

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Tablet pc

Trade Mark: DayMark

Test Model: MATT85

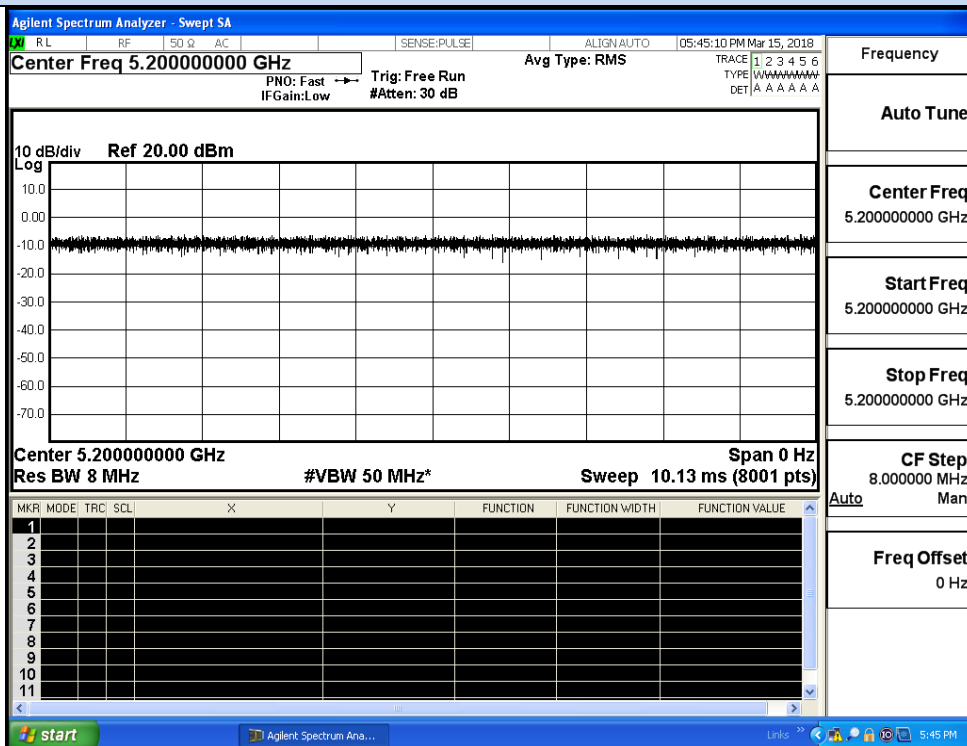
Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	WC Wang
Supervised by:	Tom.Liu

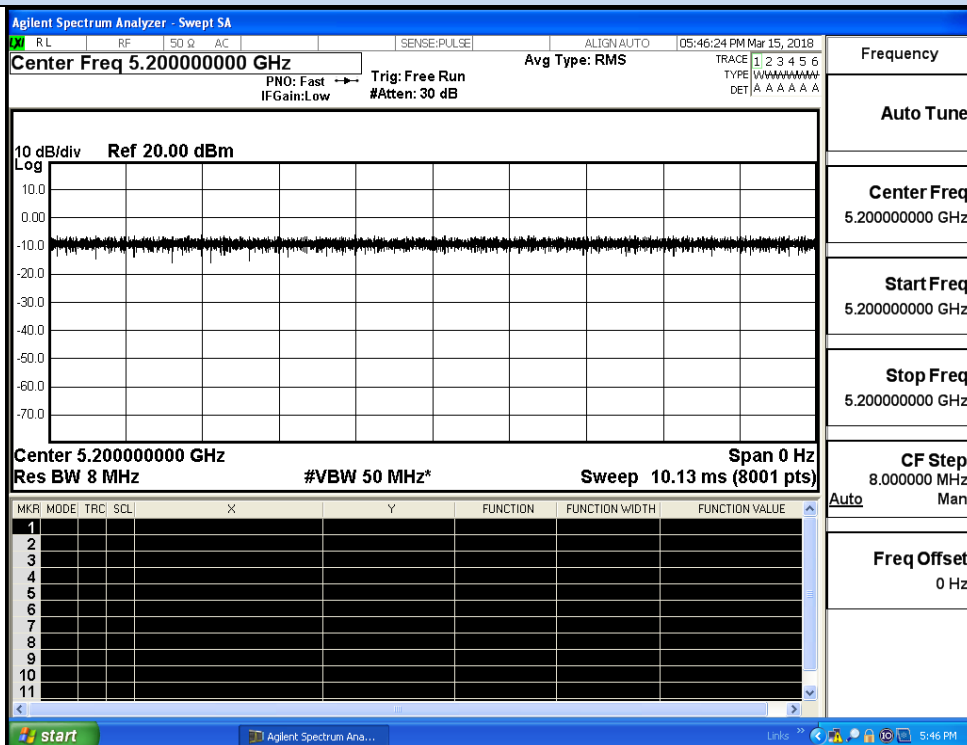
D.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01
11N20 SISO	5200	100	0.00	0.01
11N40 SISO	5190	100	0.00	0.01
11AC20 SISO	5200	100	0.00	0.01
11AC40 SISO	5190	100	0.00	0.01

