

Appendix A

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: HD wireless video transmitter

Trade Mark: N/A

Test Model: 7061

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

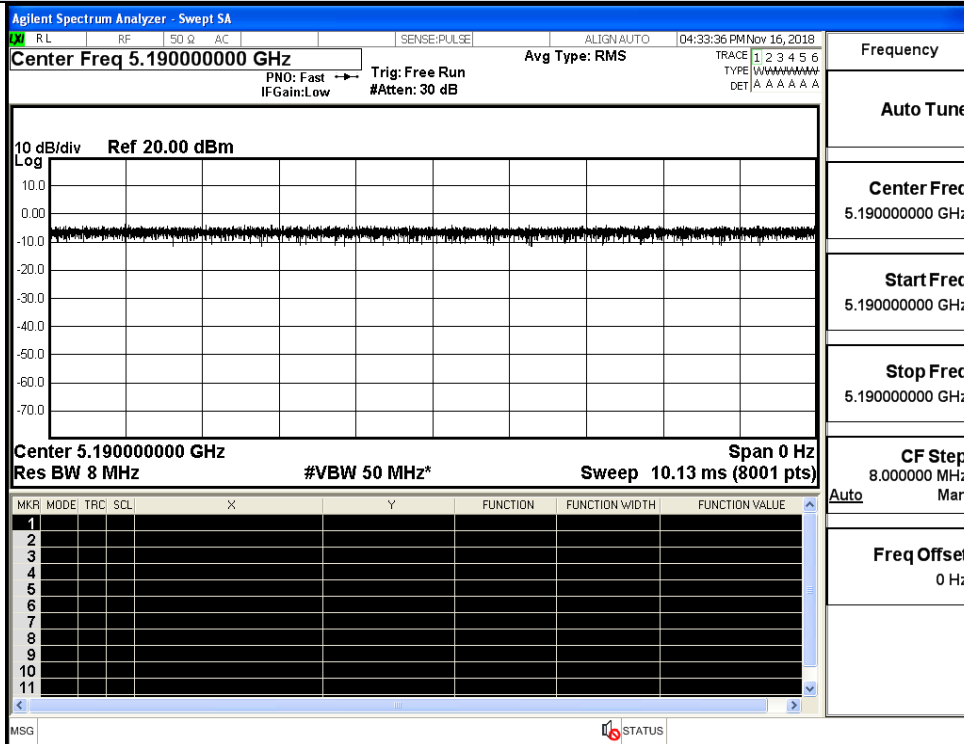
Antenna 0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5190	100	0.00	0.01

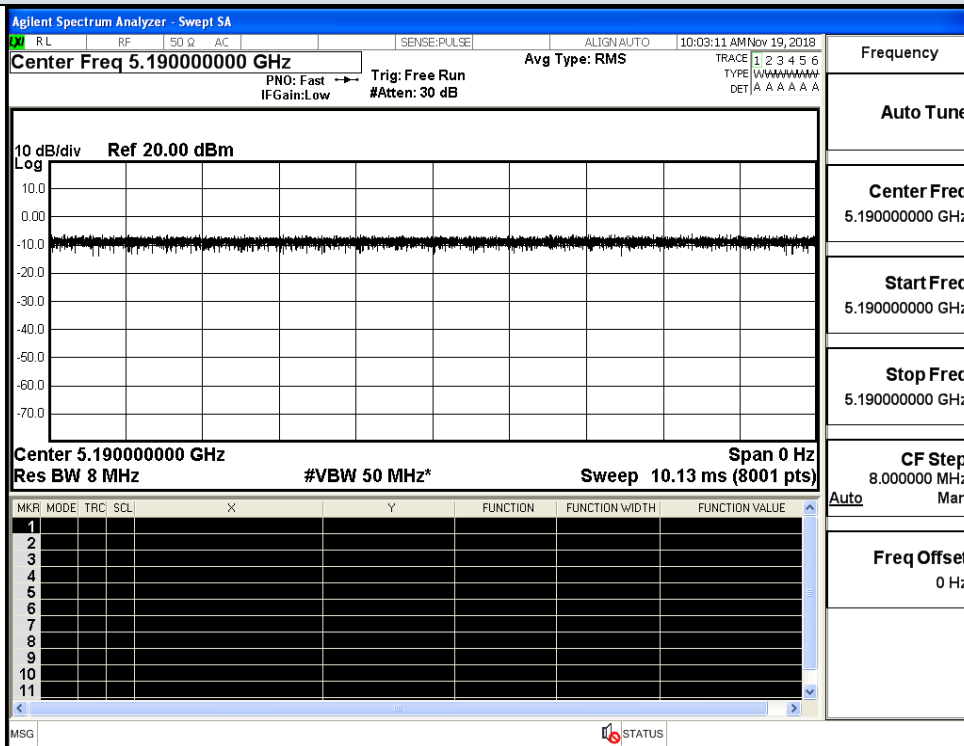
Antenna 1

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5190	100	0.00	0.01

On Time and Duty Cycle



IEEE 802.11n HT40_Ant0



IEEE 802.11n HT40_Ant1

A.2 Maximum Conduct Output Power

Antenna 0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	38	5190	10.06	0	10.06	30
	46	5230	13.25	0	13.25	

Antenna 1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	38	5190	10.70	0	10.70	30
	46	5230	12.40	0	12.40	

Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)			Limit (dBm)
				Ant0	Ant1	Sum	
11N40	38	5190	0	10.06	10.70	13.40	30
	46	5230	0	13.25	12.40	15.86	

A.3 Power Spectral Density

Antenna 0

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)
11N40	38	5190	-3.252	0	-3.252	17
	46	5230	-0.108	0	-0.108	

