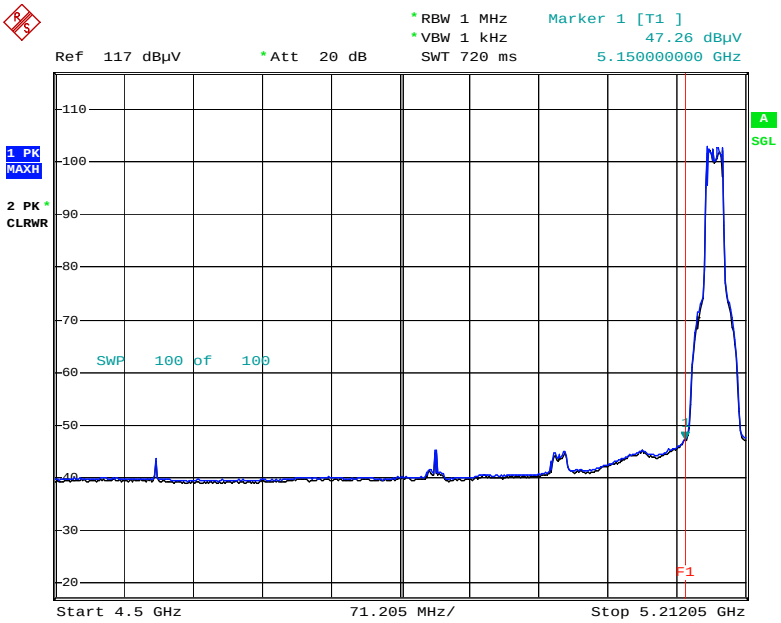
Date: 21.MAR.2018 21:26:04

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.100 Y-V)



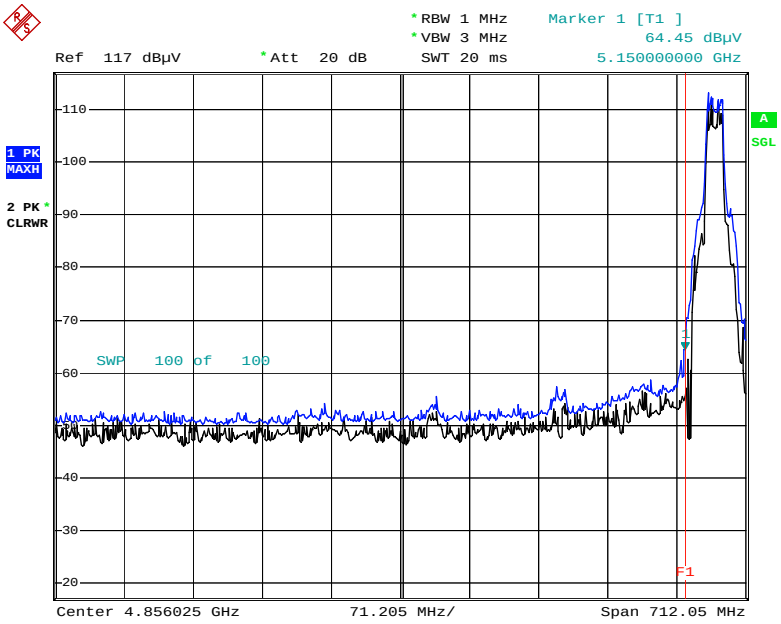
Date: 21.MAR.2018 21:27:03

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



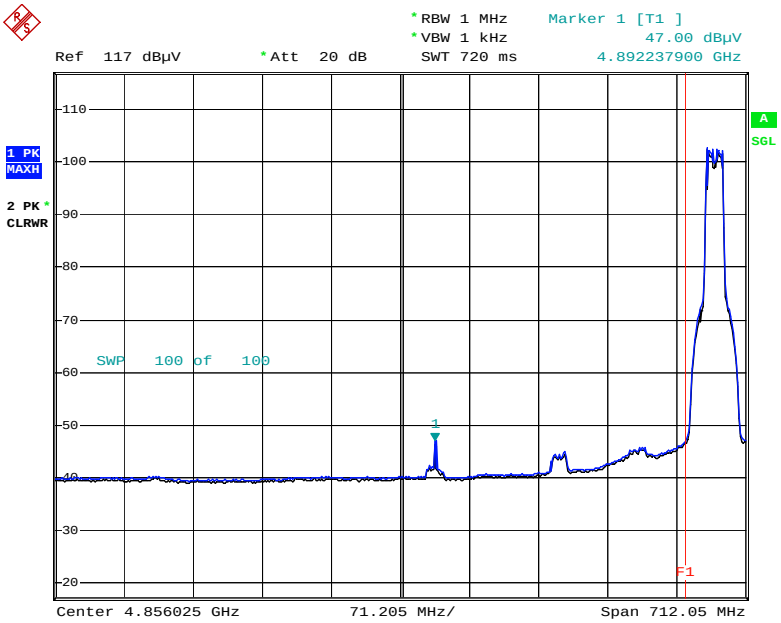
Date: 21.MAR.2018 21:31:25

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20, Ch.36, Y-V)