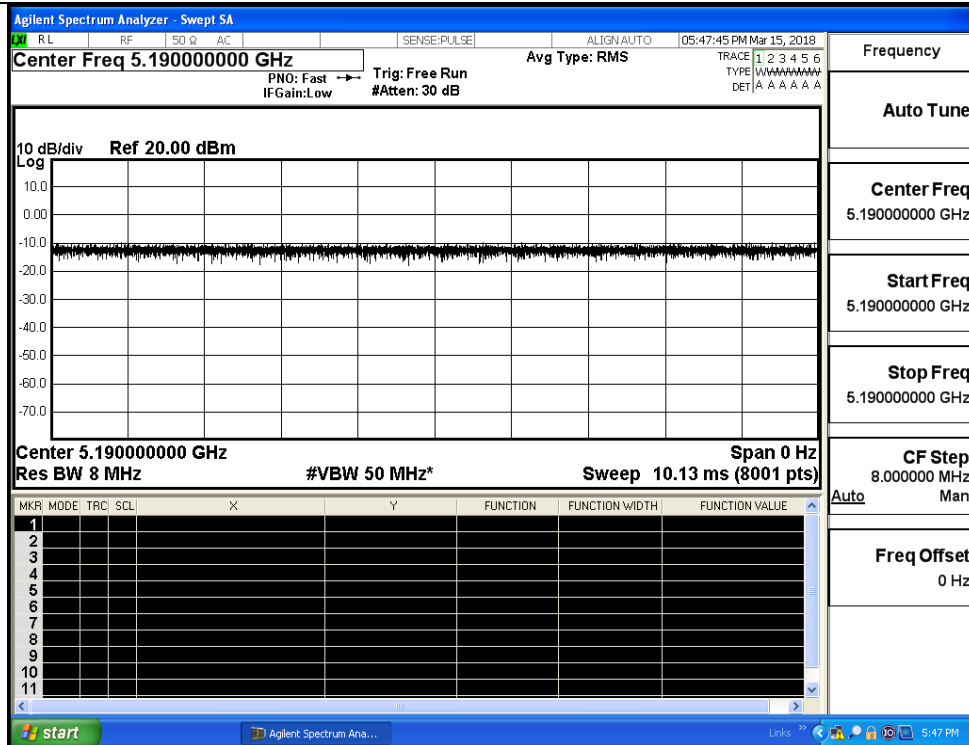
On Time and Duty Cycle



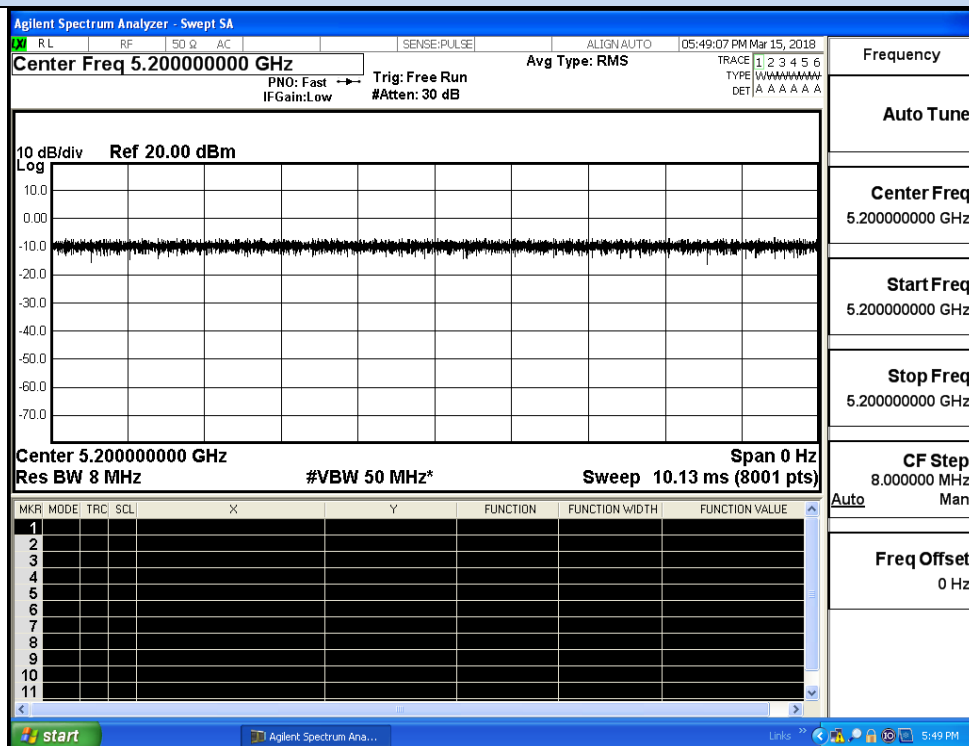
IEEE 802.11a



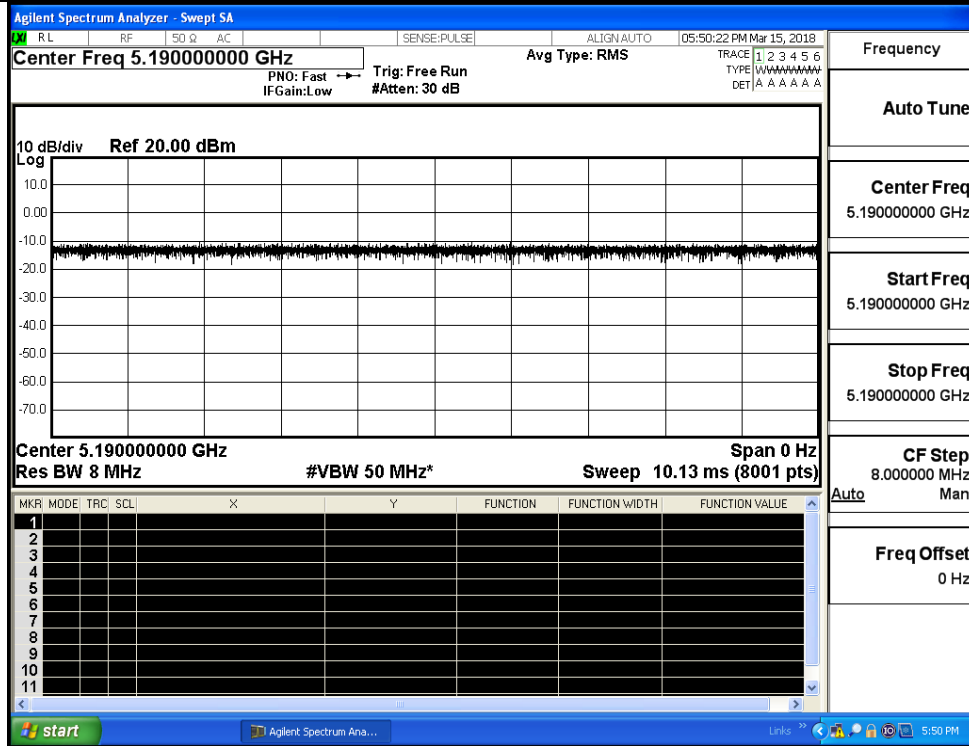
IEEE 802.11n HT20



IEEE 802.11n HT40



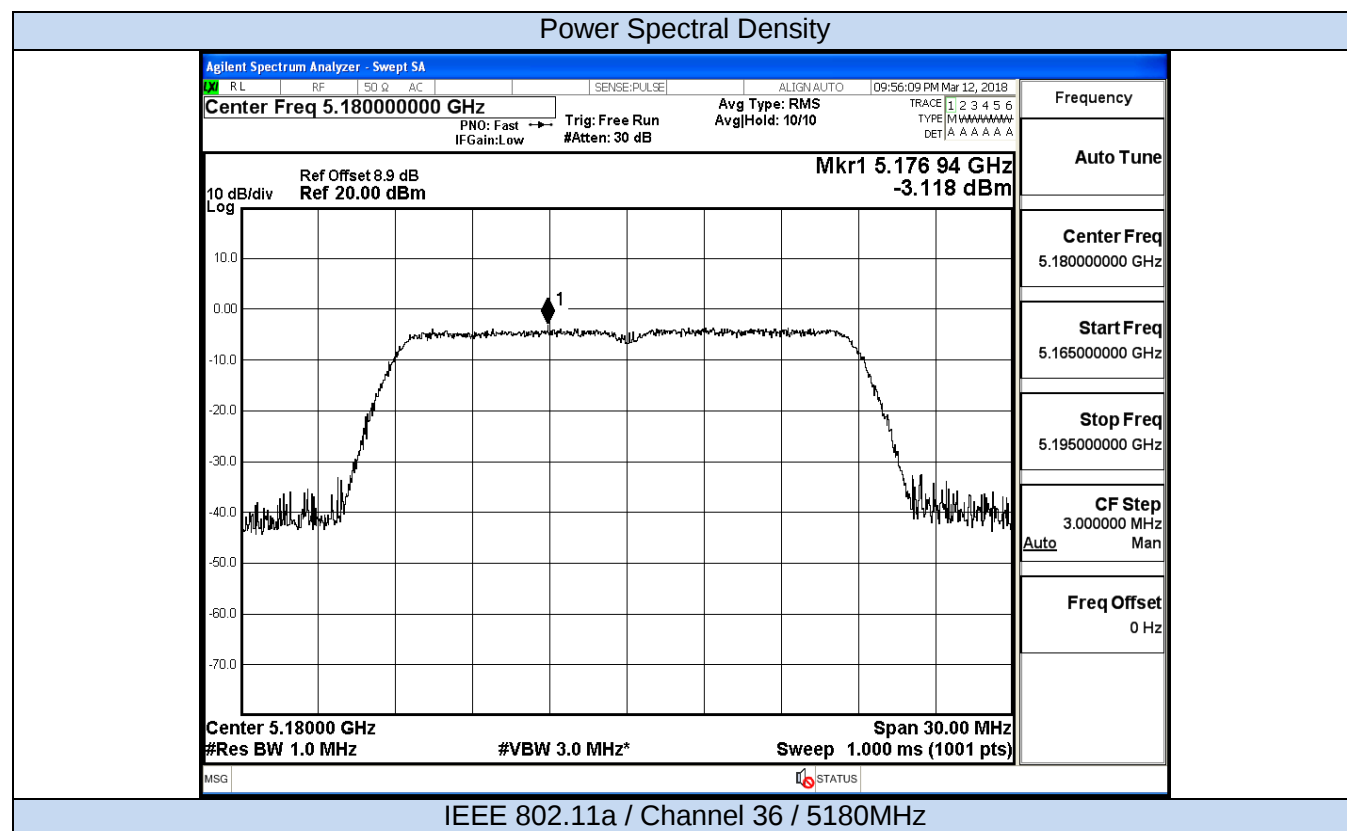
IEEE 802.11AC20

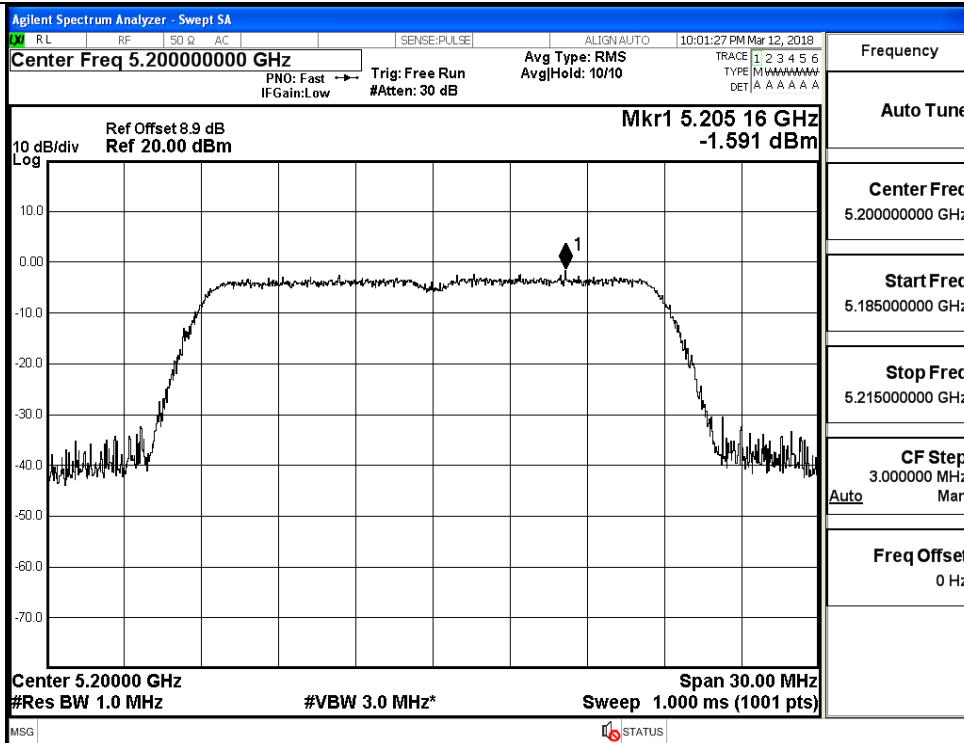


IEEE 802.11 AC40

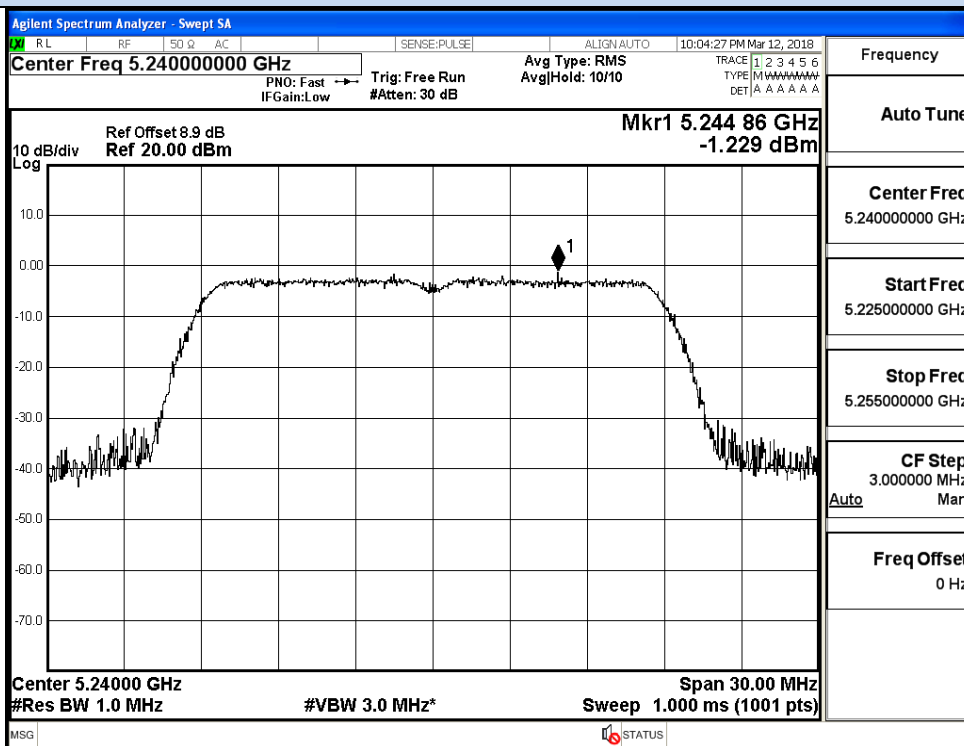
D.2 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	-3.12	0	-2.99	11	Pass
	40	5200	-1.59	0	-1.46		Pass
	48	5240	-1.23	0	-1.10		Pass
11N20 SISO	36	5180	-2.05	0	-1.92	11	Pass
	40	5200	-2.14	0	-2.01		Pass
	48	5240	-1.08	0	-0.95		Pass
11N40 SISO	38	5190	-6.63	0	-6.38	11	Pass
	46	5230	-5.35	0	-5.35		Pass
11AC20 SISO	36	5180	-4.45	0	-4.45	11	Pass
	40	5200	-3.55	0	-3.55		Pass
	48	5240	-3.41	0	-3.41		Pass
11AC40 SISO	38	5190	-6.37	0	-6.37	11	Pass
	46	5230	-6.11	0	-6.11		Pass



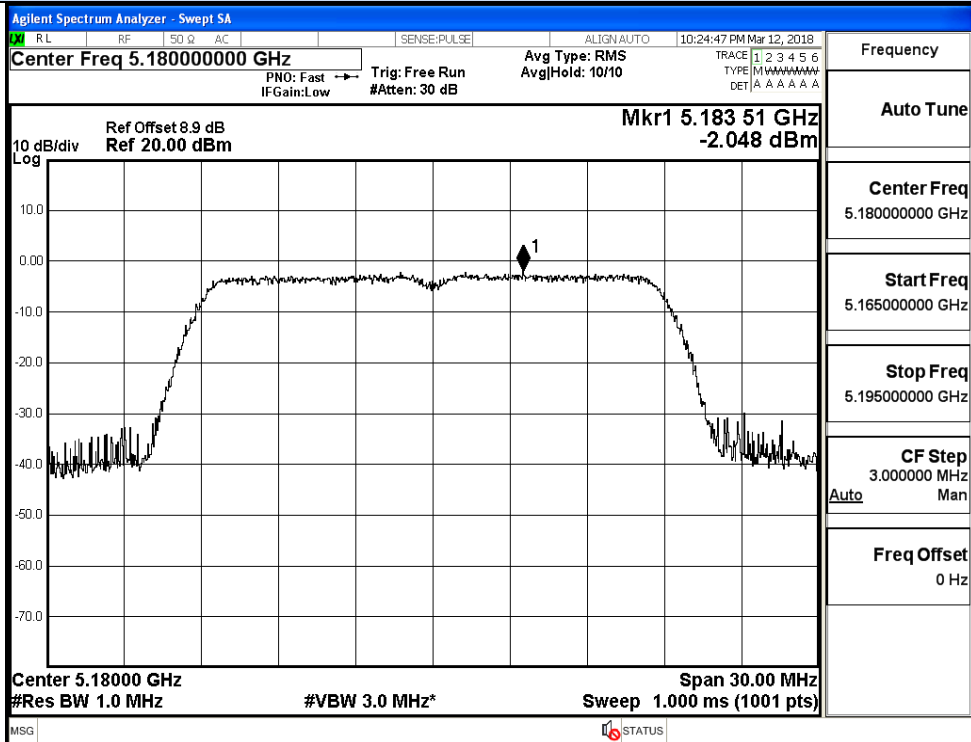


IEEE 802.11na / Channel 40 / 5200MHz

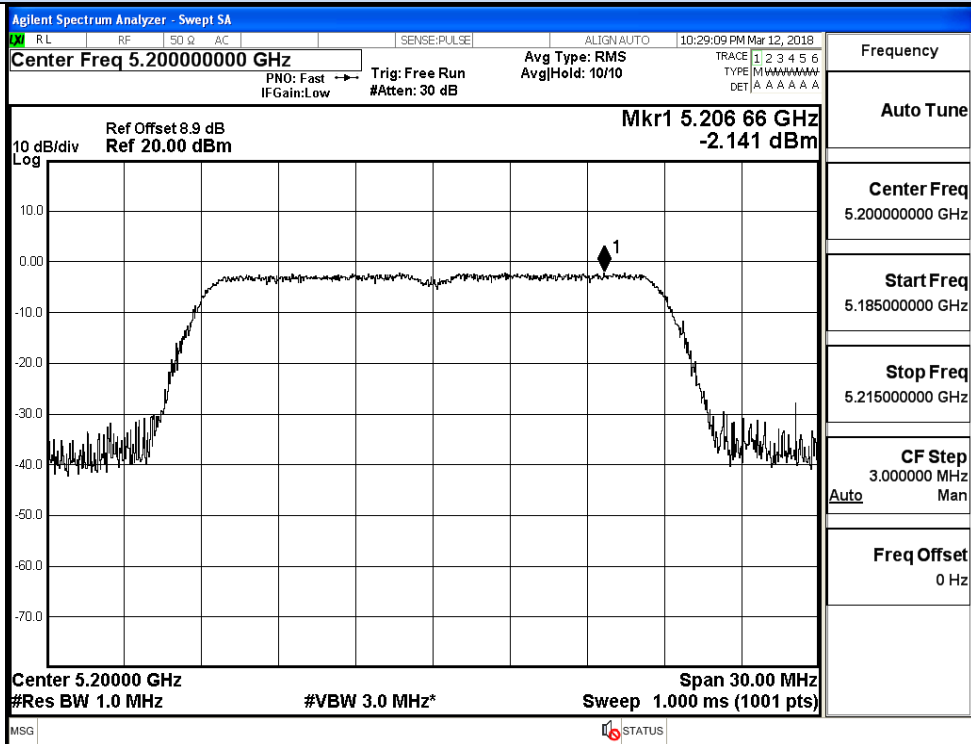


IEEE 802.11na / Channel 48 / 5240MHz

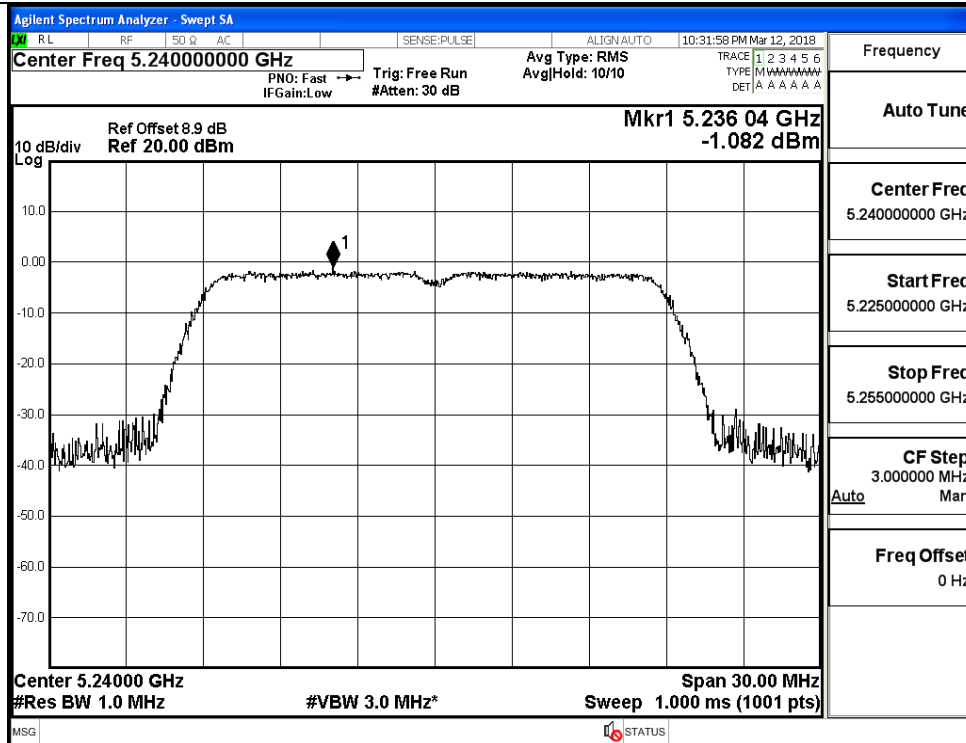
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