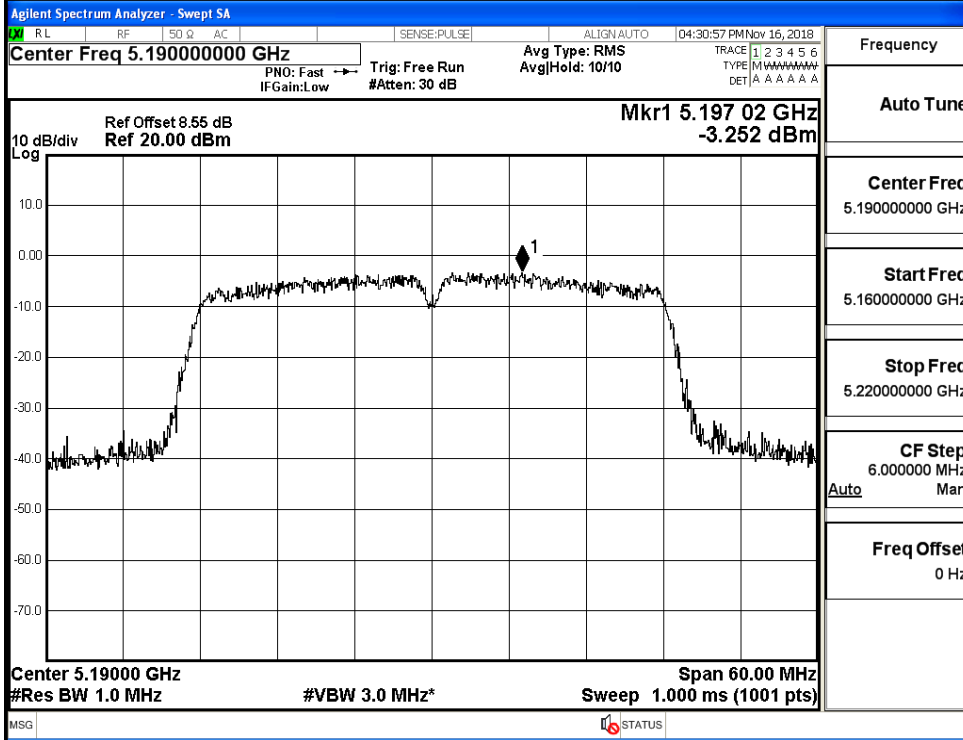
Antenna 1

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)
11N40	38	5190	-2.575	0	-2.575	17
	46	5230	-0.922	0	-0.922	

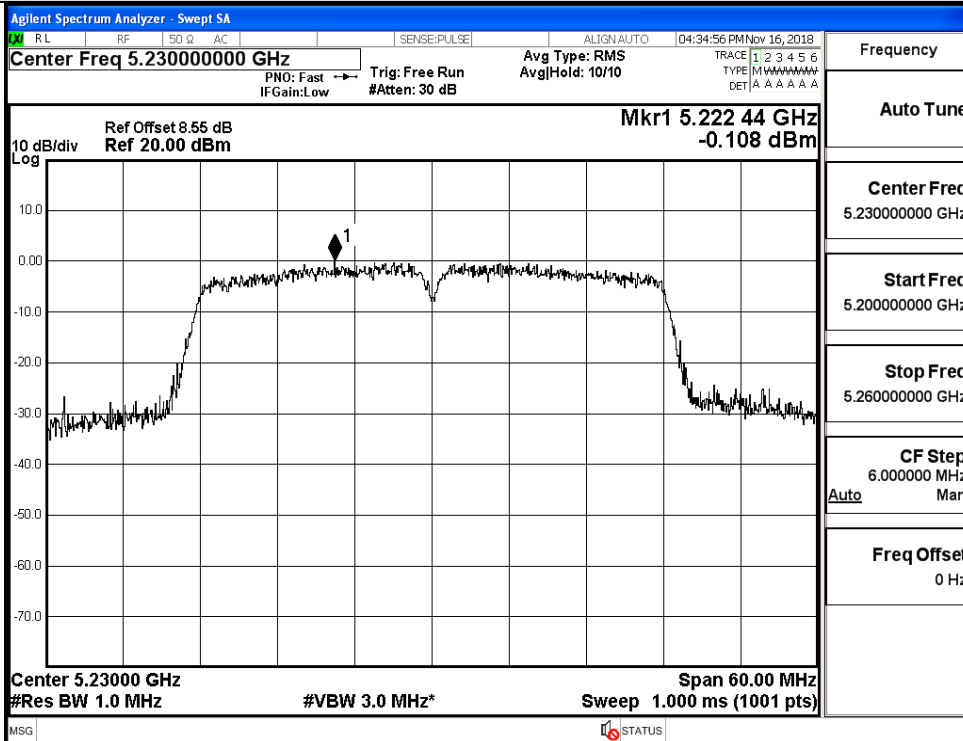
Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)			Limit (dBm/MHz)
				Ant0	Ant1	Sum	
11N40	38	5190	0	-3.252	-2.575	0.110	14.99
	46	5230	0	-0.108	-0.922	2.514	