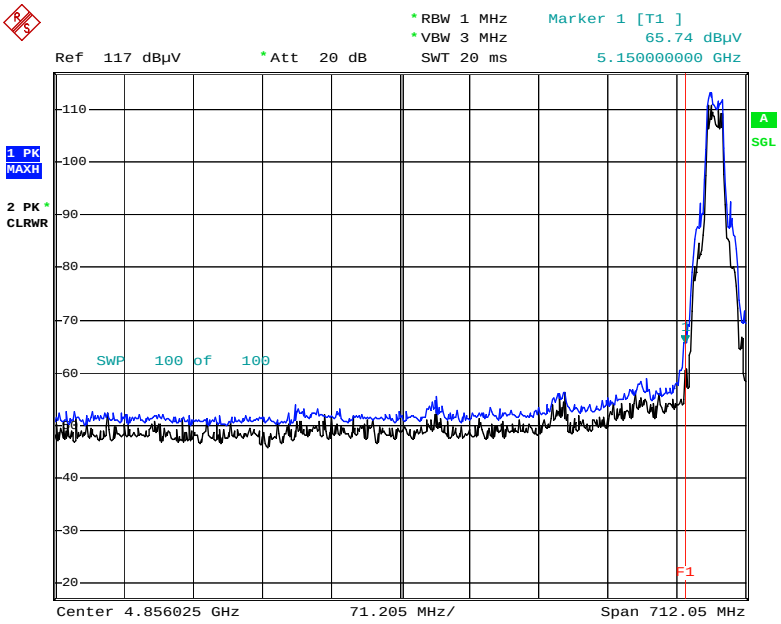
Date: 21.MAR.2018 21:34:19

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



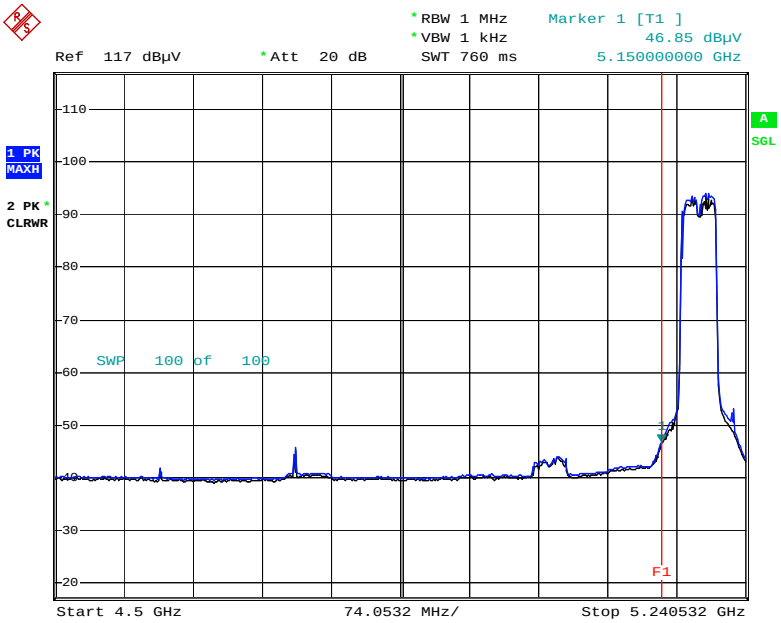
Date: 21.MAR.2018 21:40:19

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



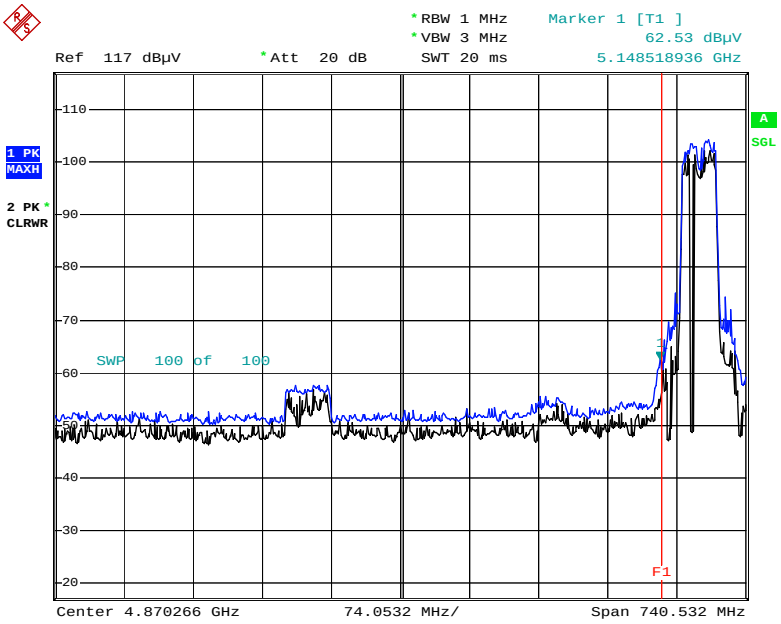
Date: 21.MAR.2018 21:41:08

Radiated Restricted Band Edges plot – Average Reading (802.11n_HT40, Ch.38, Y-V)



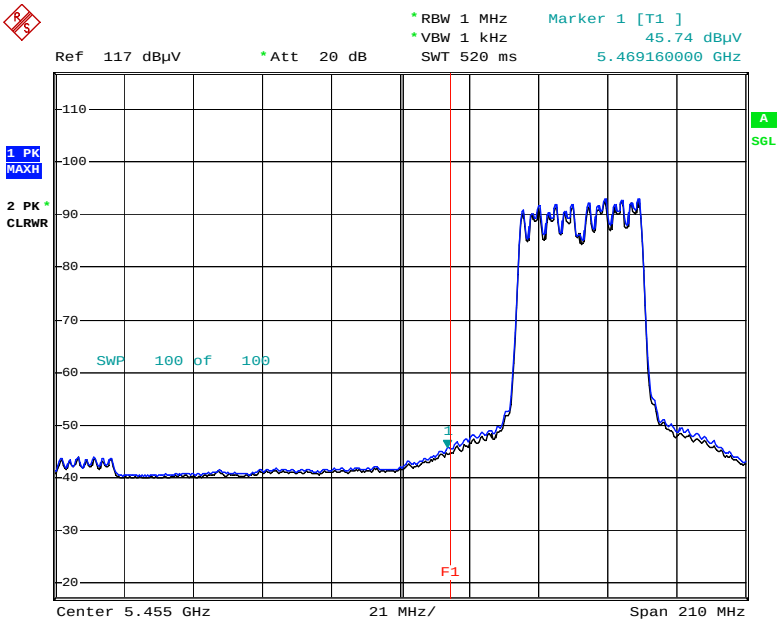
Date: 21.MAR.2018 21:44:04

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40, Ch.38, Y-V)