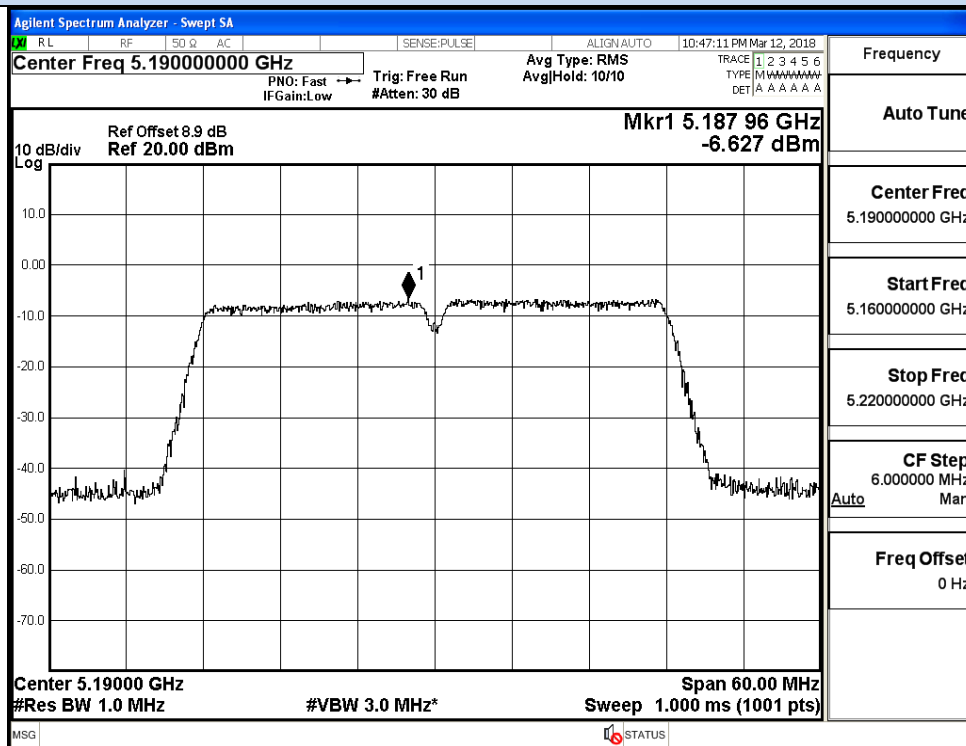


IEEE 802.11n20 / Channel 40 / 5200MHz

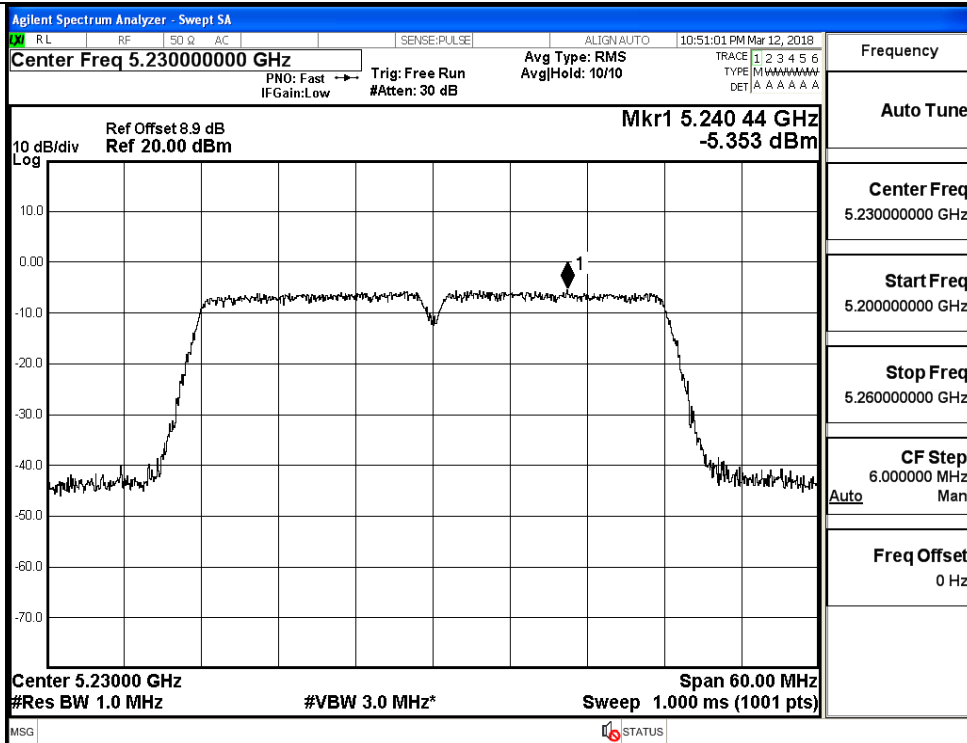


IEEE 802.11n20 / Channel 48 / 5240MHz

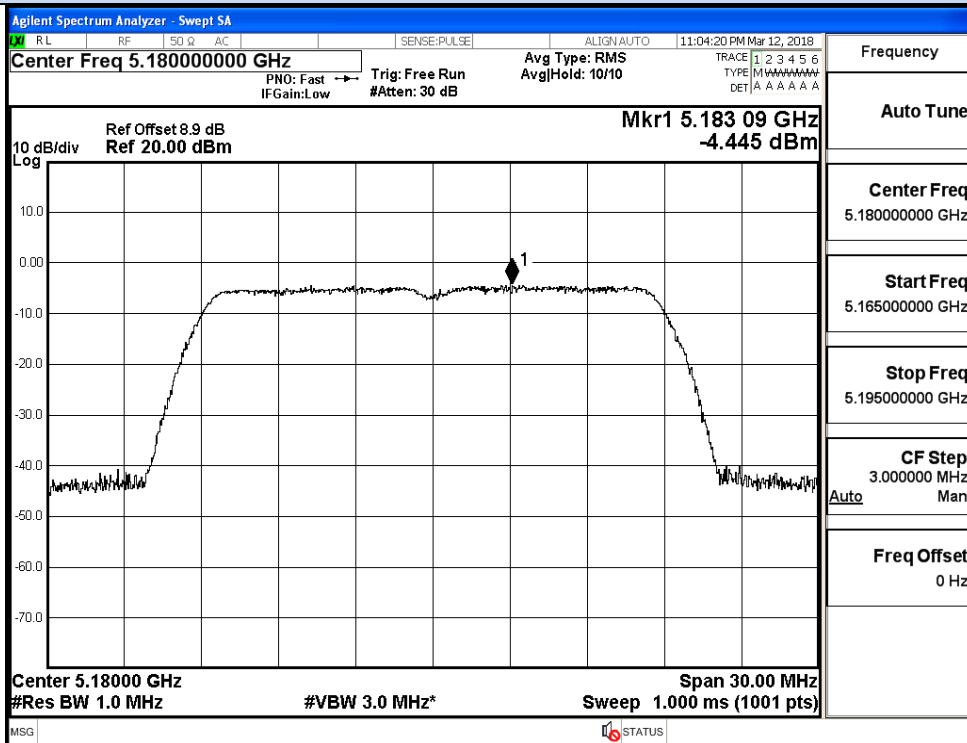
Power Spectral Density



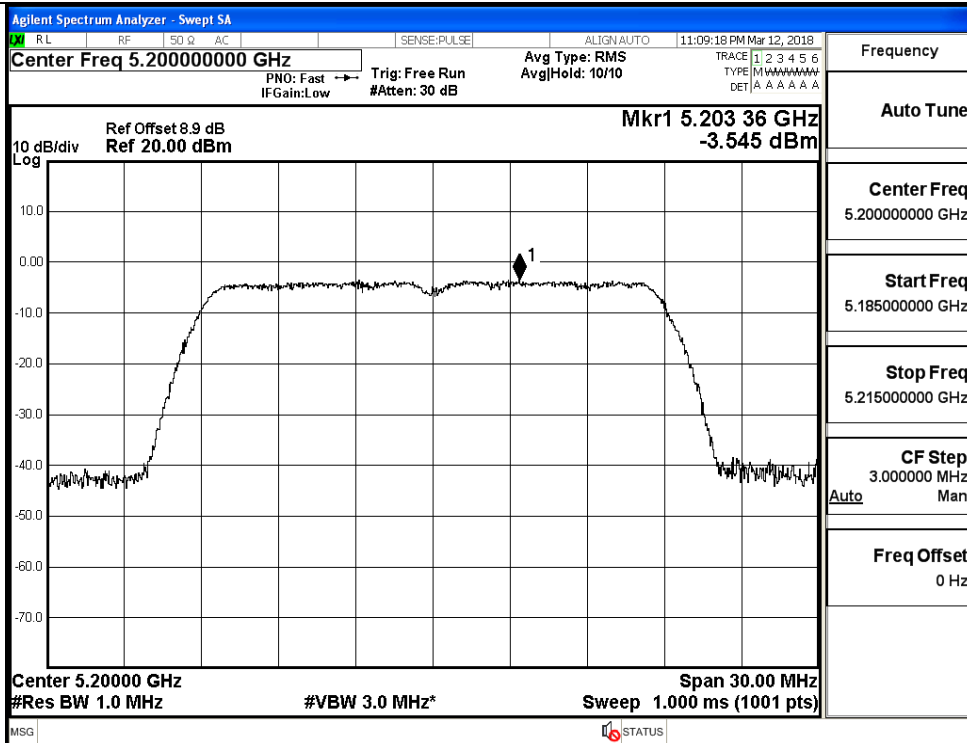
IEEE 802.11n40 / Channel 38 / 5190MHz



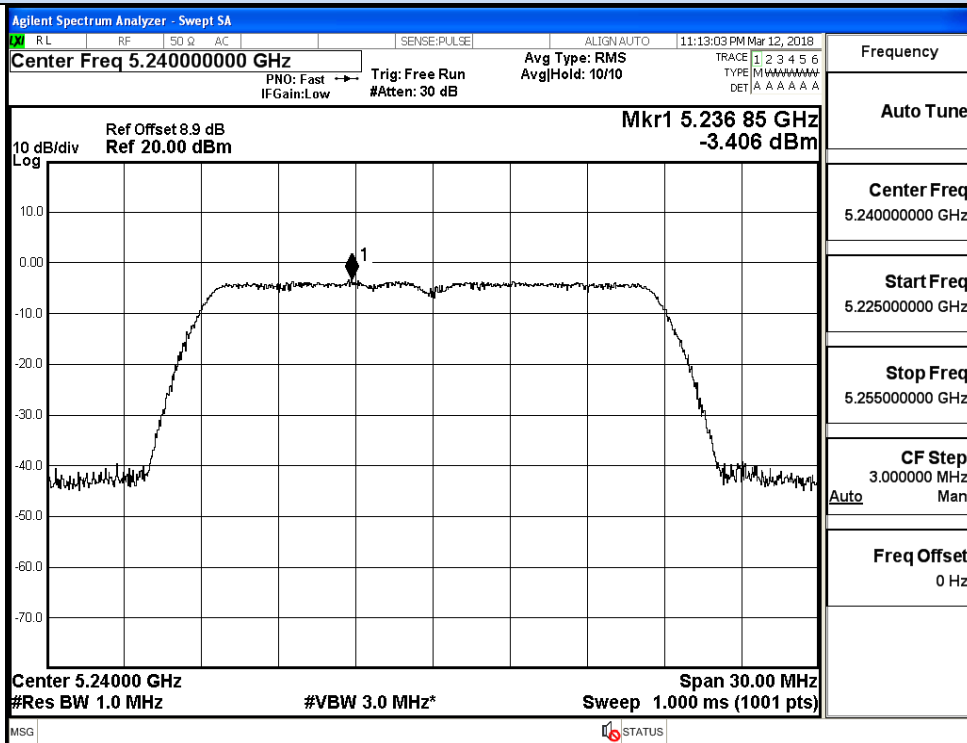
IEEE 802.11n40 / Channel 46 / 5230MHz



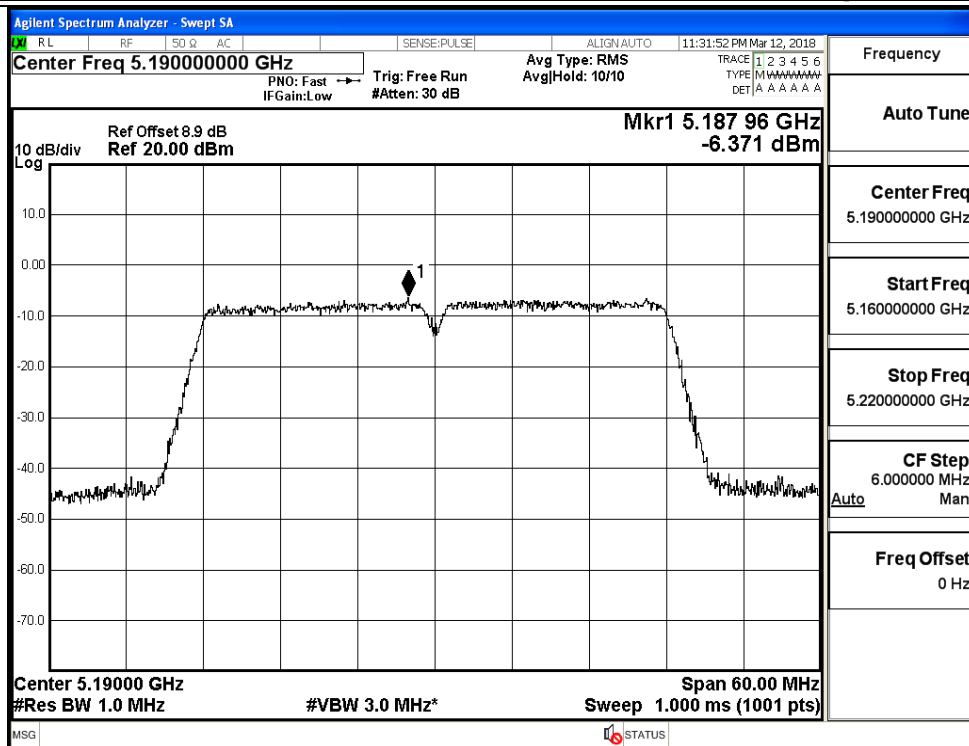
IEEE 802.11ac20 / Channel 36 / 5180MHz



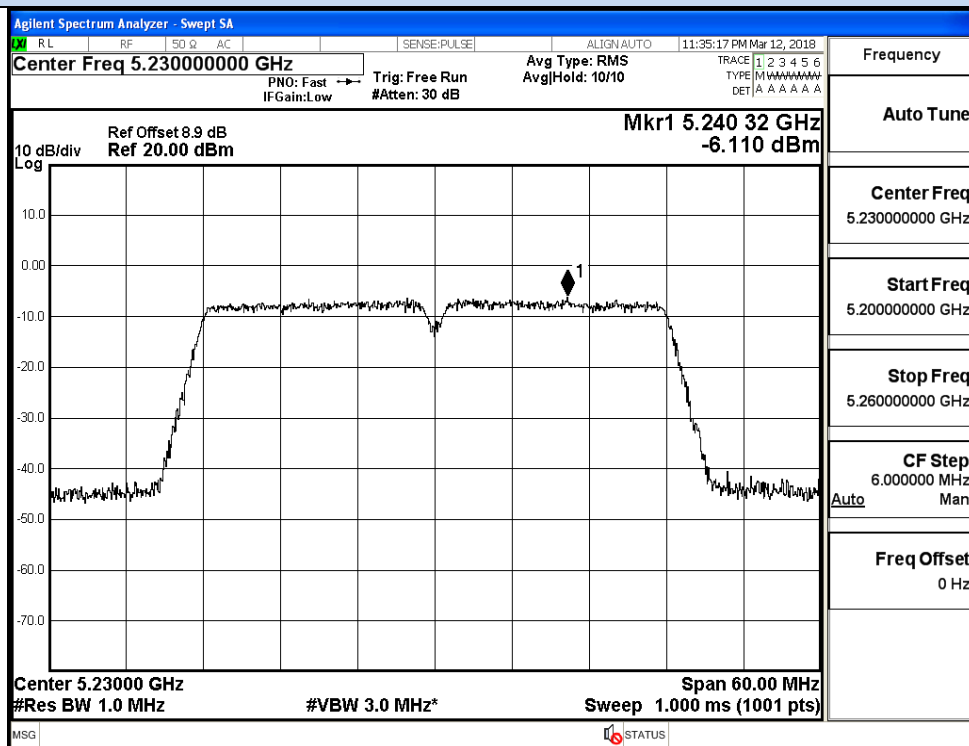
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