Power Spectral Density

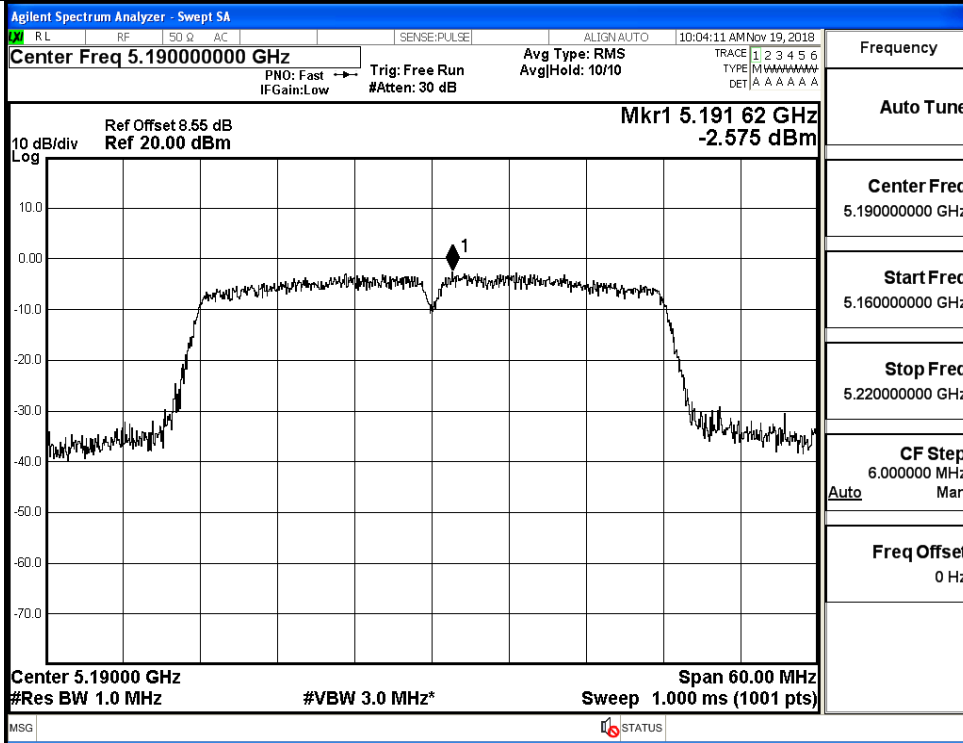


IEEE 802.11n HT40 / Channel 38 / 5190 MHz_Ant0

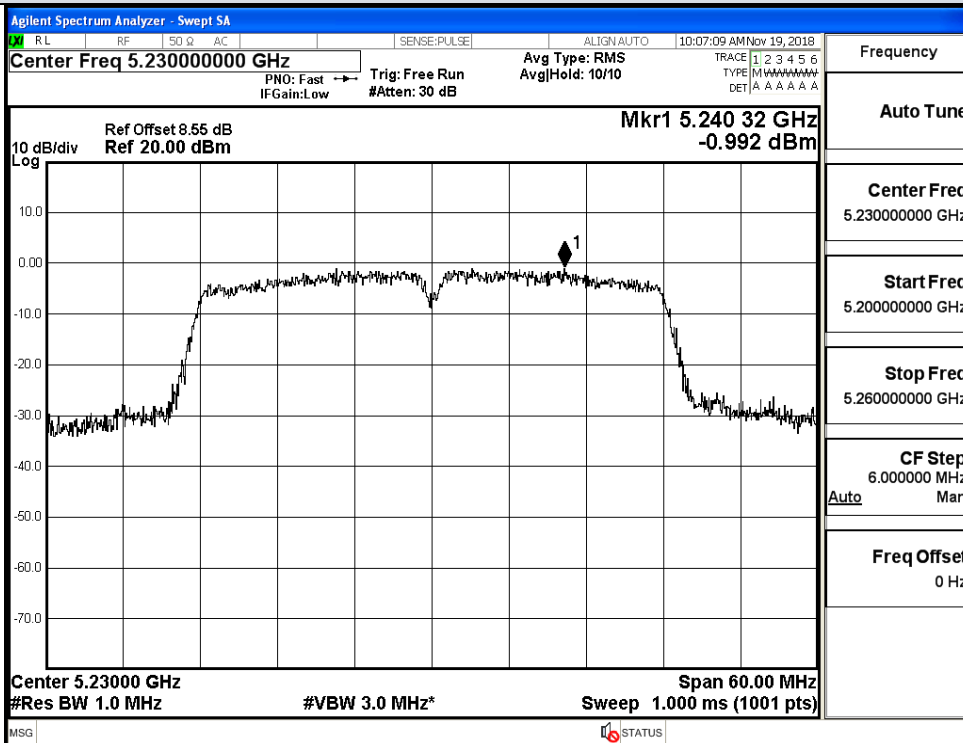


IEEE 802.11n HT40 / Channel 46 / 5230 MHz_Ant0

Power Spectral Density



IEEE 802.11n HT40 / Channel 38 / 5190 MHz_Ant1



IEEE 802.11n HT40 / Channel 46 / 5230 MHz_Ant1

A.4 Emission Bandwidth

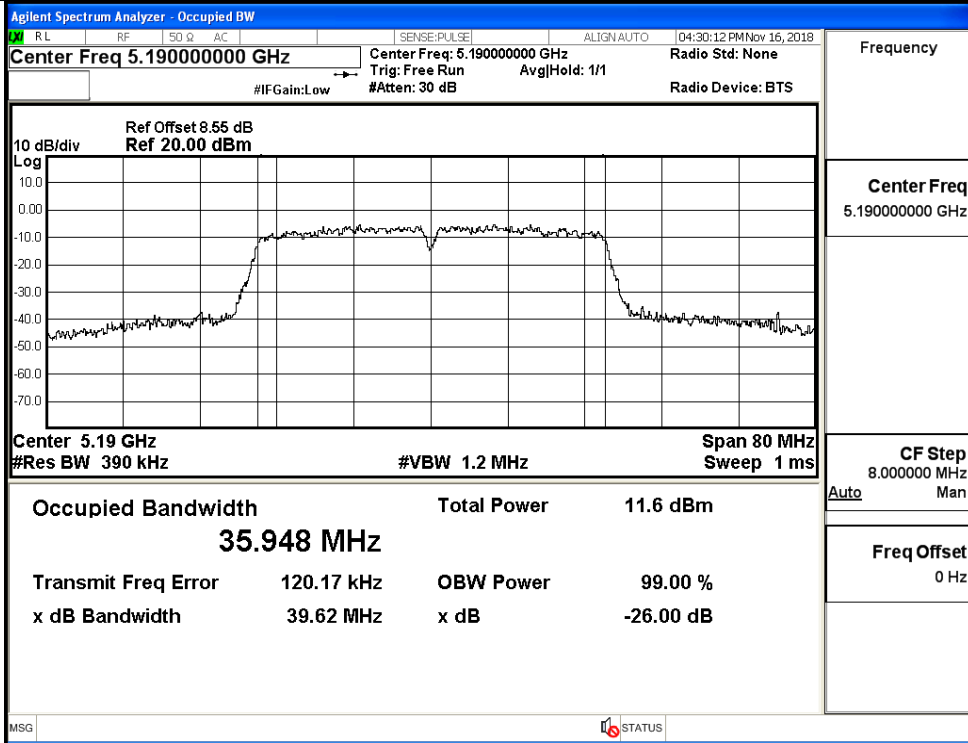
Antenna 0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
11N40	38	5190	39.620	35.948	No Limit
	46	5230	44.600	36.047	