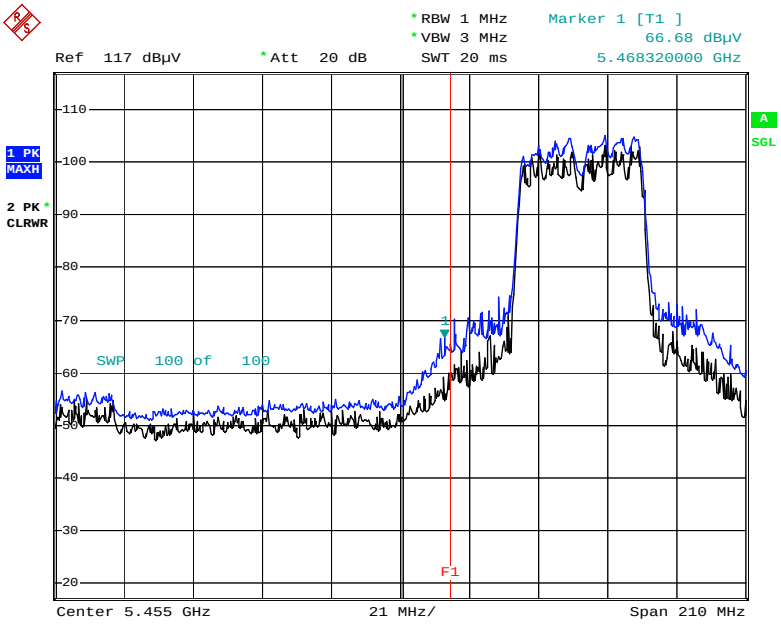
Date: 21.MAR.2018 21:45:22

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



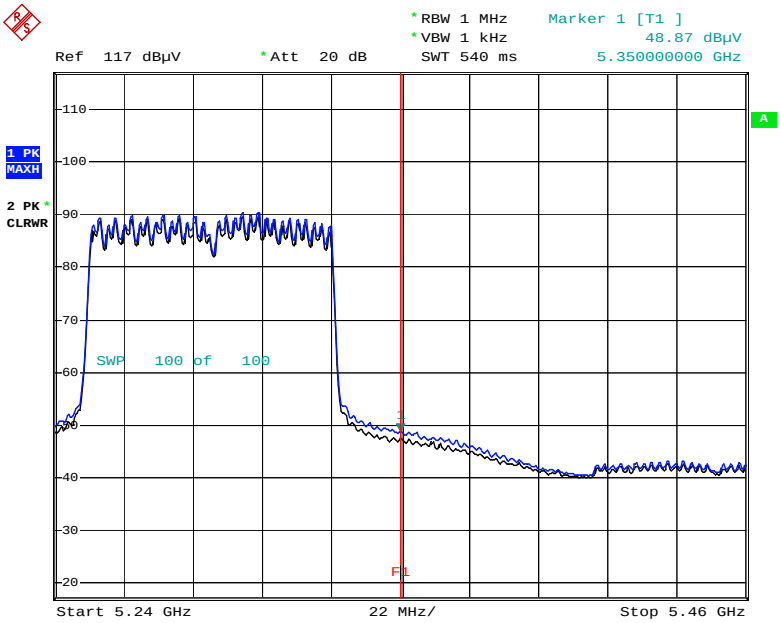
Date: 21.MAR.2018 21:49:36

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



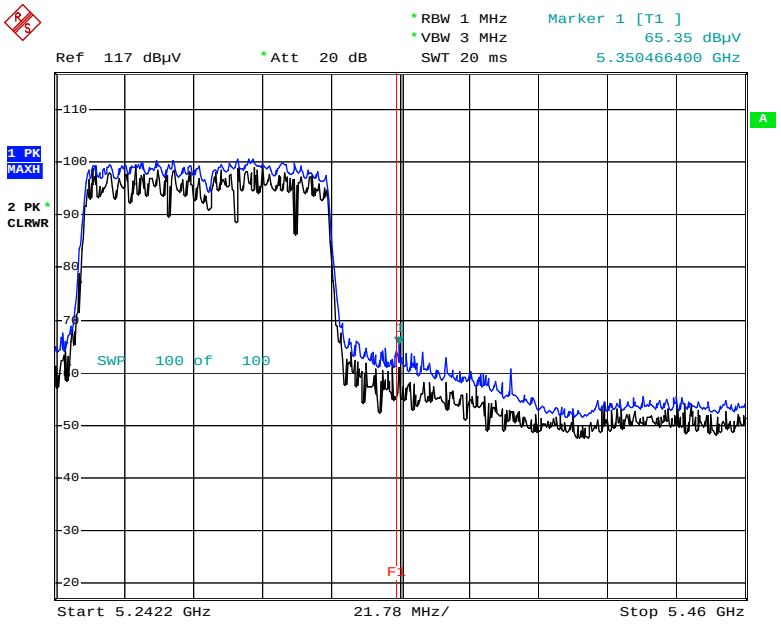
Date: 21.MAR.2018 21:52:20

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



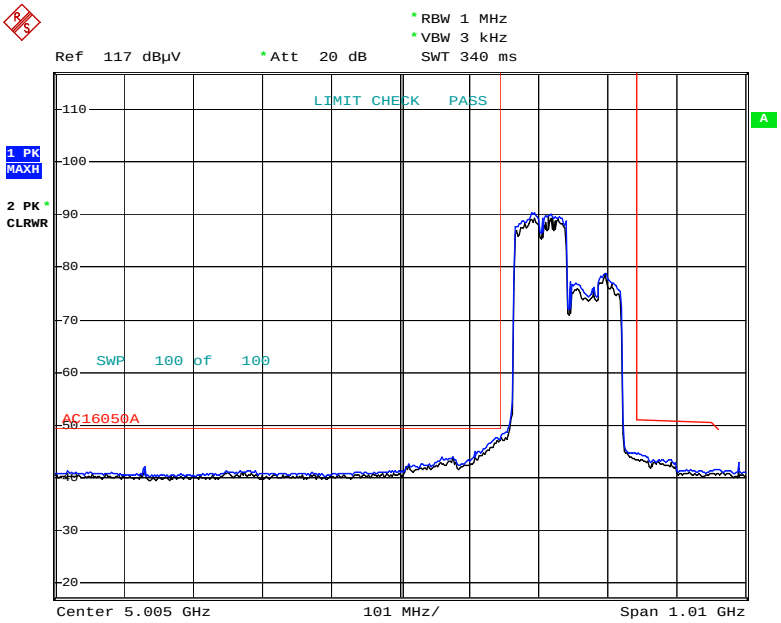
Date: 21.MAR.2018 21:20:07

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



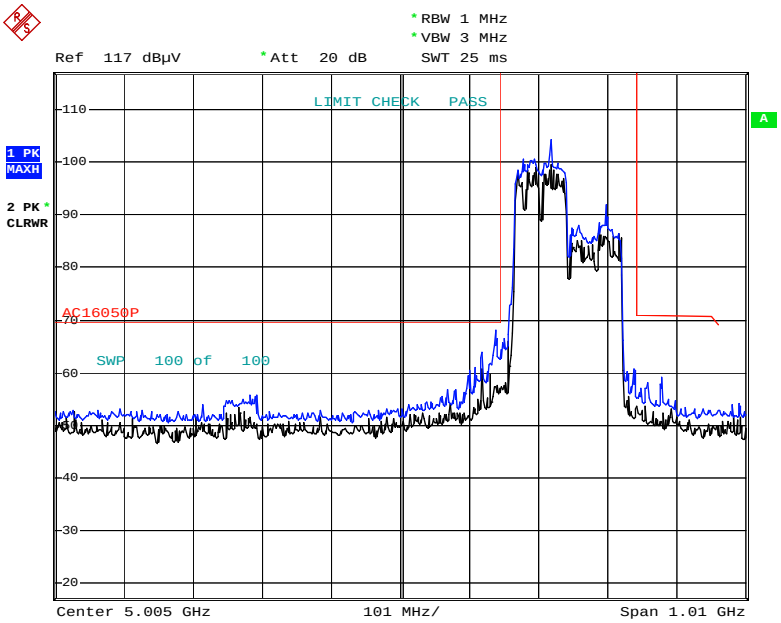
Date: 21.MAR.2018 21:21:46

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT160, Ch.50)