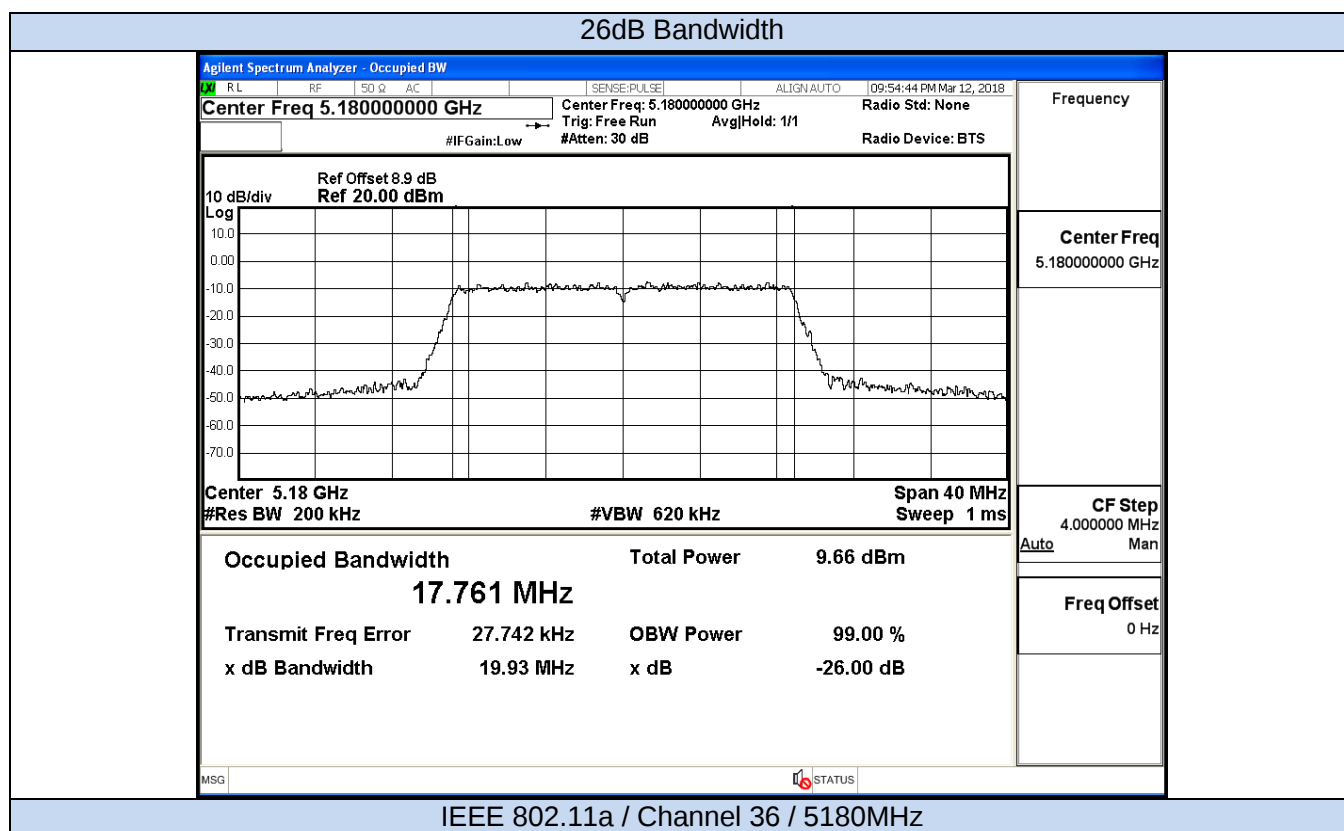
IEEE 802.11ac40 / Channel 38 / 5190MHz

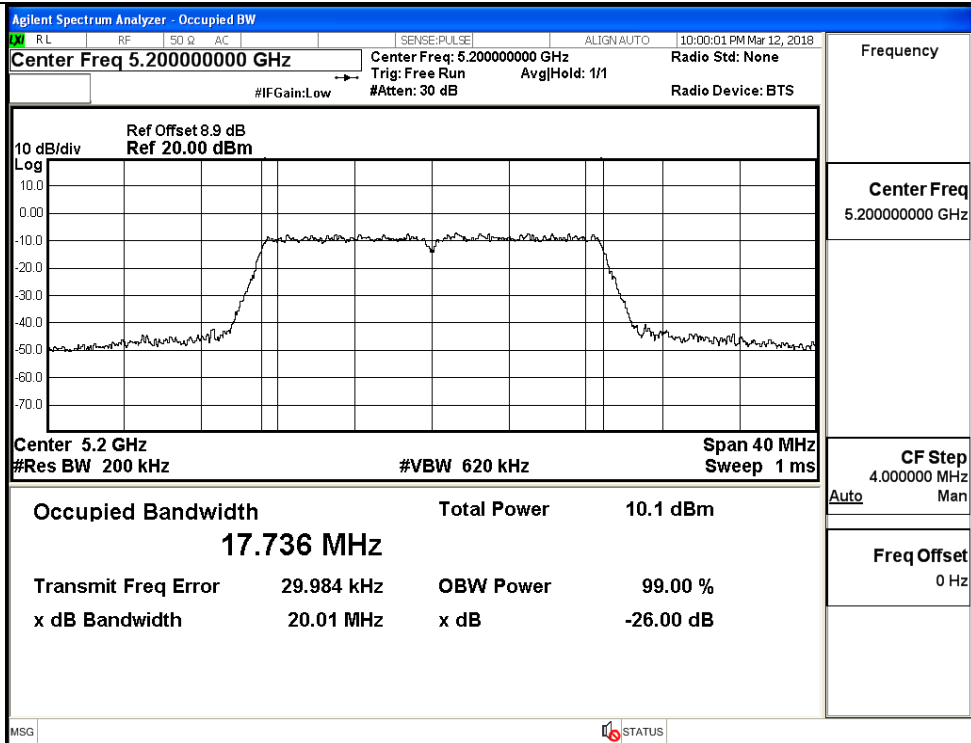


IEEE 802.11ac40 / Channel 46 / 5230MHz

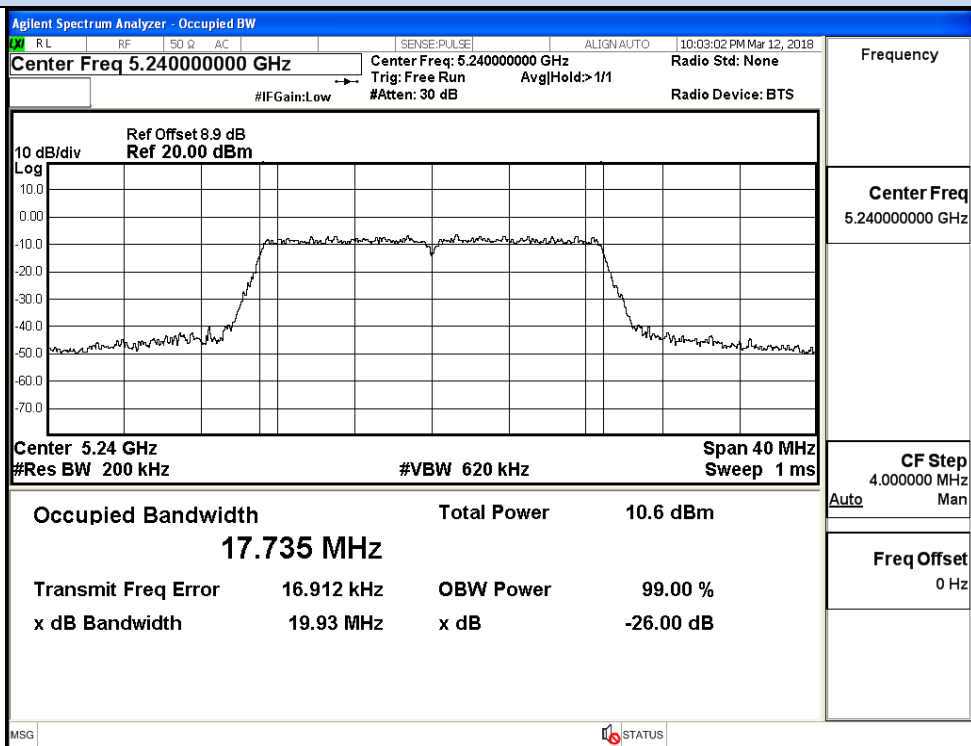
D.3 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	19.93	17.761	No Limit	Pass
	40	5200	20.01	17.736		Pass
	48	5240	19.93	17.735		Pass
11N20 SISO	36	5180	20.12	17.760	No Limit	Pass
	40	5200	20.04	17.749		Pass
	48	5240	19.93	17.734		Pass
11N40 SISO	38	5190	39.92	36.235	No Limit	Pass
	46	5230	40.03	36.197		Pass
11AC20 SISO	36	5180	20.01	17.735	No Limi	Pass
	40	5200	19.92	17.735		Pass
	48	5240	19.99	17.740		Pass
11AC40 SISO	38	5190	39.98	36.170	No Limi	Pass
	46	5230	39.94	36.177		Pass



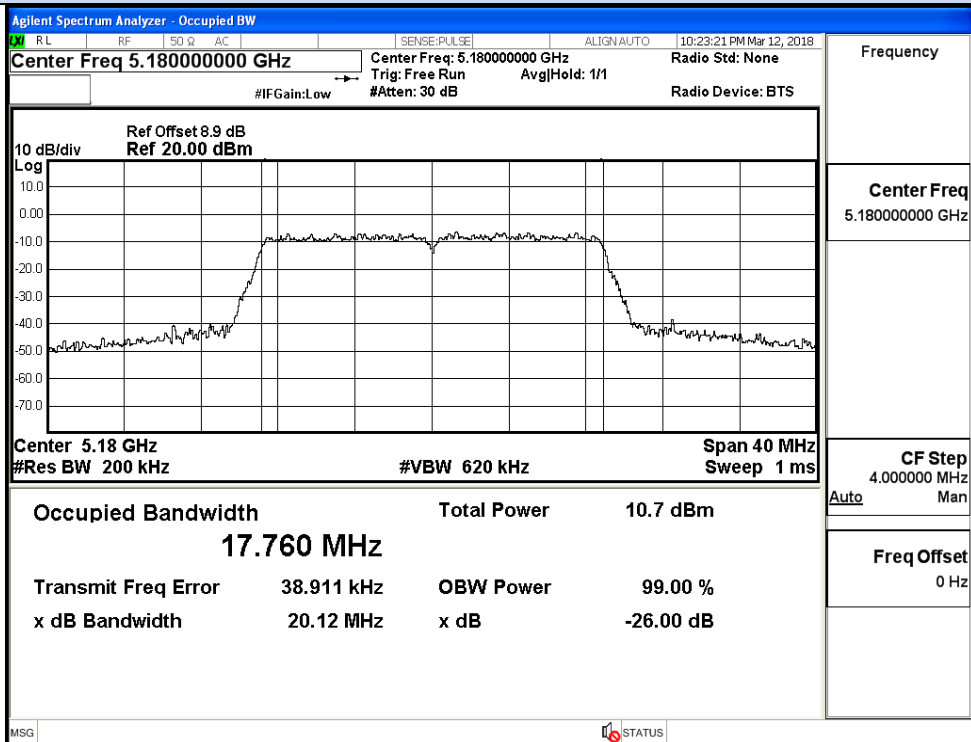


IEEE 802.11a / Channel 40 / 5200MHz

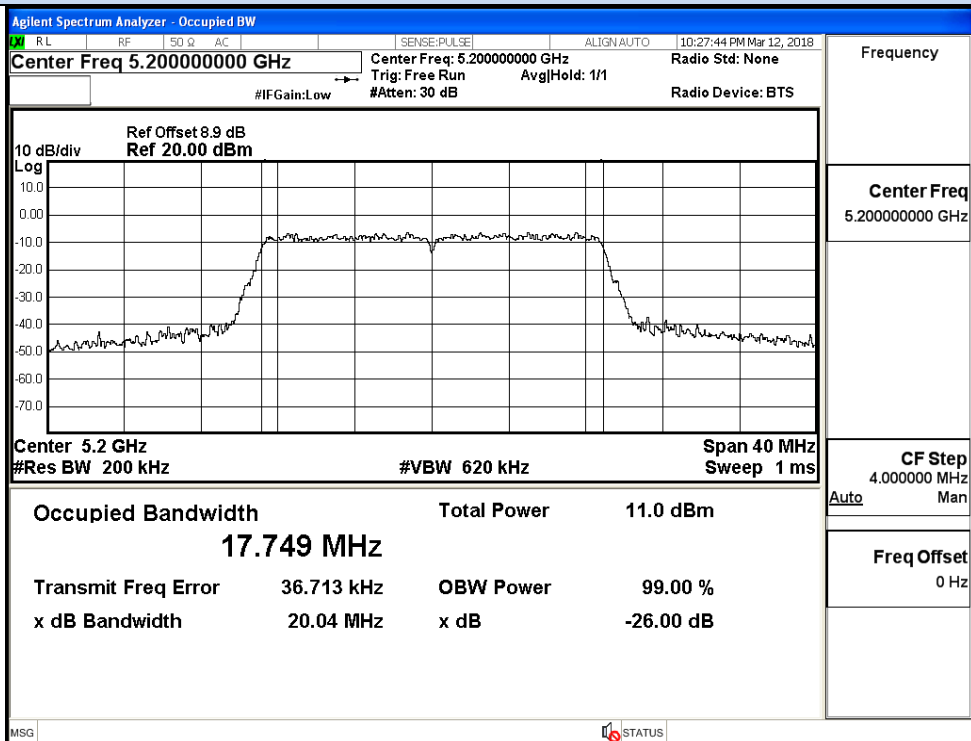


IEEE 802.11a / Channel 48 / 5240MHz

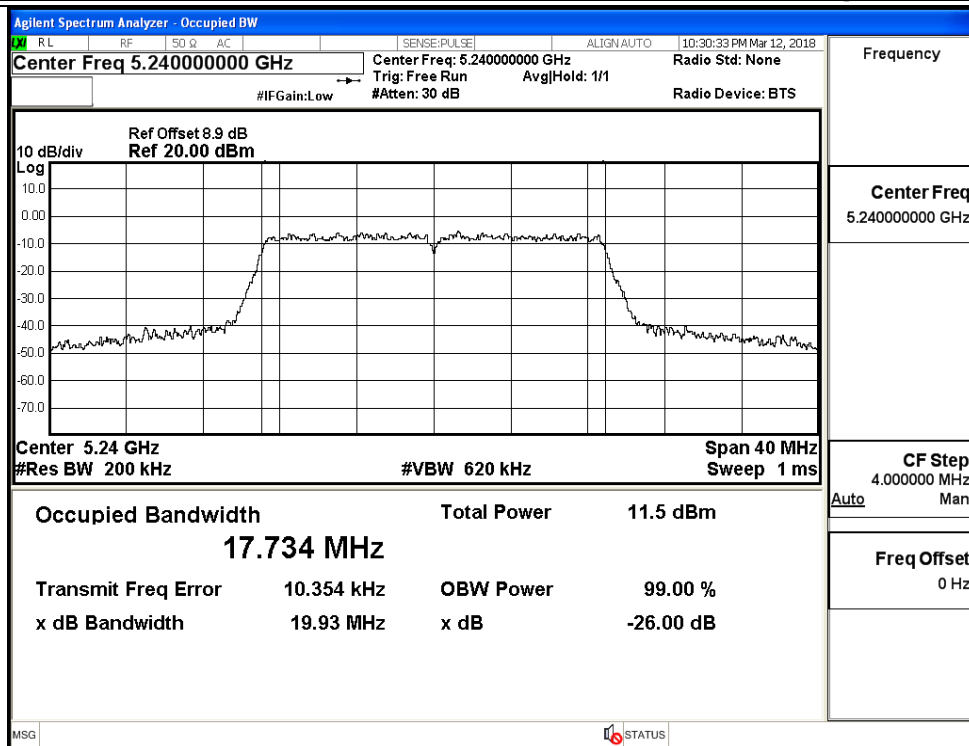
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