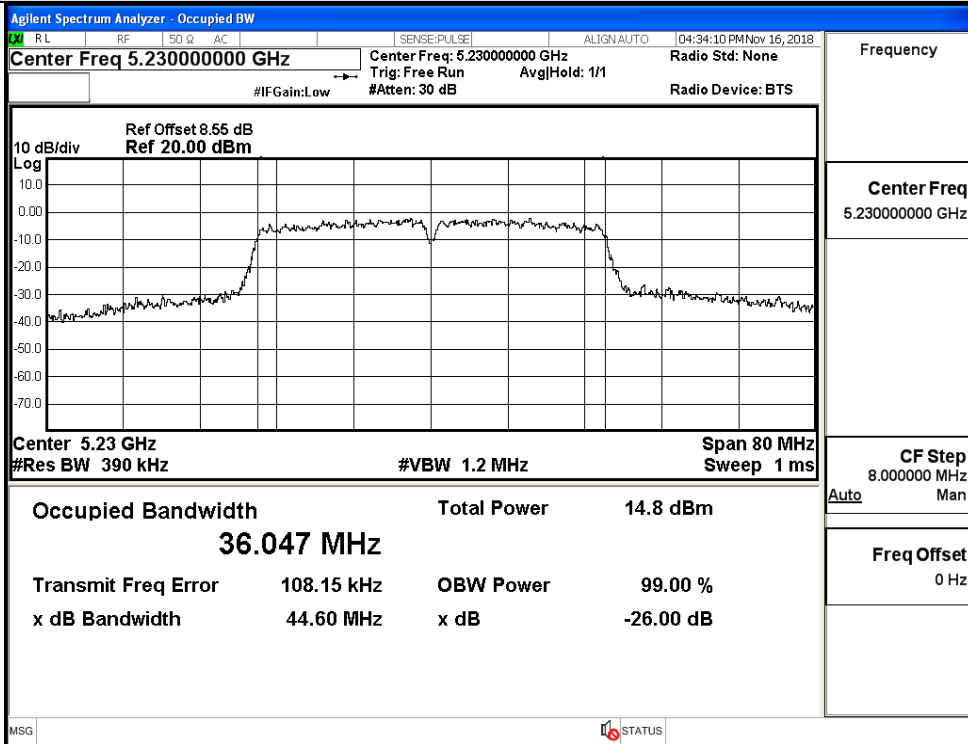
Antenna 1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
11N40	38	5190	39.760	35.875	No Limit
	46	5230	43.480	35.995	