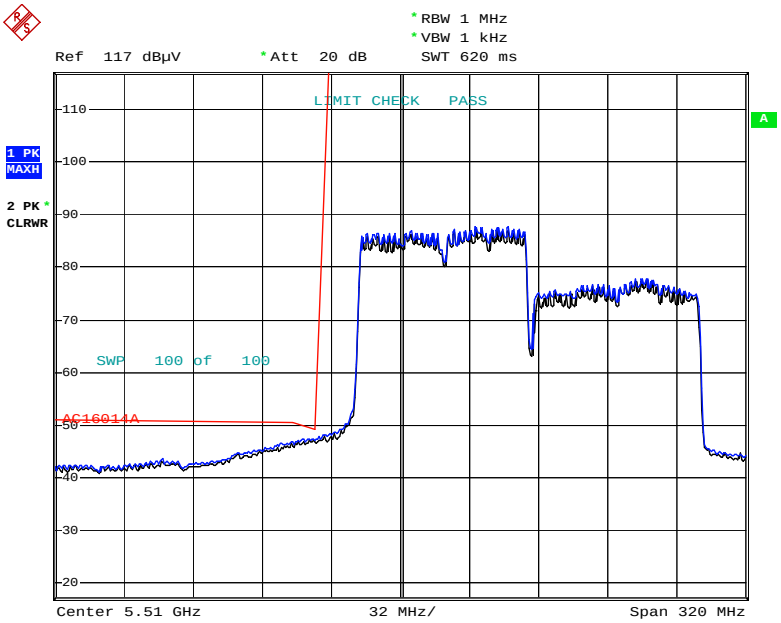
Date: 30.MAR.2018 03:59:29

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT160, Ch.50)



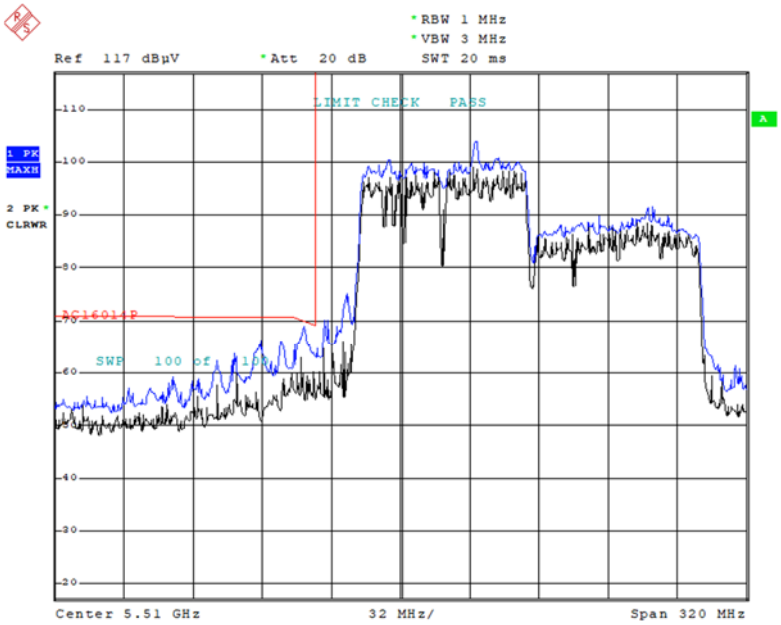
Date: 30.MAR.2018 04:00:22

Radiated Restricted Band Edges plot – Average Reading (802.11ac_VHT160, Ch.114)



Date: 30.MAR.2018 06:51:32

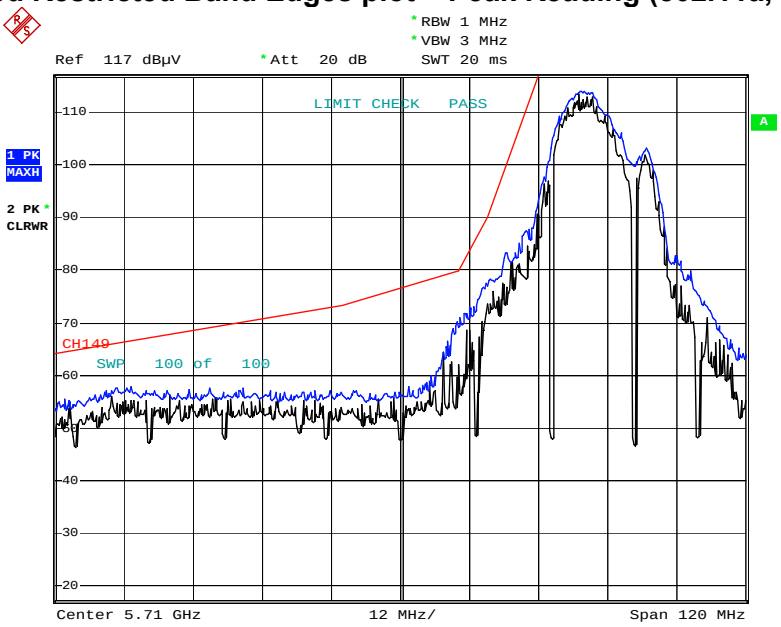
Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT160, Ch.114)