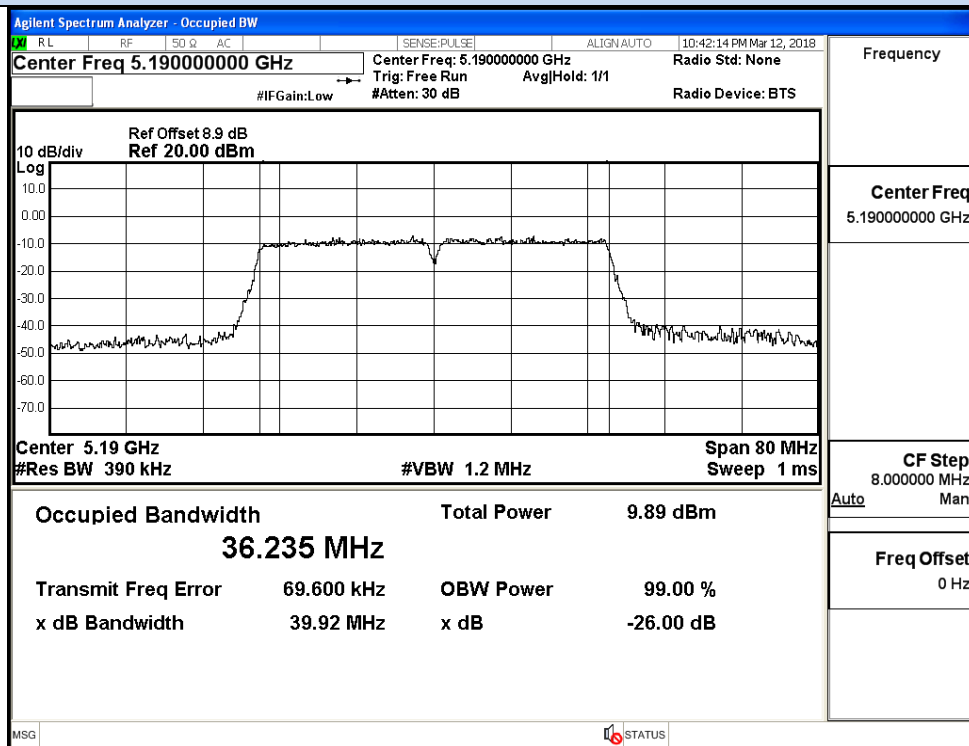


IEEE 802.11n20 / Channel 40 / 5200MHz

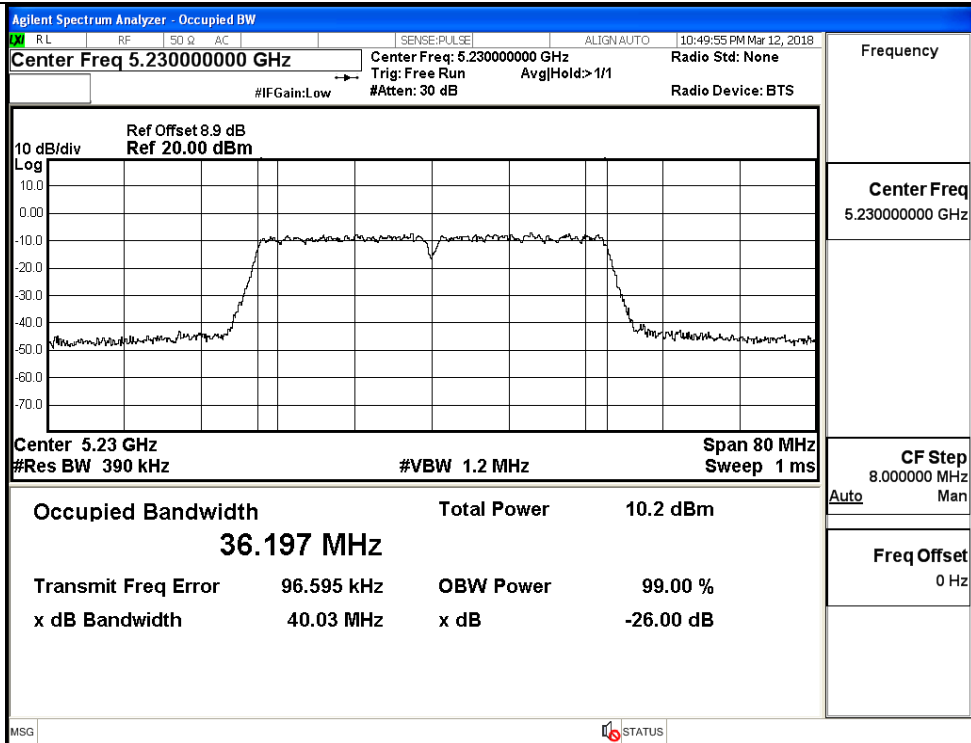


IEEE 802.11n20 / Channel 48 / 5240MHz

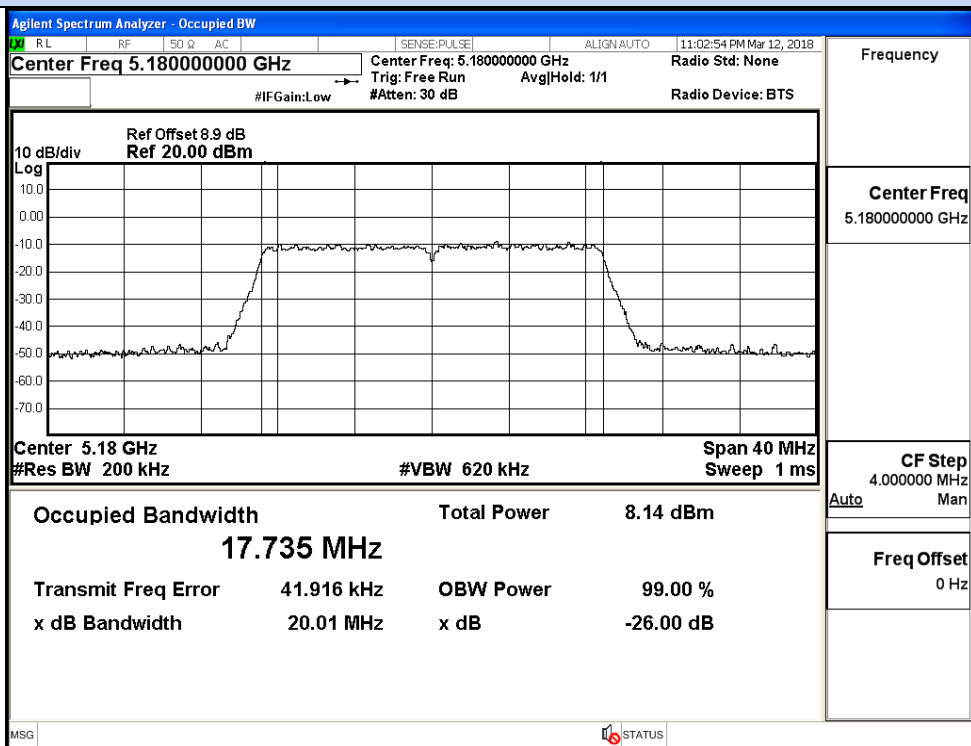
26dB Bandwidth



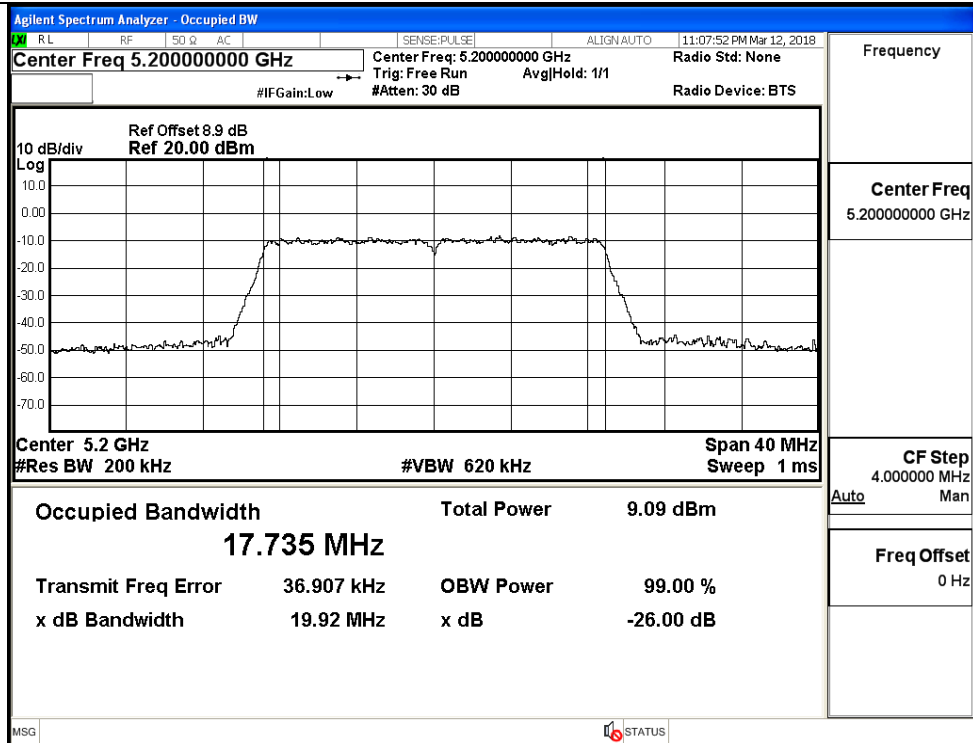
IEEE 802.11n40 / Channel 38 / 5190MHz



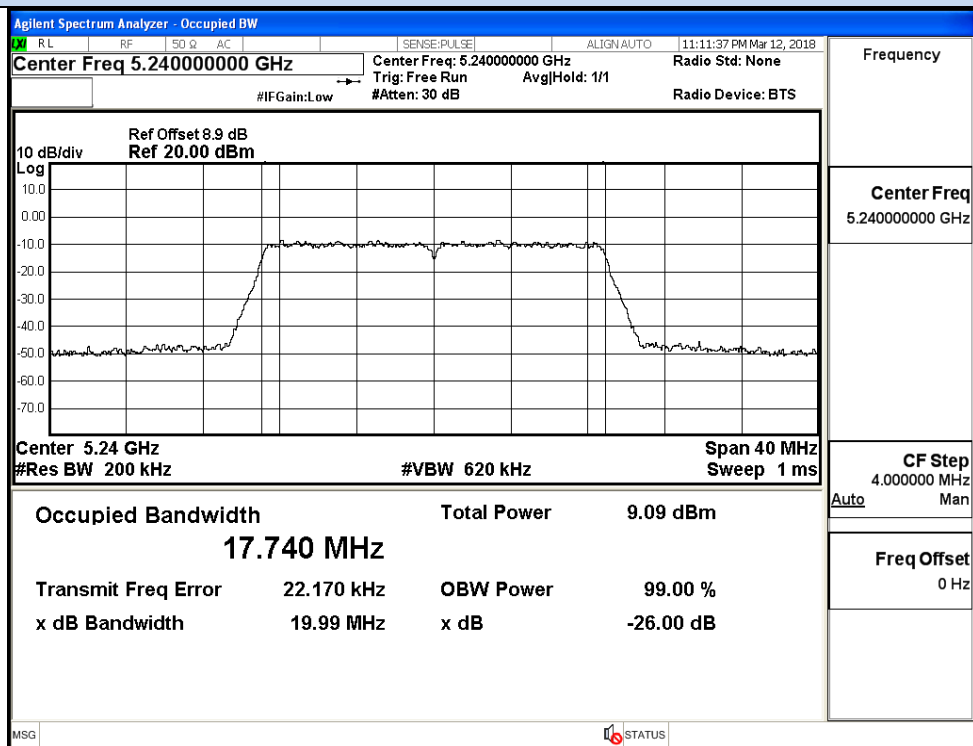
IEEE 802.11n40 / Channel 46 / 5230MHz



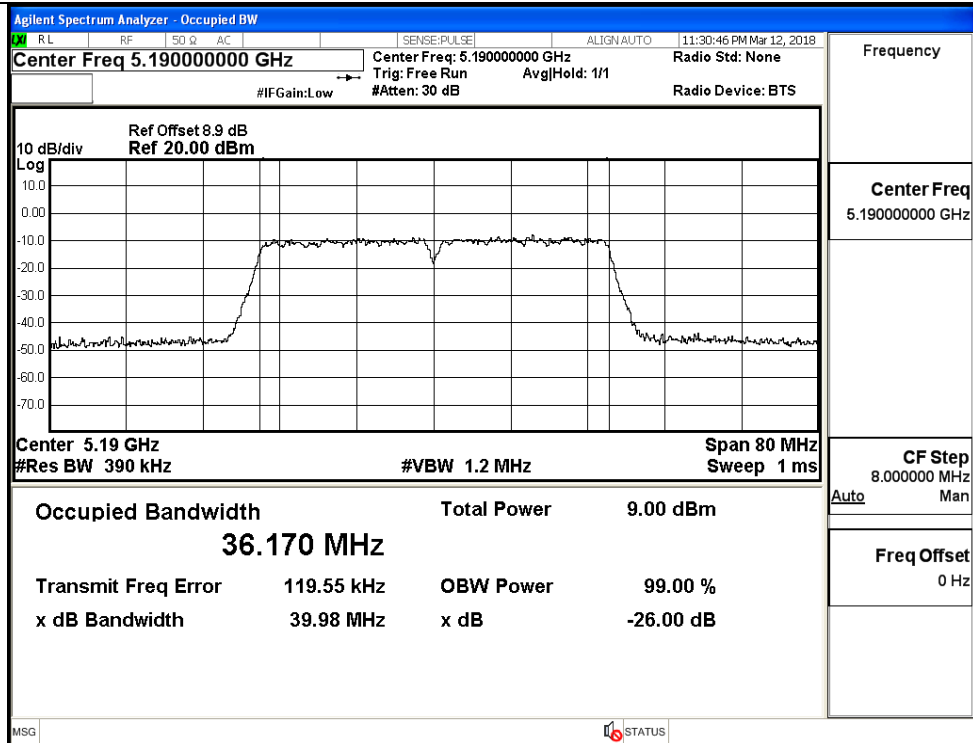
IEEE 802.11ac20 / Channel 36 / 5180MHz



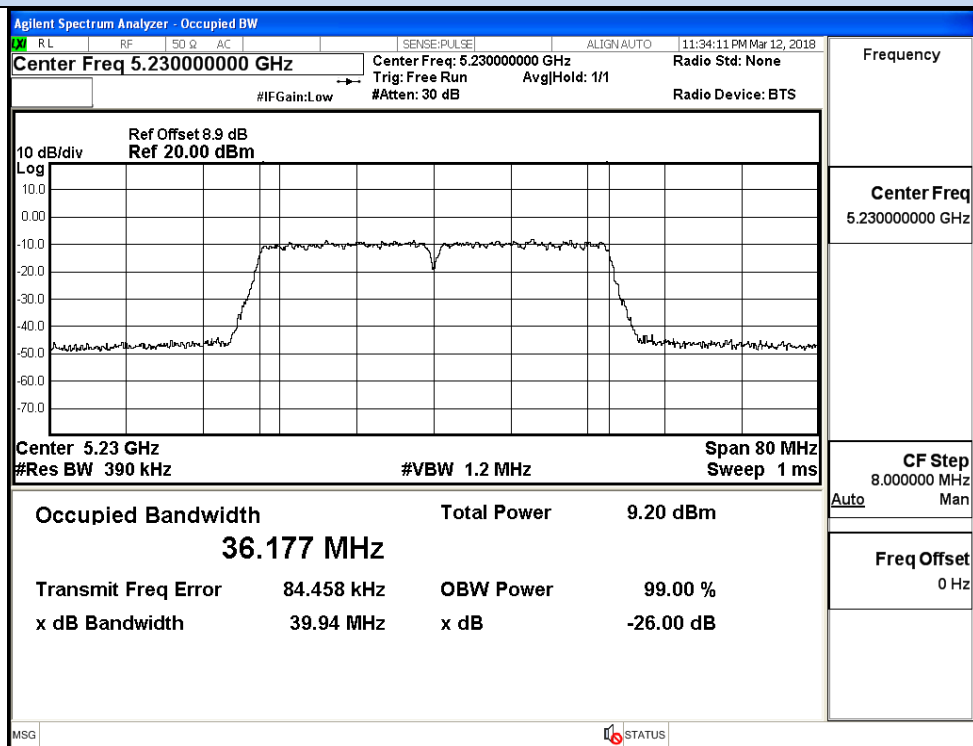
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz

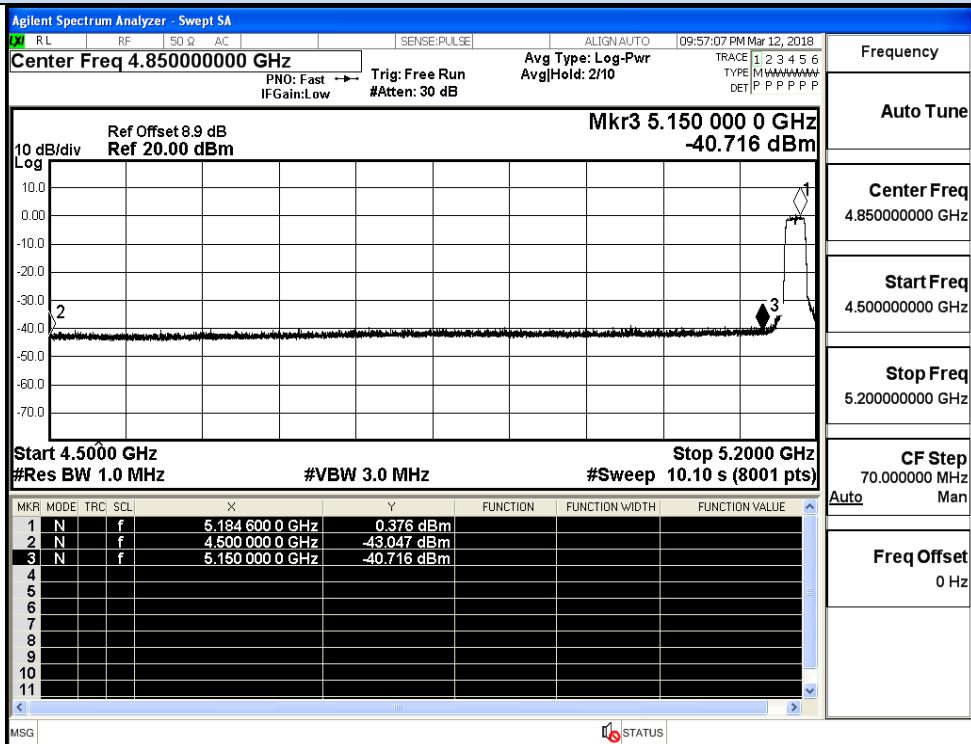


IEEE 802.11ac40 / Channel 46 / 5230MHz

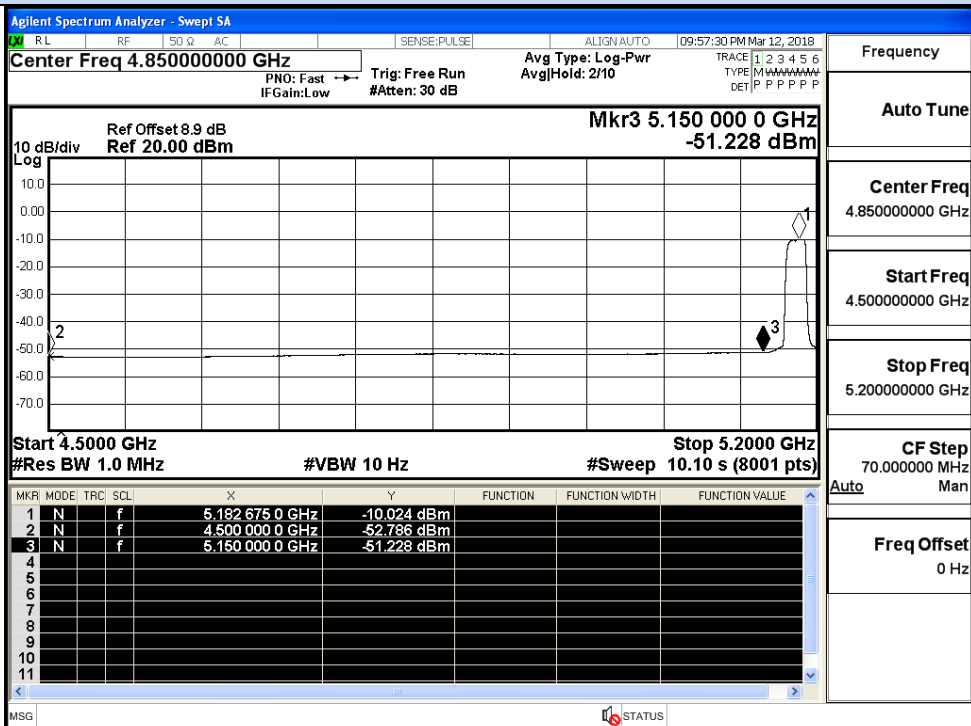
D.4 Undesirable Emissions Measurement

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)	Verdict
11A	36	4500.0	-43.05	2.00	0	52.18	Peak	74.00	Pass
		4500.0	-52.79	2.00	0	42.44	Average	54.00	Pass
		5150.0	-40.72	2.00	0	54.51	Peak	74.00	Pass
		5150.0	-51.23	2.00	0	44.00	Average	54.00	Pass
	48	5350.0	-42.60	2.00	0	52.63	Peak	74.00	Pass
		5350.0	-52.80	2.00	0	42.43	Average	54.00	Pass
		5460.0	-42.32	2.00	0	52.91	Peak	74.00	Pass
		5460.0	-53.09	2.00	0	42.14	Average	54.00	Pass
11N2 0 SISO	36	4500.0	-41.35	2.00	0	53.88	Peak	74.00	Pass
		4500.0	-52.79	2.00	0	42.44	Average	54.00	Pass
		5150.0	-41.70	2.00	0	53.52	Peak	74.00	Pass
		5150.0	-51.07	2.00	0	44.16	Average	54.00	Pass
	48	5350.0	-42.09	2.00	0	53.14	Peak	74.00	Pass
		5350.0	-52.81	2.00	0	42.42	Average	54.00	Pass
		5460.0	-42.62	2.00	0	52.61	Peak	74.00	Pass
		5460.0	-53.04	2.00	0	42.19	Average	54.00	Pass
11N4 0 SISO	38	4500.0	-43.08	2.00	0	52.15	Peak	74.00	Pass
		4500.0	-52.74	2.00	0	42.48	Average	54.00	Pass
		5150.0	-41.23	2.00	0	53.99	Peak	74.00	Pass
		5150.0	-51.05	2.00	0	44.18	Average	54.00	Pass
	46	5350.0	-42.22	2.00	0	53.00	Peak	74.00	Pass
		5350.0	-52.52	2.00	0	42.71	Average	54.00	Pass
		5460.0	-42.51	2.00	0	52.72	Peak	74.00	Pass
		5460.0	-52.80	2.00	0	42.43	Average	54.00	Pass
11A C20 SIS O	36	4500.0	-42.37	2.00	0	52.86	Peak	74.00	Pass
		4500.0	-52.77	2.00	0	42.46	Average	54.00	Pass
		5150.0	-41.22	2.00	0	54.01	Peak	74.00	Pass
		5150.0	-51.22	2.00	0	44.01	Average	54.00	Pass
	48	4500.0	-42.37	2.00	0	52.86	Peak	74.00	Pass
		4500.0	-52.77	2.00	0	42.46	Average	54.00	Pass
		5150.0	-41.22	2.00	0	54.01	Peak	74.00	Pass
		5150.0	-51.22	2.00	0	44.01	Average	54.00	Pass
11A C40 SIS O	38	4500.0	-42.06	2.00	0	53.17	Peak	74.00	Pass
		4500.0	-52.76	2.00	0	42.47	Average	54.00	Pass
		5150.0	-40.00	2.00	0	55.23	Peak	74.00	Pass
		5150.0	-51.05	2.00	0	44.18	Average	54.00	Pass
	46	5350.0	-42.23	2.00	0	52.99	Peak	74.00	Pass
		5350.0	-52.53	2.00	0	42.70	Average	54.00	Pass
		5460.0	-42.51	2.00	0	52.71	Peak	74.00	Pass
		5460.0	-52.79	2.00	0	42.44	Average	54.00	Pass