99% and 26dB Bandwidth

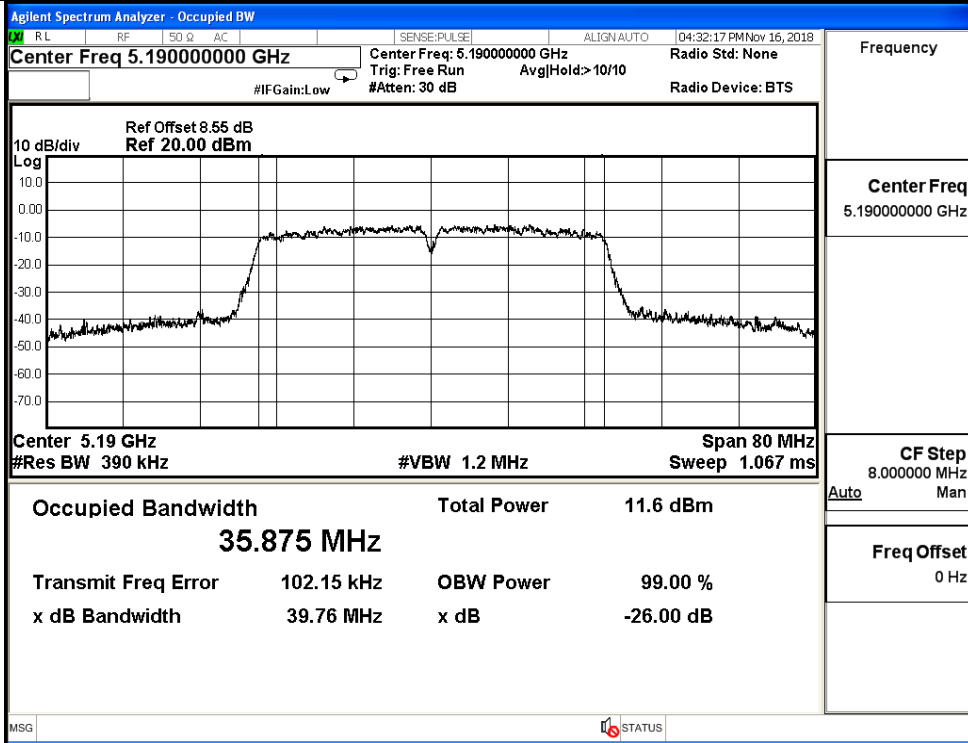


IEEE 802.11n HT40 / Channel 38 / 5190 MHz_Ant0

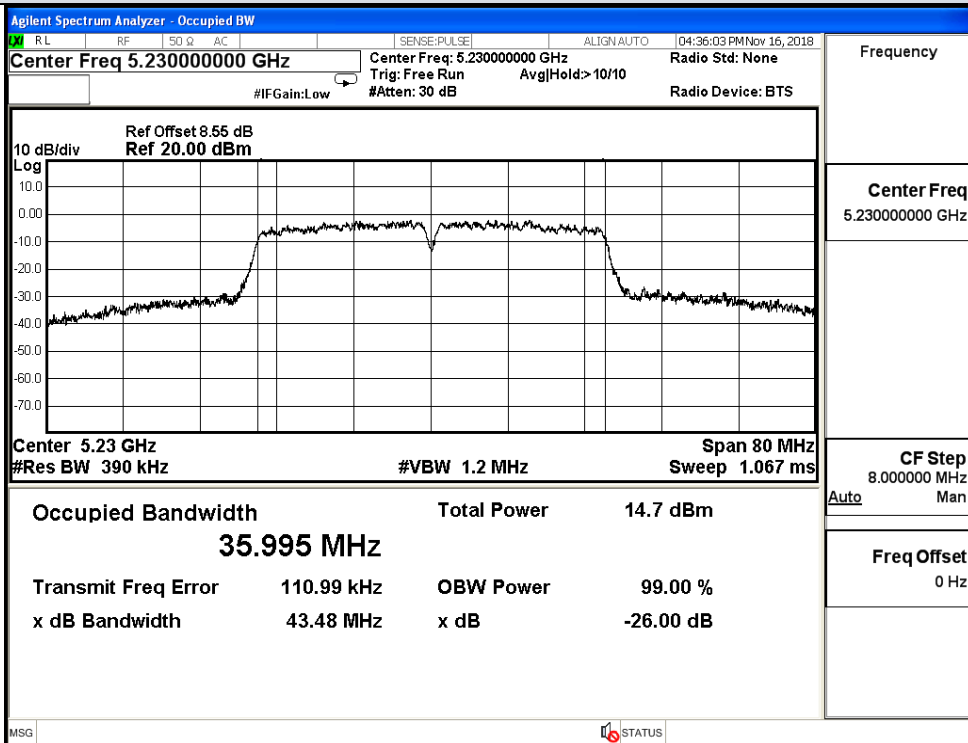


IEEE 802.11n HT40 / Channel 46 / 5230 MHz_Ant0

99% and 26dB Occupied Bandwidth



IEEE 802.11n HT40 / Channel 38 / 5190 MHz_Ant1



IEEE 802.11n HT40 / Channel 46 / 5230 MHz_Ant1

A.5 Undesirable Emissions Measurement

Antenna 0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
11N40	38	4500.0	-49.647	5.00	0	50.581	Peak	68.20
		4500.0	-60.555	5.00	0	39.673	Average	54.00
		5150.0	-40.388	5.00	0	59.840	Peak	68.20
		5150.0	-51.938	5.00	0	48.290	Average	54.00
	46	5350.0	-48.374	5.00	0	51.854	Peak	68.20
		5350.0	-58.658	5.00	0	41.570	Average	54.00
		5460.0	-51.155	5.00	0	49.073	Peak	68.20
		5460.0	-60.238	5.00	0	39.990	Average	54.00

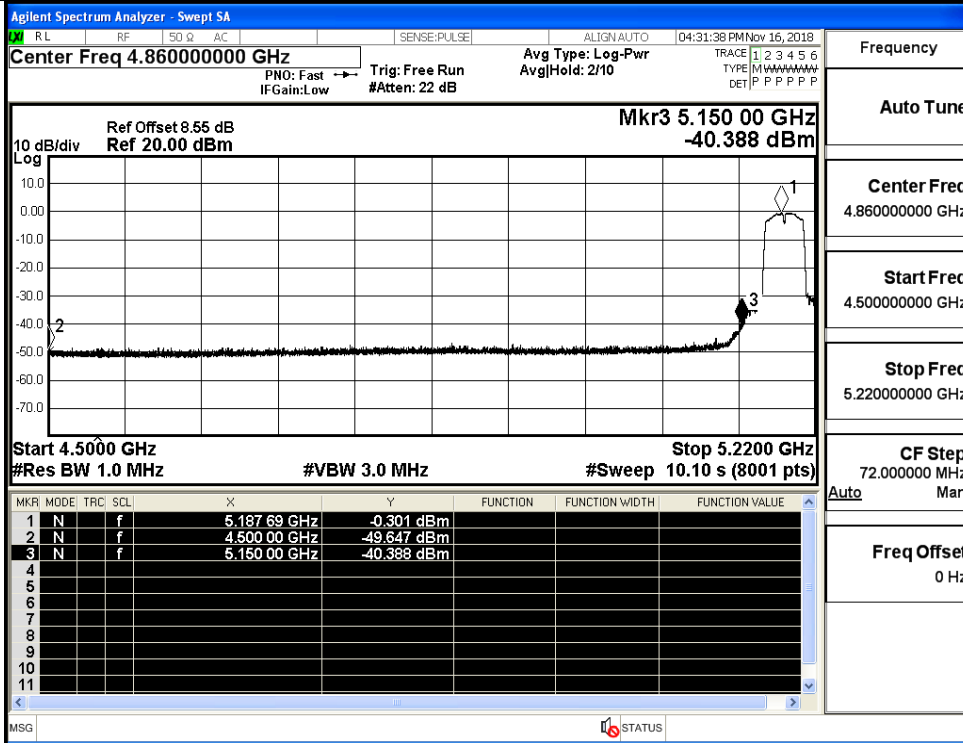
Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
11N40	38	4500.0	-50.000	5.00	0	50.228	Peak	68.20
		4500.0	-60.567	5.00	0	39.661	Average	54.00
		5150.0	-36.604	5.00	0	63.624	Peak	68.20
		5150.0	-49.269	5.00	0	50.959	Average	54.00
	46	5350.0	-48.934	5.00	0	51.294	Peak	68.20
		5350.0	-59.194	5.00	0	41.034	Average	54.00
		5460.0	-50.403	5.00	0	49.825	Peak	68.20
		5460.0	-60.371	5.00	0	39.857	Average	54.00