Date: 30.MAR.2018 06:48:37

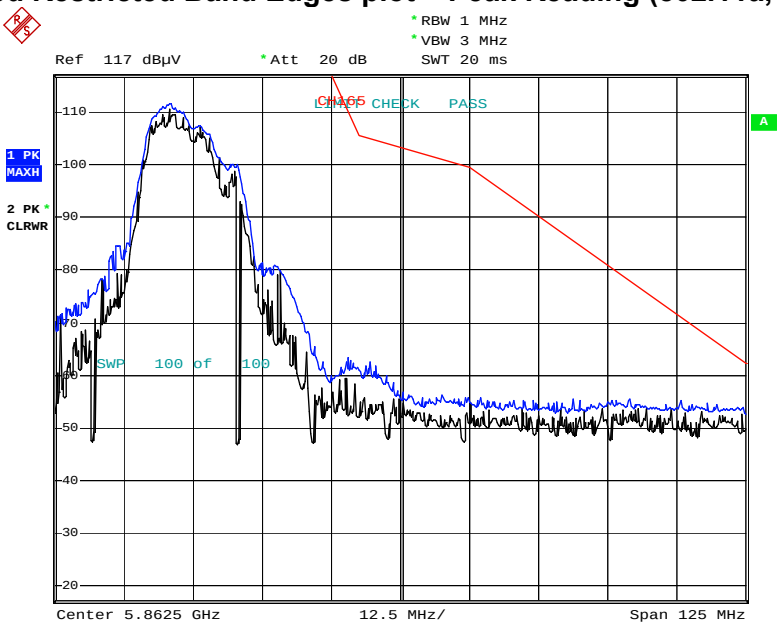
▣ RESULT PLOTS (UNII 3 – ch.165)

Radiated Restricted Band Edges plot – Peak Reading (802.11a, ch.149)



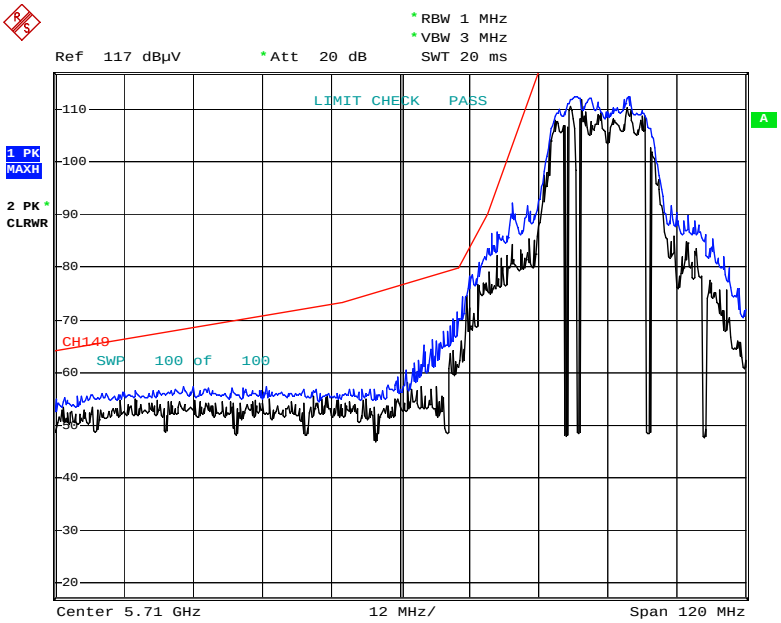
Date: 30.MAR.2018 02:43:45

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



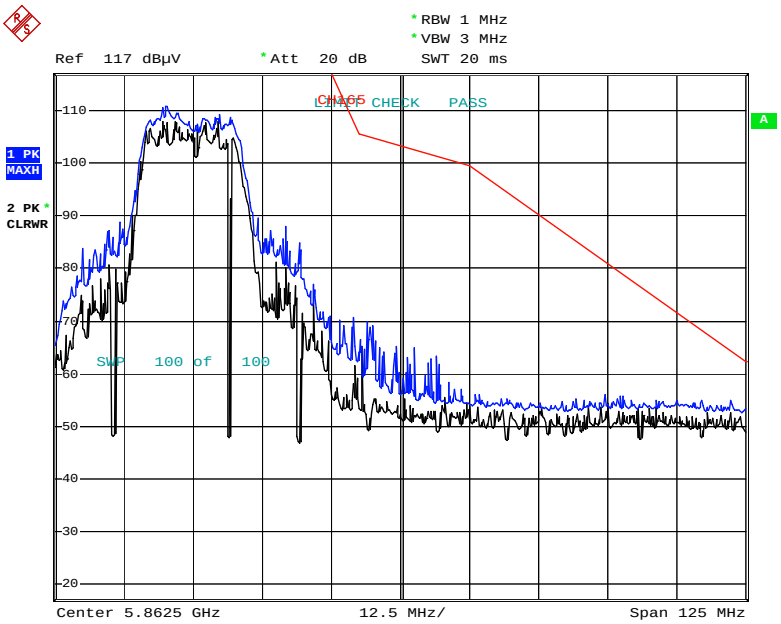
Date: 30.MAR.2018 02:55:00

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT20 ch.149)