Undesirable Emissions Measurement

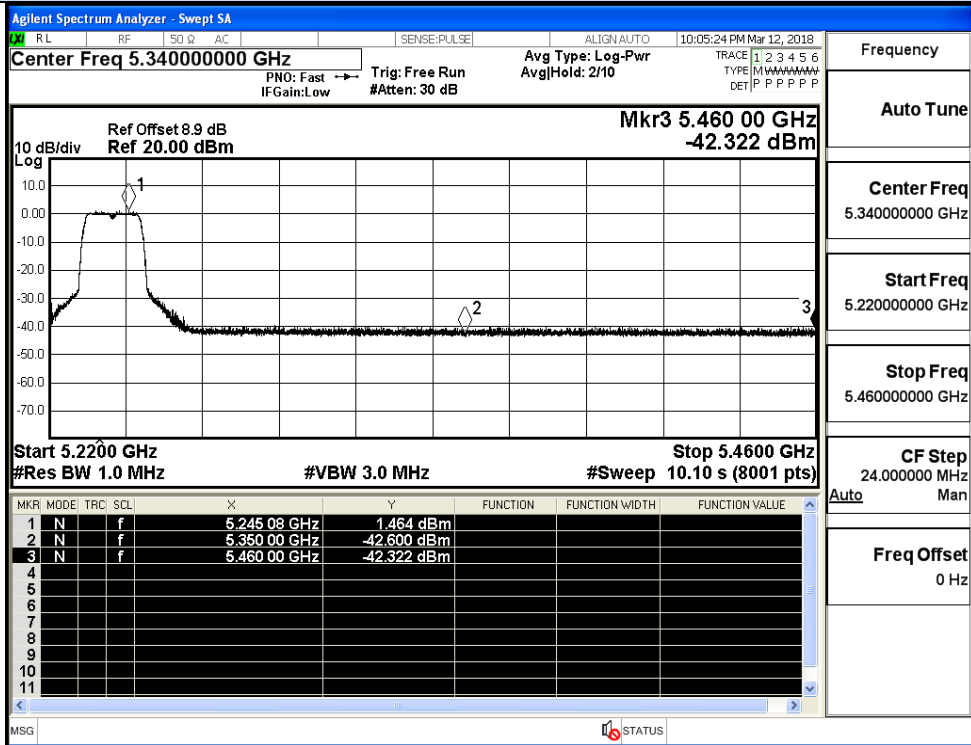


IEEE 802.11a / Channel 36 / 5180MHz / Peak

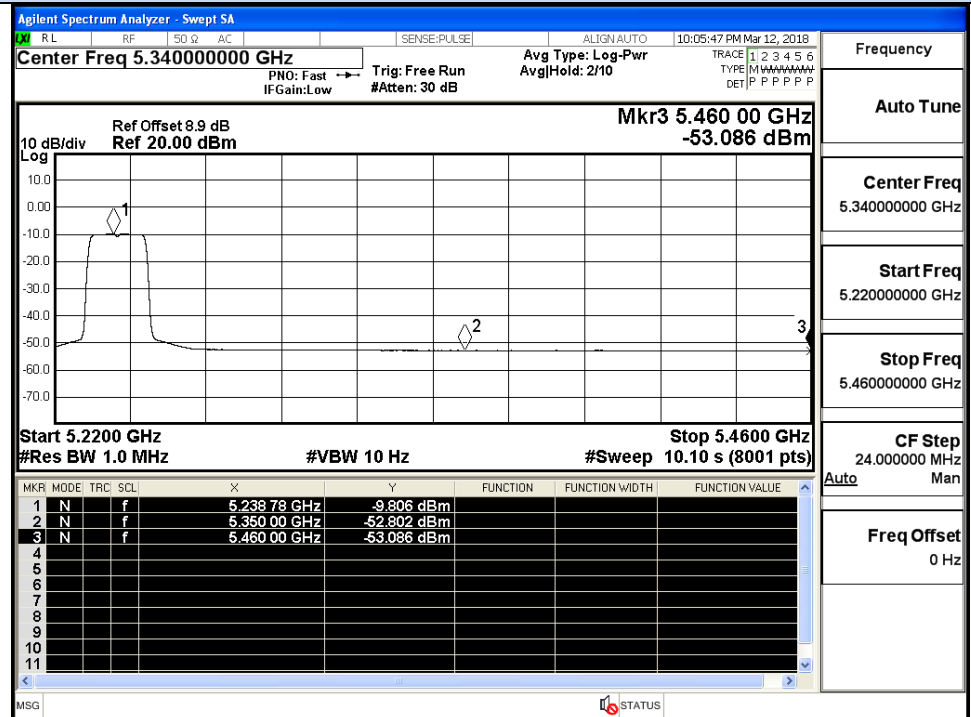


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

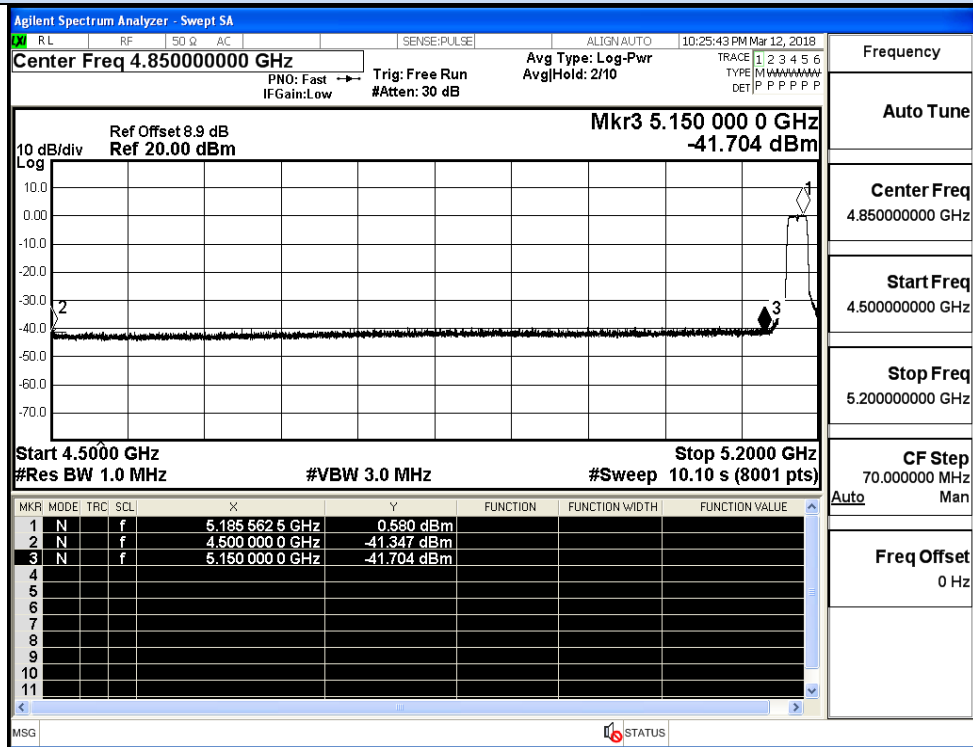


IEEE 802.11a / Channel 48 / 5240MHz / Peak

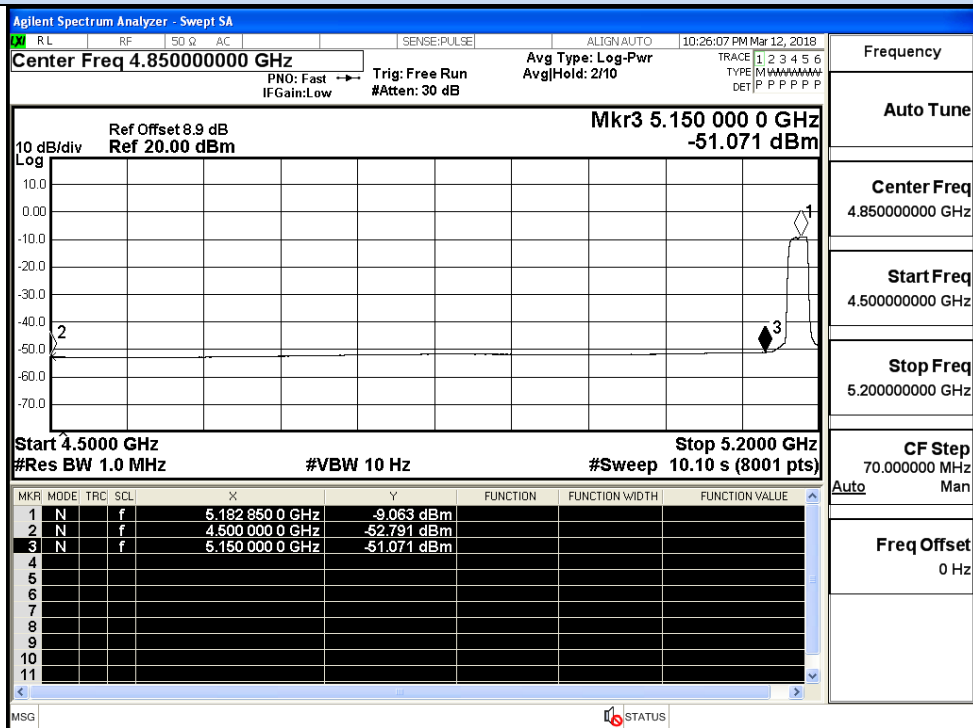


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

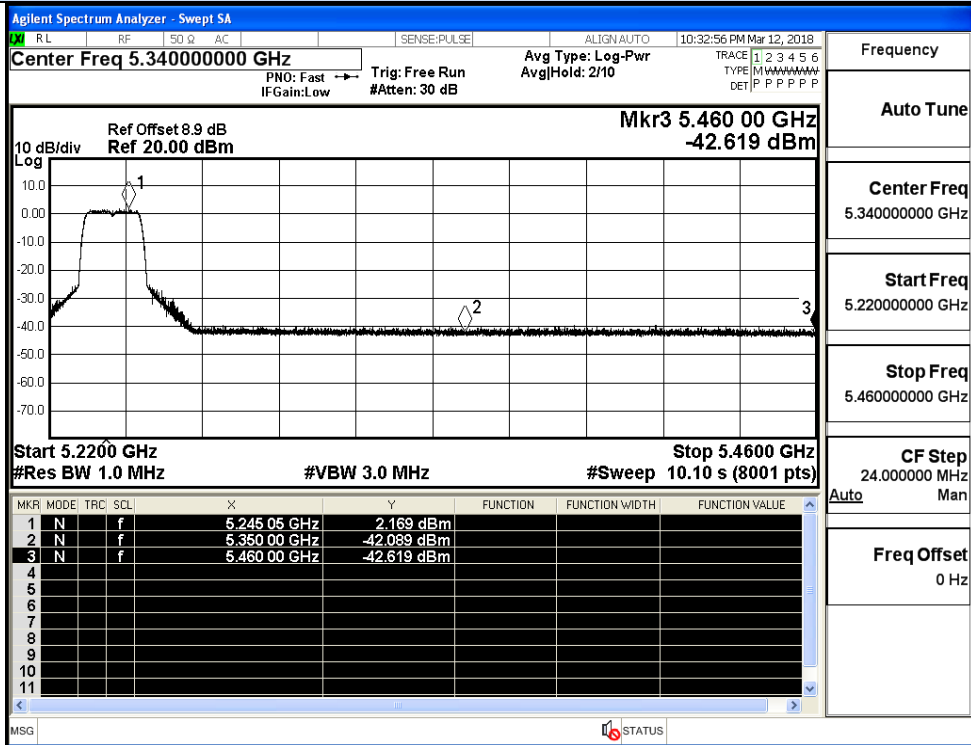


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

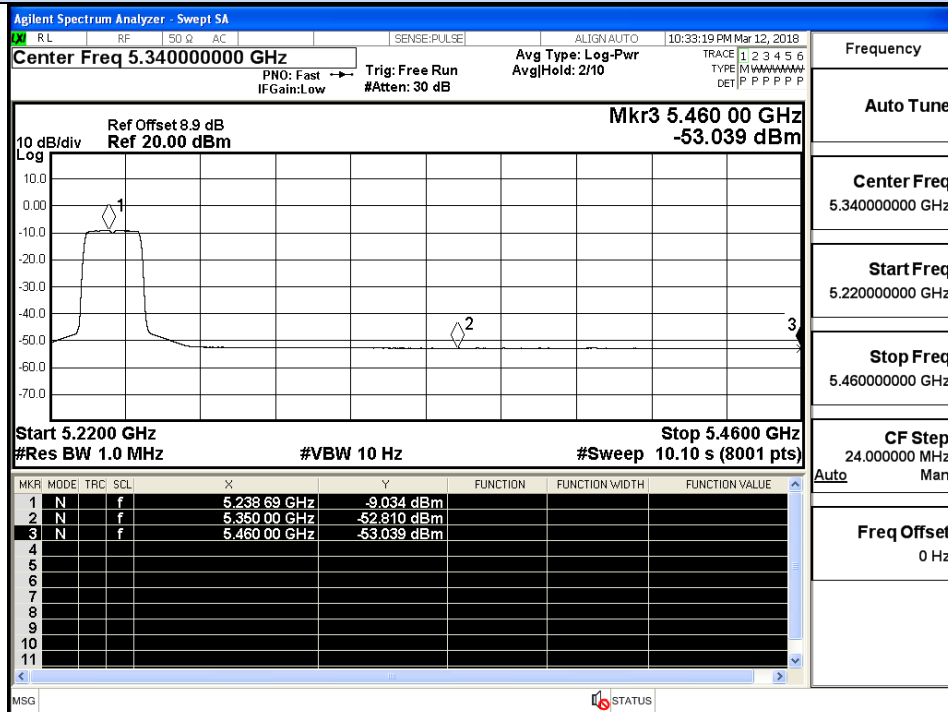


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

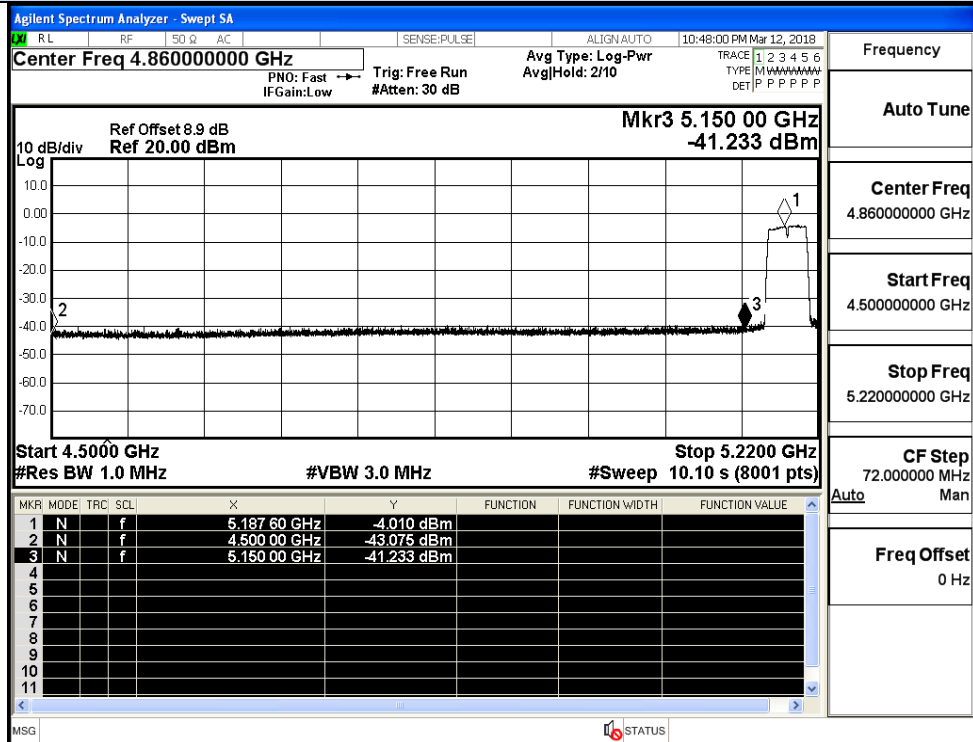


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

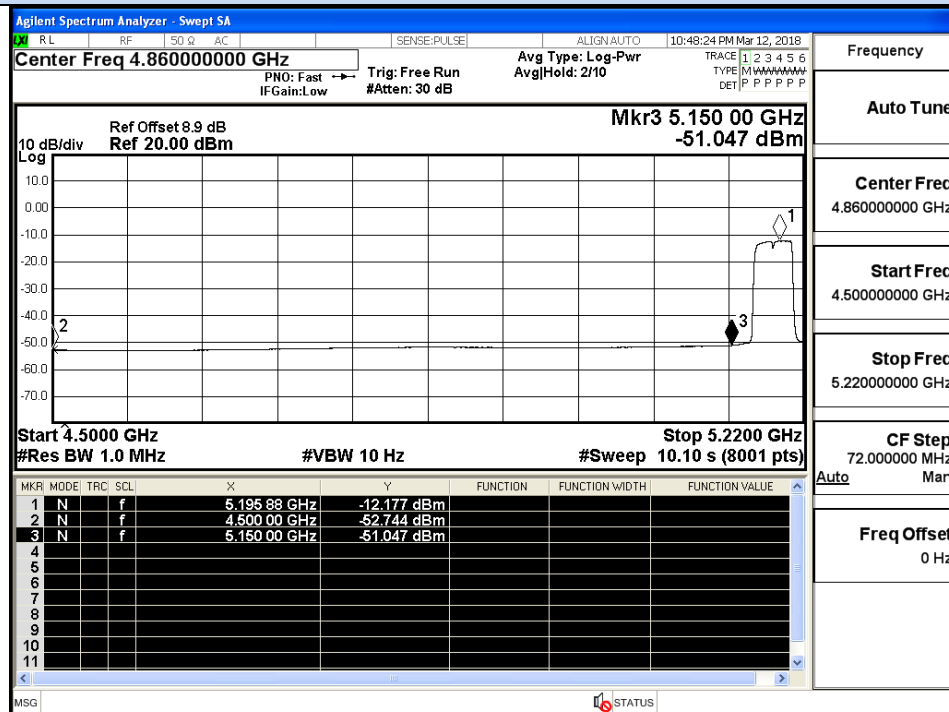


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

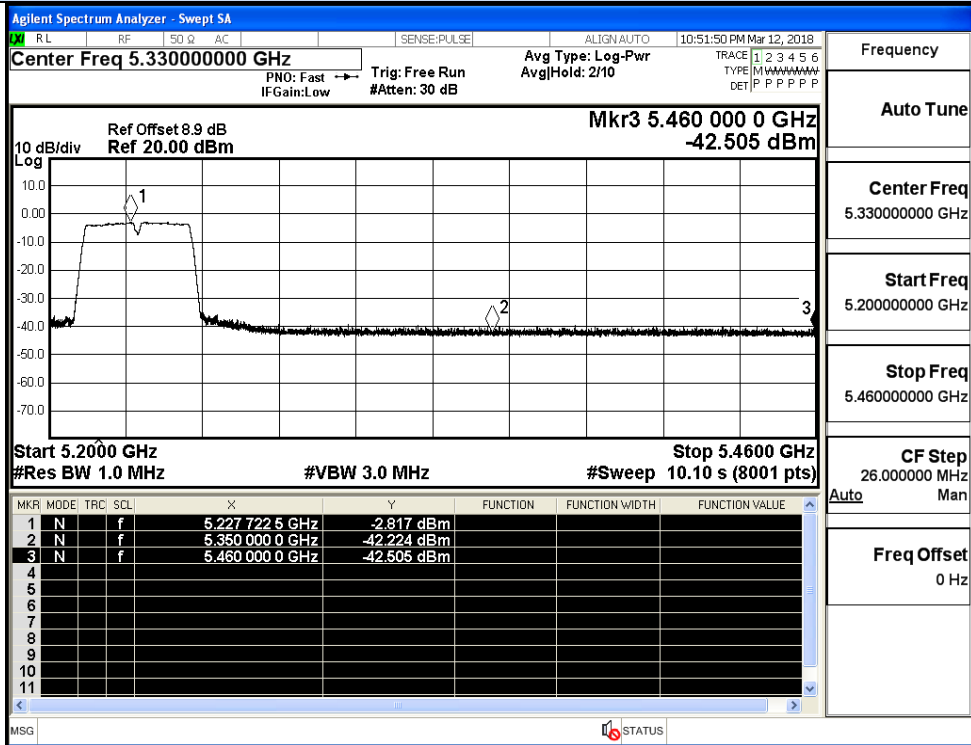


IEEE 802.11n40 / Channel 36 / 5180MHz / Peak

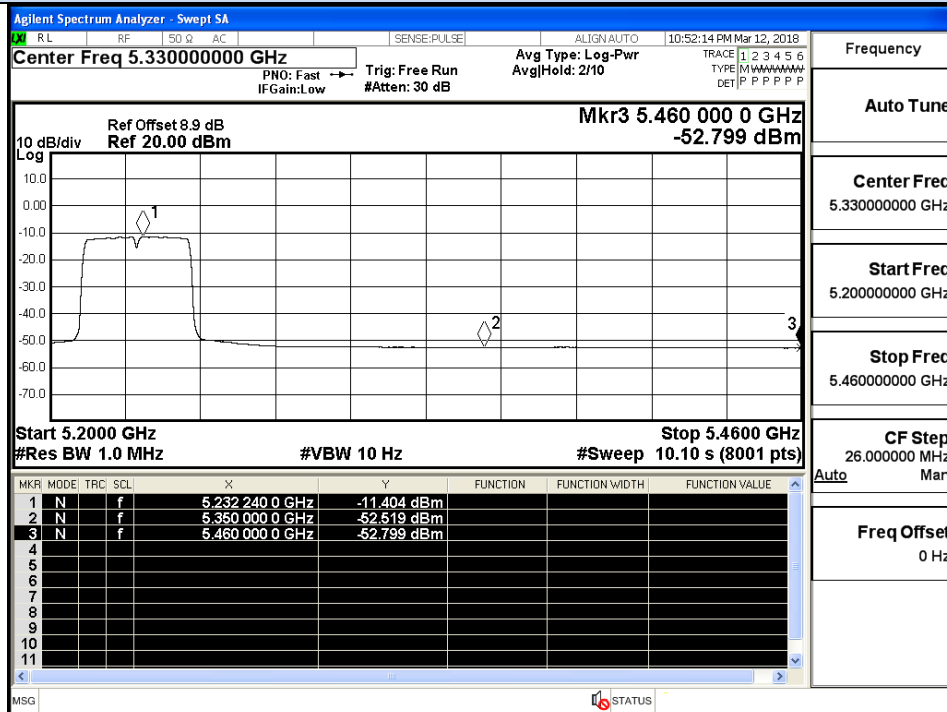


IEEE 802.11n40 / Channel 36 / 5180MHz / Average

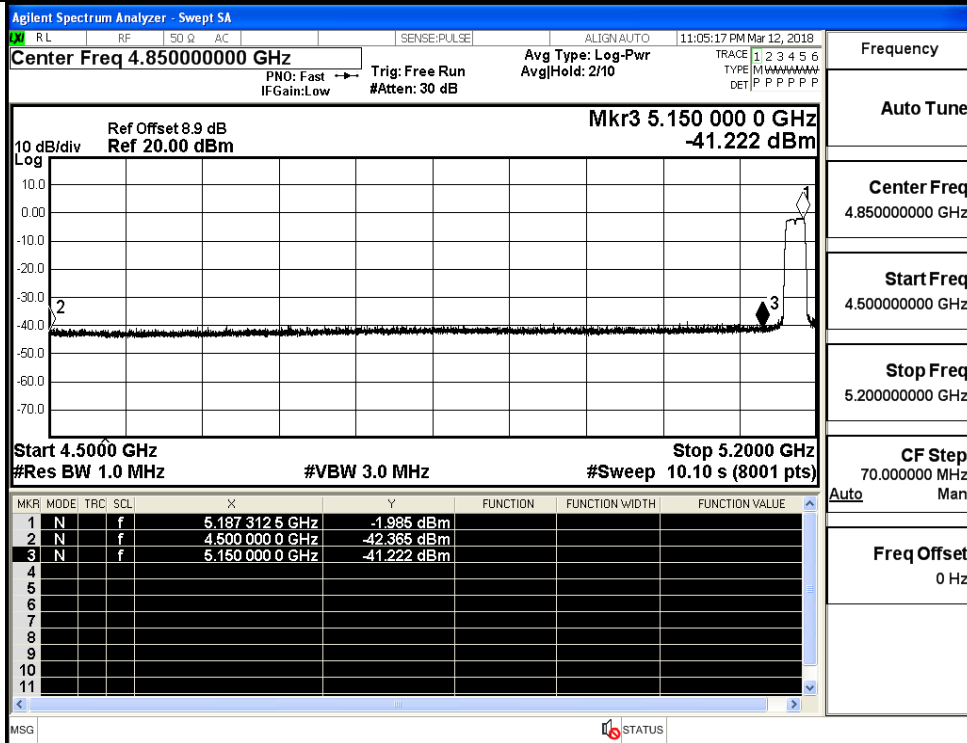
Undesirable Emissions Measurement



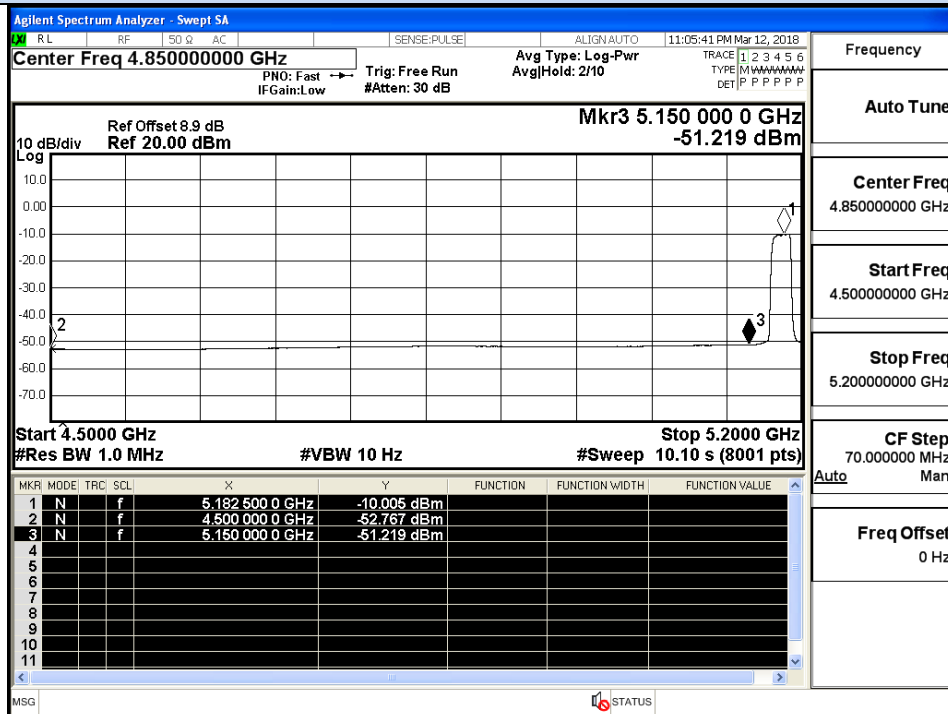
IEEE 802.11n40 / Channel 48 / 5230MHz / Peak