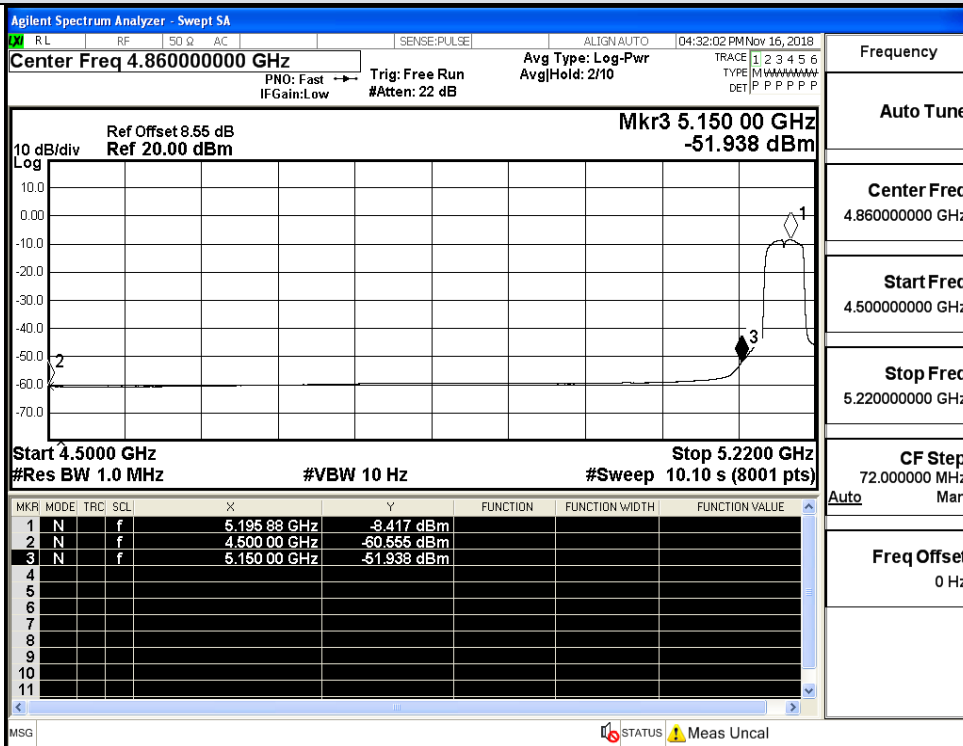
Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
			Ant0	Ant1	Sum					
11N40	38	4500.0	-49.647	-50.000	-46.810	8.01	0	56.428	Peak	68.20
		4500.0	-60.555	-60.567	-57.551	8.01	0	45.687	Average	54.00
		5150.0	-40.388	-36.604	-35.086	8.01	0	68.152	Peak	68.20
		5150.0	-51.938	-49.269	-47.391	8.01	0	55.847	Average	54.00
	46	5350.0	-48.374	-48.934	-45.635	8.01	0	57.603	Peak	68.20
		5350.0	-58.658	-59.194	-55.907	8.01	0	47.331	Average	54.00
		5460.0	-51.155	-50.403	-47.752	8.01	0	55.486	Peak	68.20
		5460.0	-60.238	-60.371	-57.294	8.01	0	45.944	Average	54.00