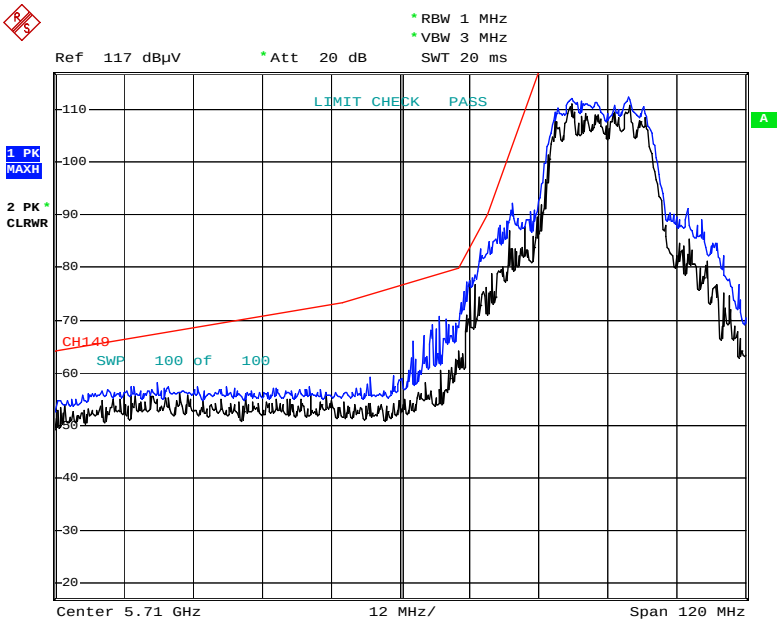
Date: 30.MAR.2018 02:45:09

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



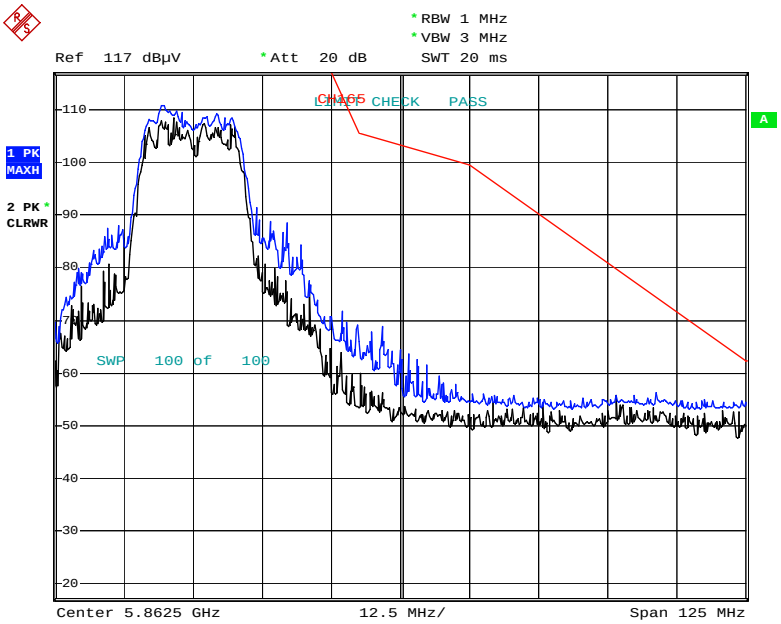
Date: 30.MAR.2018 02:55:44

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT20 ch.149)



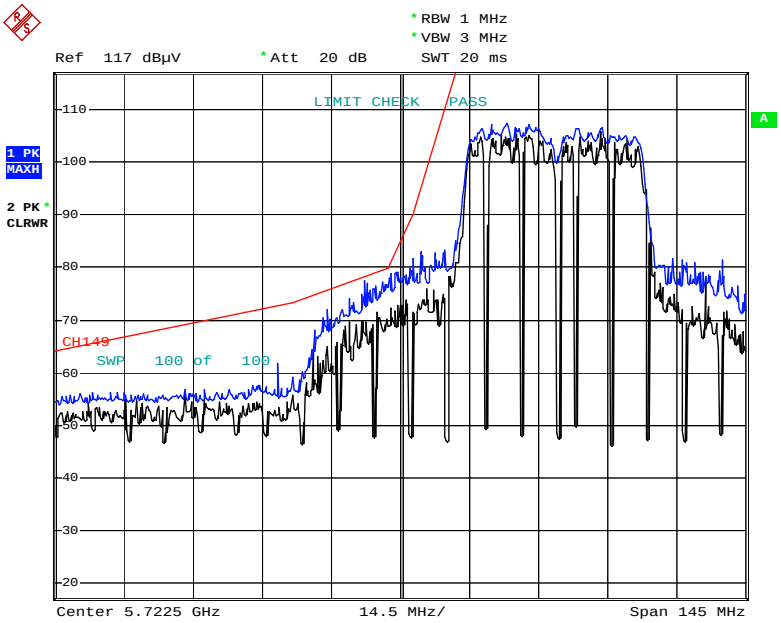
Date: 30.MAR.2018 02:46:00

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



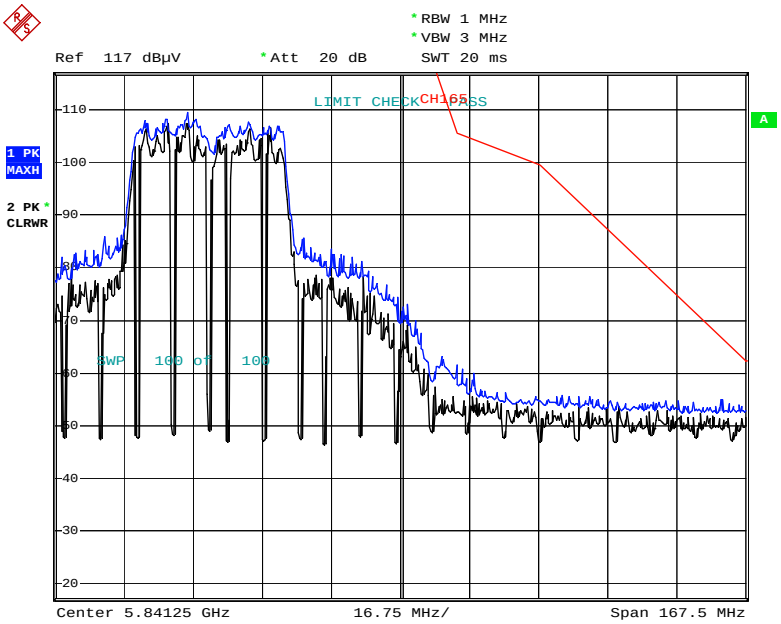
Date: 30.MAR.2018 02:56:31

Radiated Restricted Band Edges plot – Peak Reading (802.11n_HT40 ch.151)