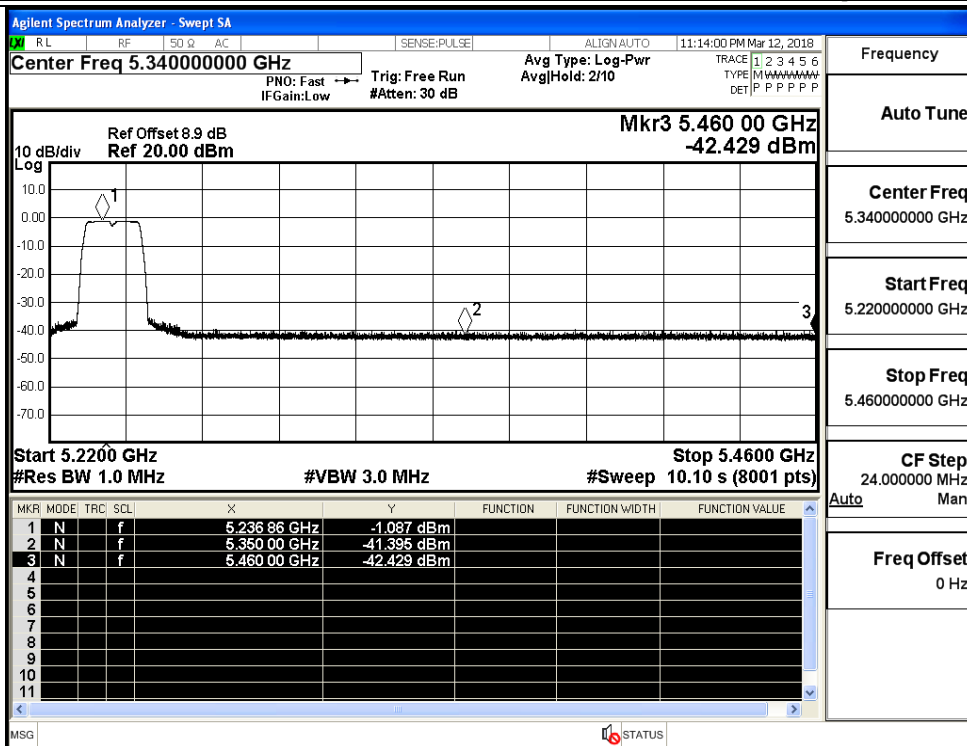
IEEE 802.11n40 / Channel 48 / 5230MHz / Average



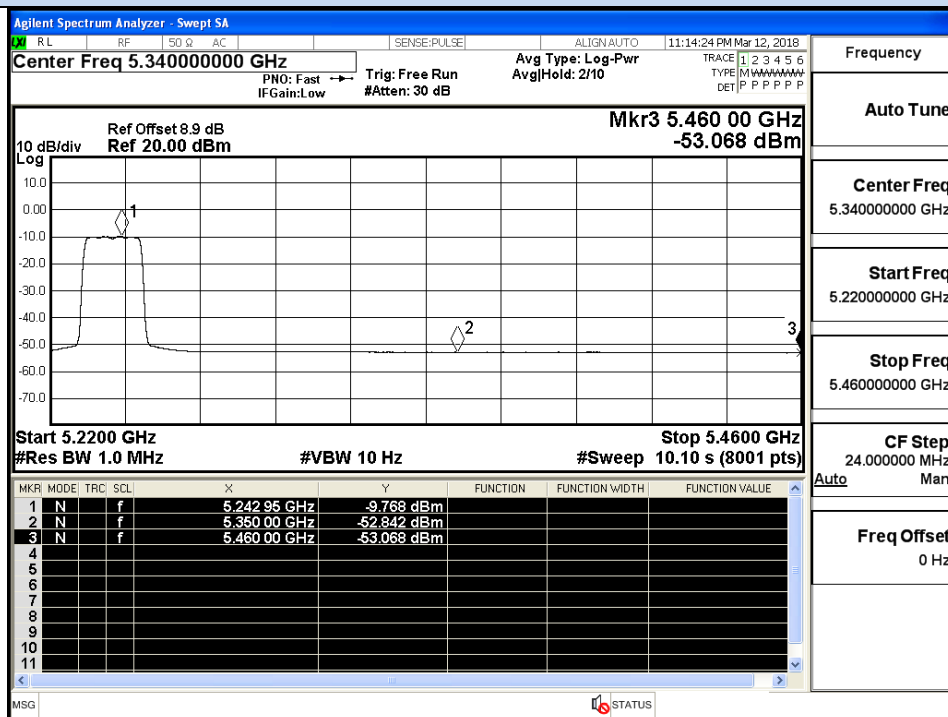
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



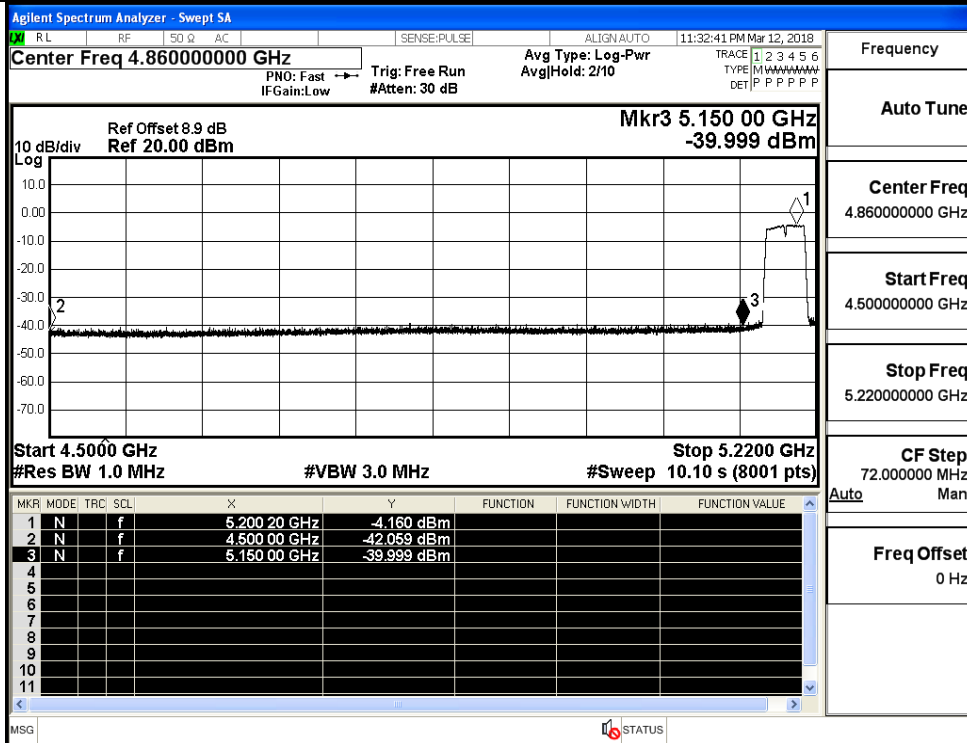
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



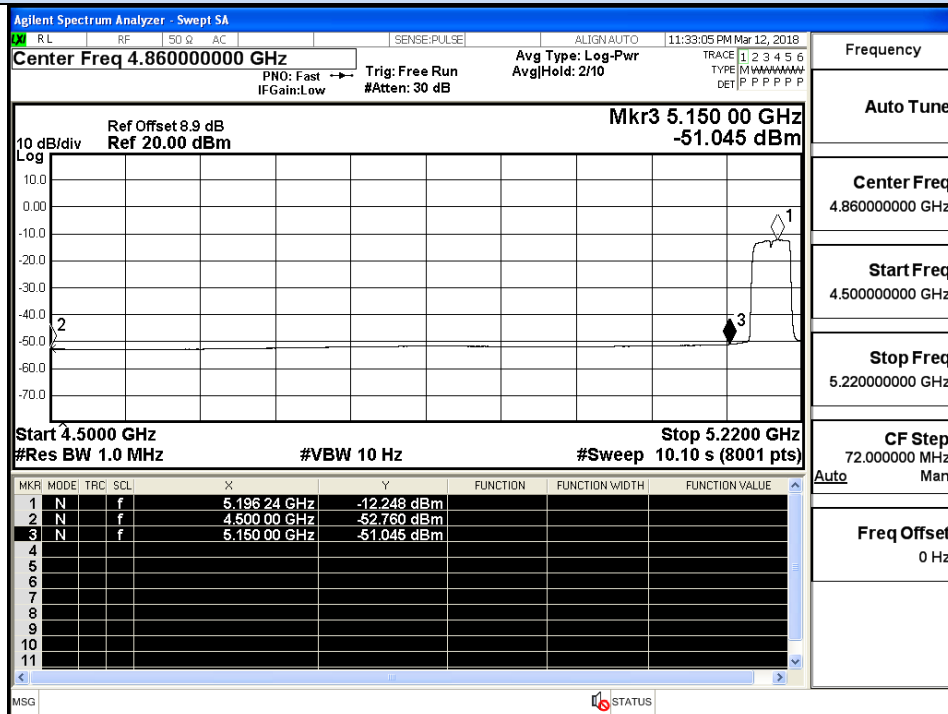
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



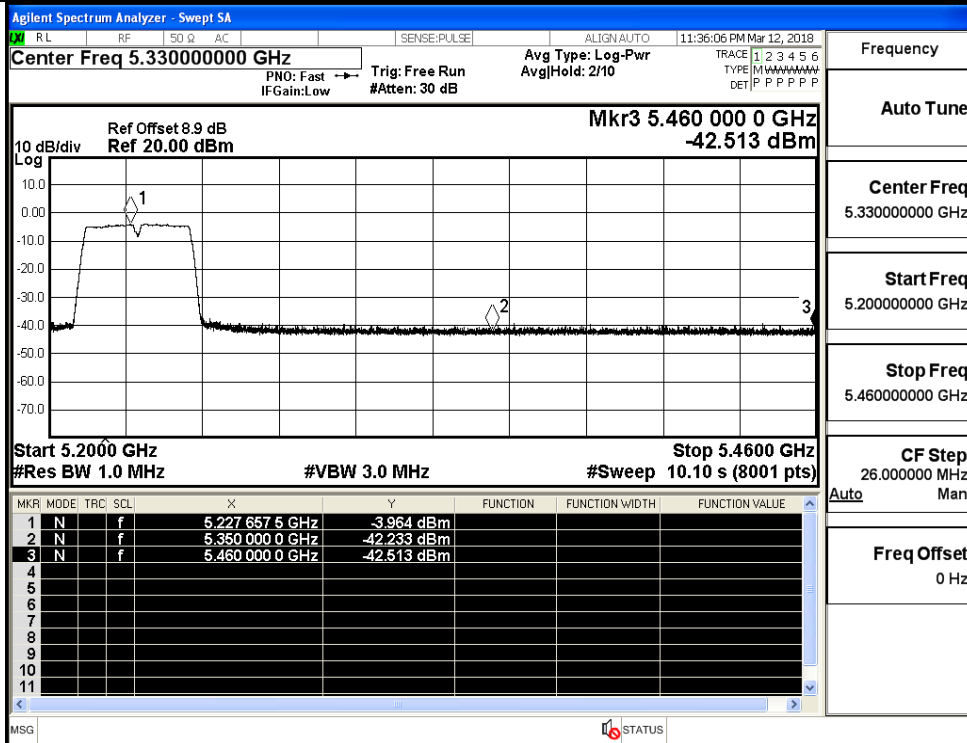
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



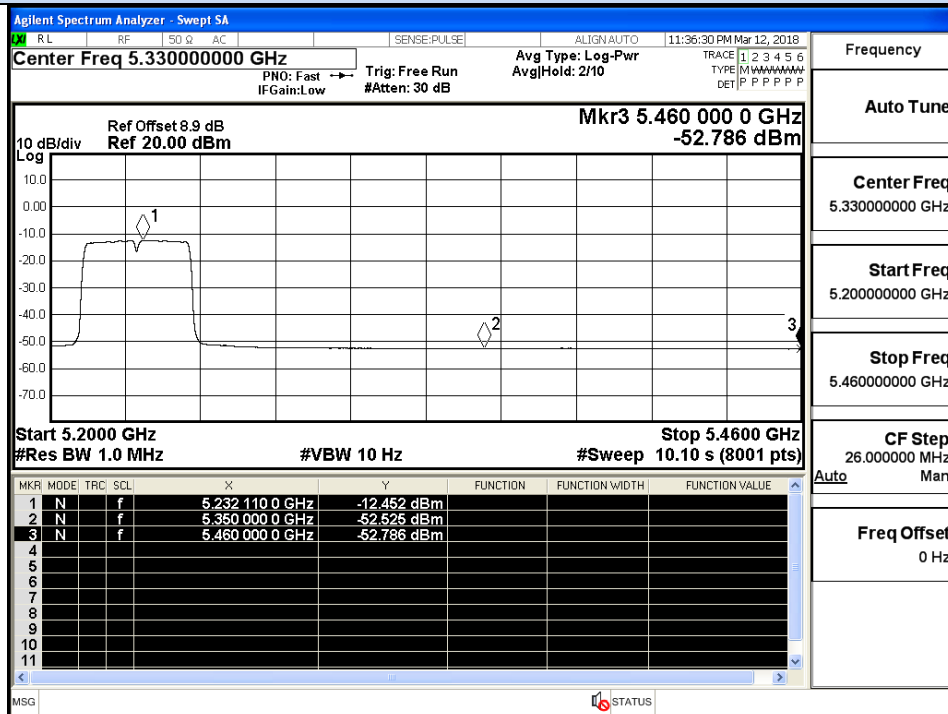
IEEE 802.11ac40 / Channel 36 / 5180MHz / Peak



IEEE 802.11ac40 / Channel 36 / 5180MHz / Average



IEEE 802.11ac40 / Channel 48 / 5230MHz / Peak



IEEE 802.11ac40 / Channel 48 / 5230MHz / Average