Undesirable Emissions Measurement

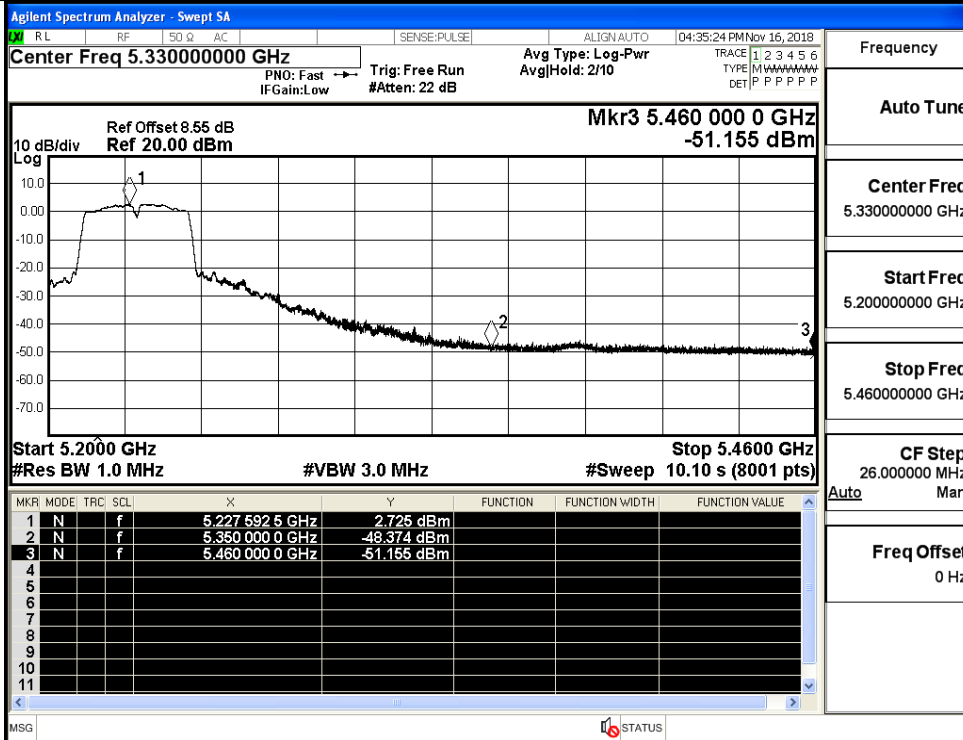


IEEE 802.11n HT40 / Channel 38 / 5190 MHz / Peak_Ant0

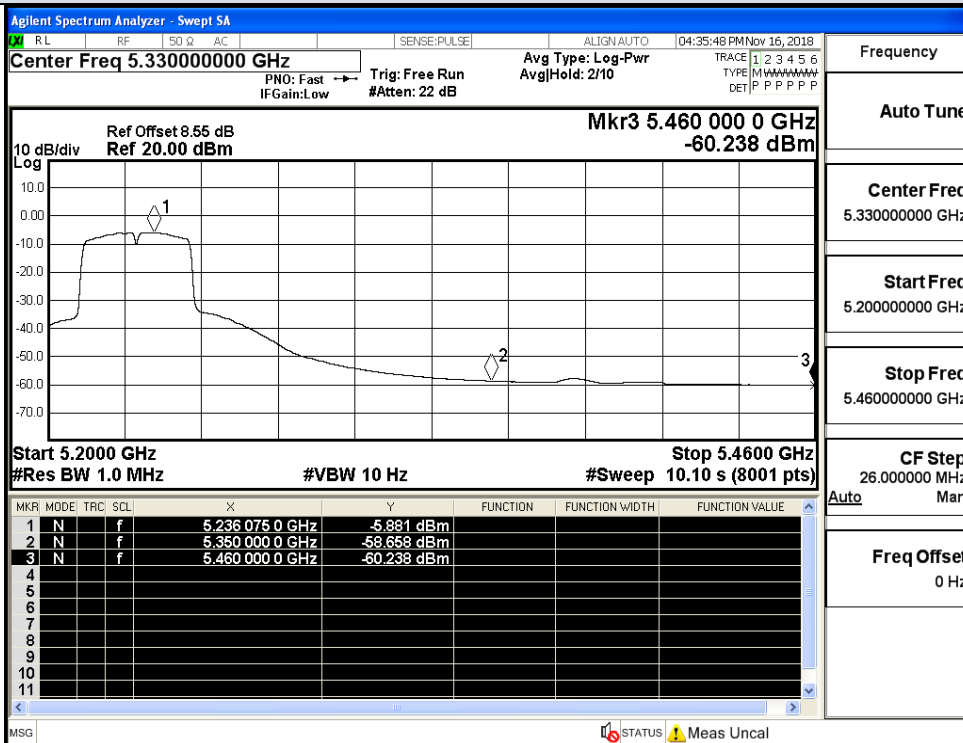


IEEE 802.11 HTn40 / Channel 38 / 5190 MHz / Average_Ant0

Undesirable Emissions Measurement

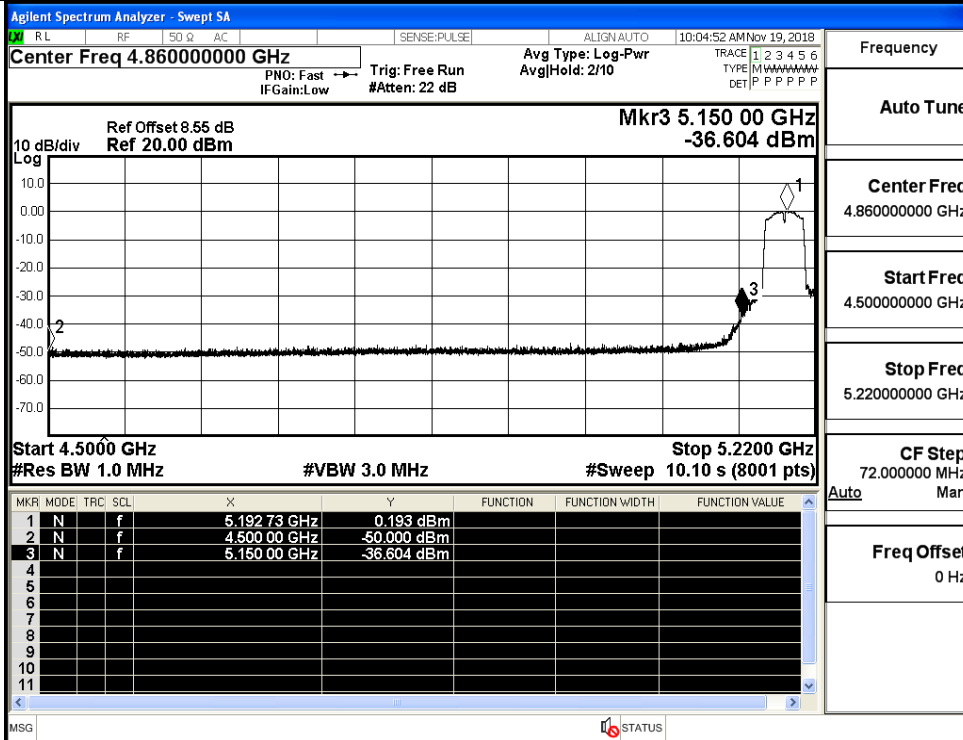


IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Peak_Ant0

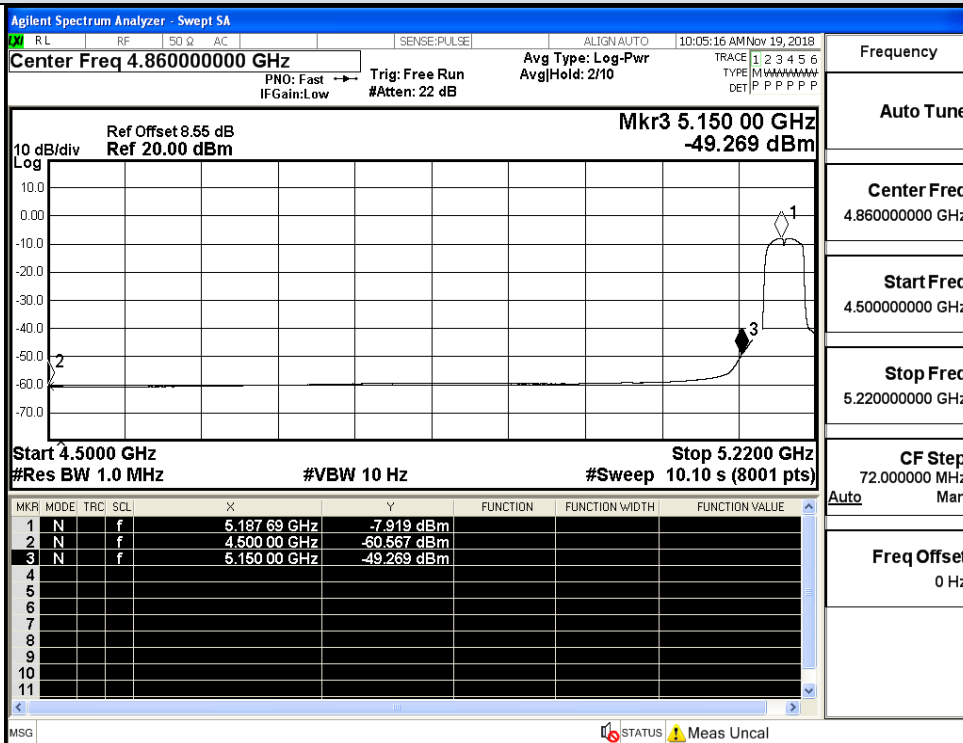


IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Average_Ant0

Undesirable Emissions Measurement

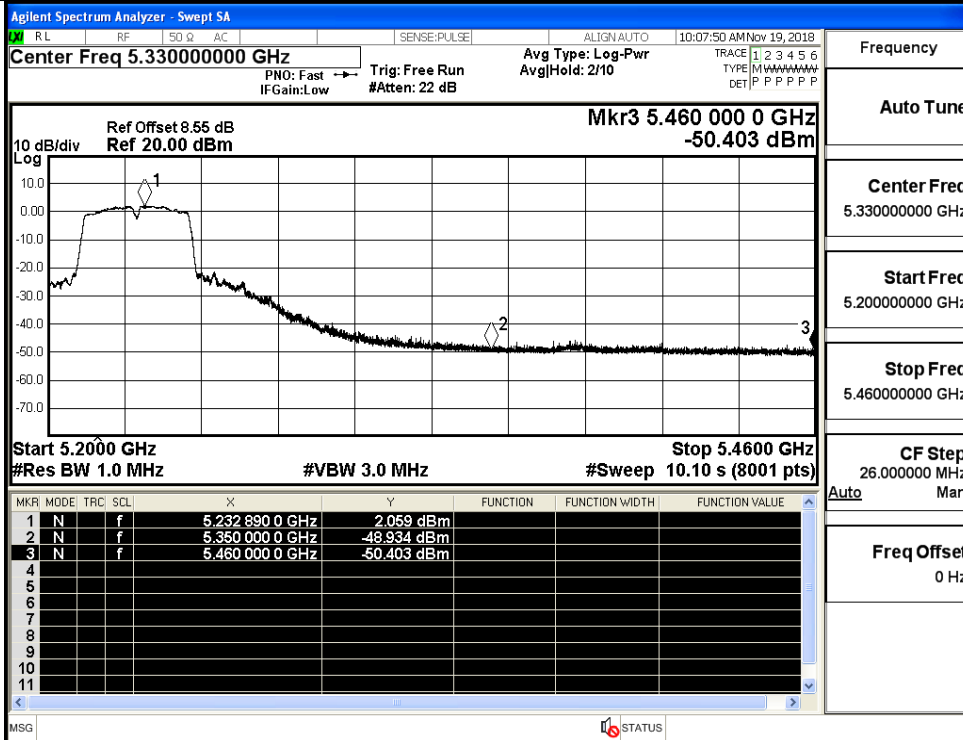


IEEE 802.11n HT40 / Channel 38 / 5190 MHz / Peak_Ant1

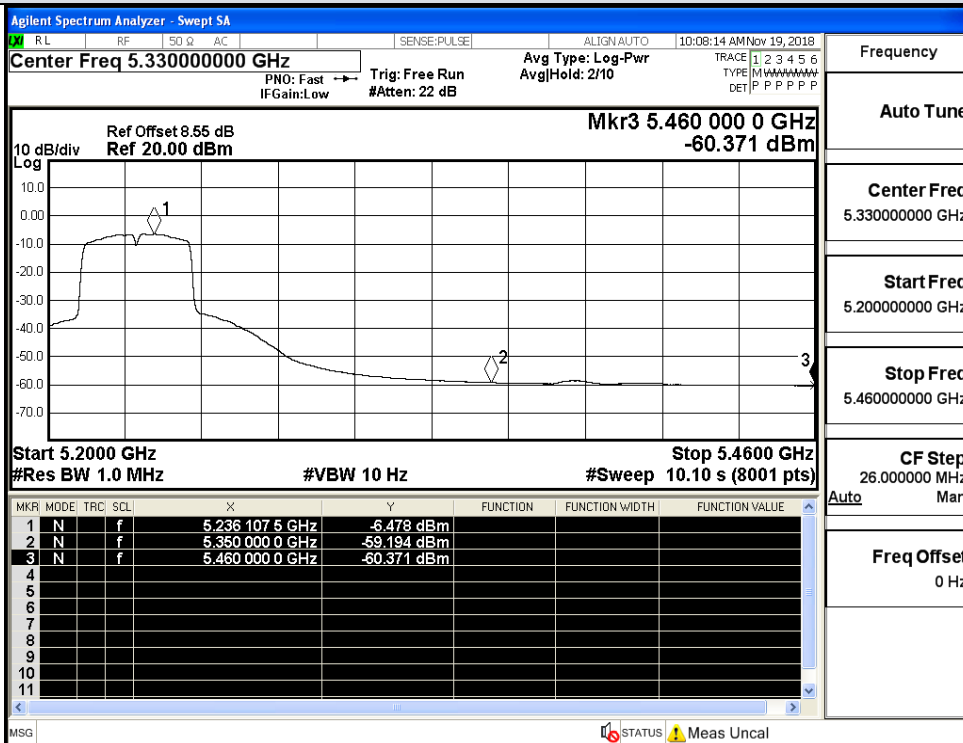


IEEE 802.11n HT40 / Channel 38 / 5190 MHz / Average_Ant1

Undesirable Emissions Measurement



IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Peak_Ant1



IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Average_Ant1