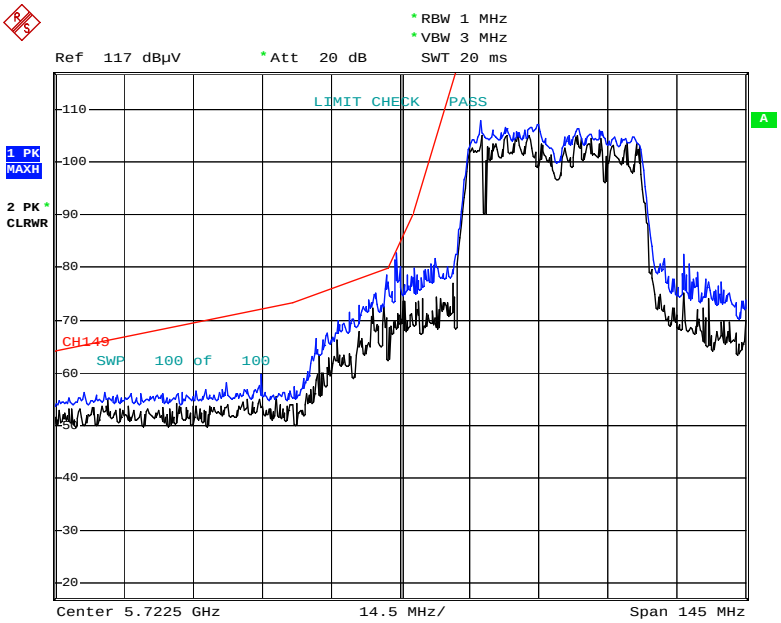
Date: 30.MAR.2018 03:05:57

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



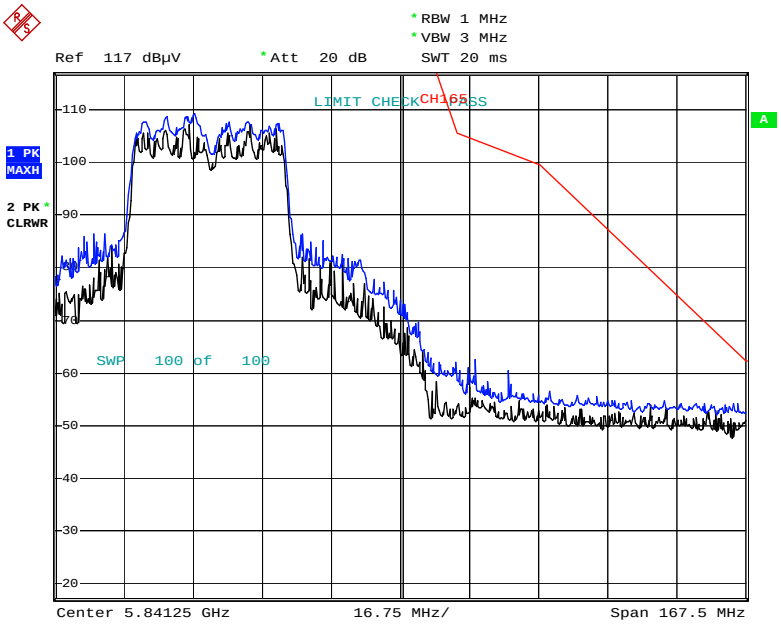
Date: 30.MAR.2018 03:15:30

Radiated Restricted Band Edges plot – Peak Reading (802.11ac_VHT40 ch.151)



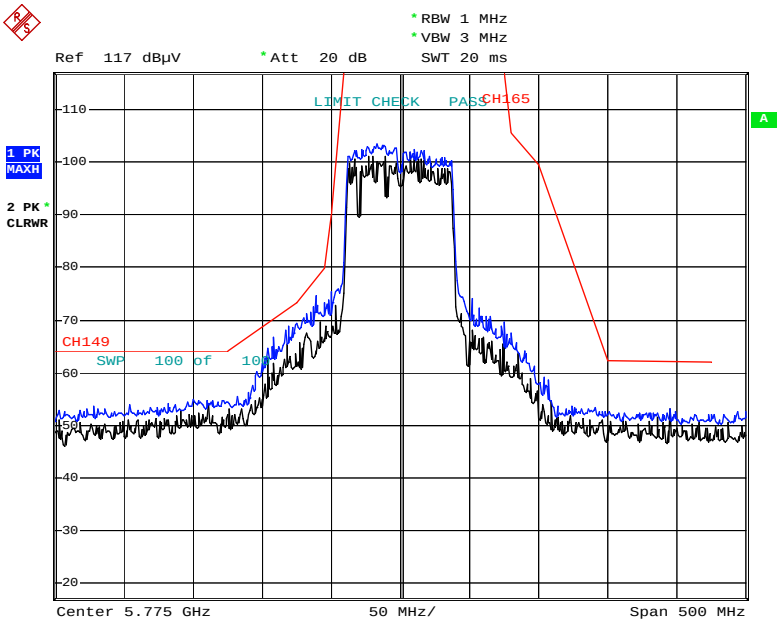
Date: 30.MAR.2018 03:08:12

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



Date: 30.MAR.2018 03:16:16

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



Date: 30.MAR.2018 03:25:13

9.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

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

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

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

Test Configuration

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

TEST PROCEDURE

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

Sample Calculation

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

▣ RESULT PLOTS

Conducted Emissions (Line 1)

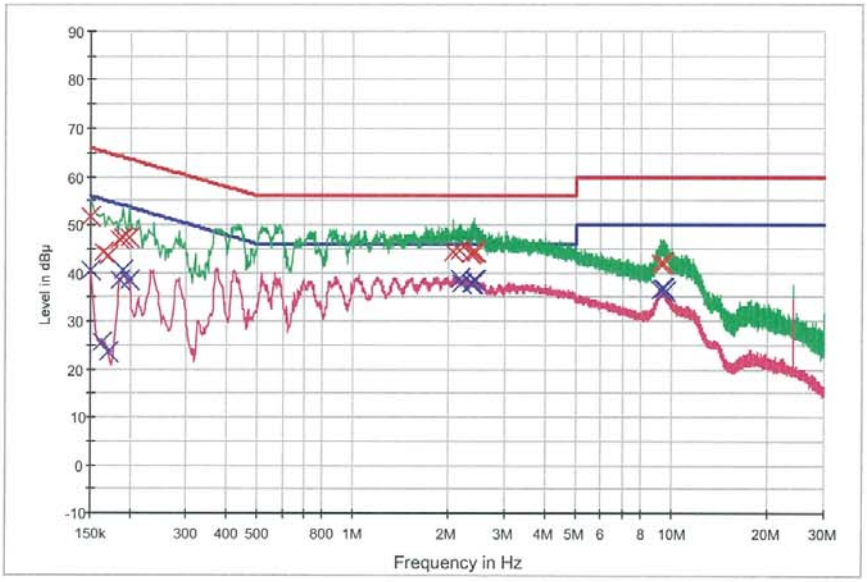
EMI Auto Test(21) 1 / 2

HCT TEST Report

Common Information

EUT:	VM3000G
Manufacturer:	가온미디어
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN 5G MODE

FCC CLASS B



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	51.7	9.000	Off	L1	9.6	14.3	66.0
0.164000	44.4	9.000	Off	L1	9.6	20.9	65.3
0.170000	43.5	9.000	Off	L1	9.6	21.5	65.0
0.186000	46.8	9.000	Off	L1	9.6	17.4	64.2
0.190000	47.4	9.000	Off	L1	9.6	16.7	64.0
0.198000	47.4	9.000	Off	L1	9.6	16.3	63.7
2.056000	44.2	9.000	Off	L1	9.7	11.8	56.0
2.148000	44.6	9.000	Off	L1	9.7	11.4	56.0
2.350000	44.0	9.000	Off	L1	9.7	12.0	56.0
2.368000	44.2	9.000	Off	L1	9.7	11.8	56.0
2.388000	44.5	9.000	Off	L1	9.7	11.5	56.0
2.420000	44.3	9.000	Off	L1	9.7	11.7	56.0
9.170000	41.8	9.000	Off	L1	9.9	18.2	60.0
9.204000	42.0	9.000	Off	L1	9.9	18.0	60.0
9.226000	41.8	9.000	Off	L1	9.9	18.2	60.0
9.244000	42.0	9.000	Off	L1	9.9	18.0	60.0
9.380000	42.0	9.000	Off	L1	9.9	18.0	60.0
9.438000	41.8	9.000	Off	L1	9.9	18.2	60.0

2018-04-14 오전 9:02:32

EMI Auto Test(21) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	40.4	9.000	Off	L1	9.6	15.6	56.0
0.162000	25.7	9.000	Off	L1	9.6	29.6	55.4
0.170000	23.5	9.000	Off	L1	9.6	31.5	55.0
0.186000	38.4	9.000	Off	L1	9.6	15.8	54.2
0.190000	40.4	9.000	Off	L1	9.6	13.6	54.0
0.198000	38.4	9.000	Off	L1	9.6	15.3	53.7
2.148000	38.7	9.000	Off	L1	9.7	7.3	46.0
2.188000	37.9	9.000	Off	L1	9.7	8.1	46.0
2.350000	37.8	9.000	Off	L1	9.7	8.2	46.0
2.368000	37.9	9.000	Off	L1	9.7	8.1	46.0
2.388000	38.4	9.000	Off	L1	9.7	7.6	46.0
2.428000	38.4	9.000	Off	L1	9.7	7.6	46.0
9.156000	36.4	9.000	Off	L1	9.9	13.6	50.0
9.170000	36.5	9.000	Off	L1	9.9	13.5	50.0
9.338000	36.9	9.000	Off	L1	9.9	13.2	50.0
9.380000	36.7	9.000	Off	L1	9.9	13.3	50.0
9.392000	36.7	9.000	Off	L1	9.9	13.3	50.0
9.528000	36.2	9.000	Off	L1	9.9	13.8	50.0

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Conducted Emissions (Line 2)

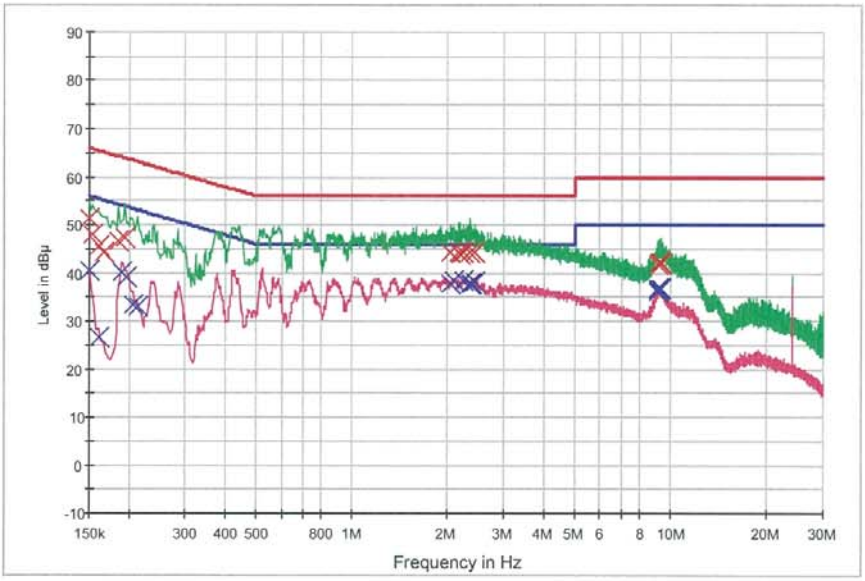
EMI Auto Test(21) 1 / 2

HCT TEST Report

Common Information

EUT:	VM3000G
Manufacturer:	가온미디어
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN 5G MODE

FCC CLASS B



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	51.4	9.000	Off	N	9.6	14.6	66.0
0.154000	47.9	9.000	Off	N	9.6	17.9	65.8
0.160000	45.6	9.000	Off	N	9.6	19.9	65.5
0.166000	44.1	9.000	Off	N	9.6	21.0	65.2
0.186000	46.6	9.000	Off	N	9.6	17.6	64.2
0.194000	47.2	9.000	Off	N	9.6	16.6	63.9
2.028000	44.1	9.000	Off	N	9.7	11.9	56.0
2.166000	44.2	9.000	Off	N	9.7	11.8	56.0
2.178000	44.0	9.000	Off	N	9.7	12.0	56.0
2.236000	44.3	9.000	Off	N	9.7	11.7	56.0
2.356000	44.1	9.000	Off	N	9.7	11.9	56.0
2.438000	44.2	9.000	Off	N	9.7	11.8	56.0
9.112000	41.8	9.000	Off	N	10.0	18.2	60.0
9.148000	41.8	9.000	Off	N	10.0	18.2	60.0
9.202000	42.0	9.000	Off	N	10.0	18.0	60.0
9.250000	42.1	9.000	Off	N	10.0	17.9	60.0
9.284000	42.1	9.000	Off	N	10.0	17.9	60.0
9.328000	42.0	9.000	Off	N	10.0	18.0	60.0

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EMI Auto Test(21) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	40.6	9.000	Off	N	9.6	15.4	56.0
0.160000	26.5	9.000	Off	N	9.6	28.9	55.5
0.190000	40.2	9.000	Off	N	9.6	13.8	54.0
0.196000	39.0	9.000	Off	N	9.6	14.8	53.8
0.206000	33.5	9.000	Off	N	9.6	19.9	53.4
0.214000	32.9	9.000	Off	N	9.6	20.1	53.0
2.028000	37.9	9.000	Off	N	9.7	8.1	46.0
2.076000	38.3	9.000	Off	N	9.7	7.7	46.0
2.236000	38.4	9.000	Off	N	9.7	7.6	46.0
2.356000	37.8	9.000	Off	N	9.7	8.2	46.0
2.360000	37.8	9.000	Off	N	9.7	8.2	46.0
2.438000	38.1	9.000	Off	N	9.7	7.9	46.0
9.060000	36.1	9.000	Off	N	10.0	13.9	50.0
9.112000	36.5	9.000	Off	N	10.0	13.5	50.0
9.148000	36.7	9.000	Off	N	10.0	13.3	50.0
9.202000	36.8	9.000	Off	N	10.0	13.2	50.0
9.284000	36.9	9.000	Off	N	10.0	13.1	50.0
9.328000	36.9	9.000	Off	N	10.0	13.1	50.0

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10. LIST OF TEST EQUIPMENT

10.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/20/2017	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2017	Annual	100033
ESPAC	SU-642 /Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/13/2017	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	06/12/2017	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/30/2017	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2017	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2017	Annual	100422

10.2 LIST OF TEST EQUIPMENT(Radiated Test)

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