

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: DUNE HD Pro Vision 4K Solo

Trade Mark: DUNE HD

Test Model: Pro Vision 4K Solo

Environmental Conditions

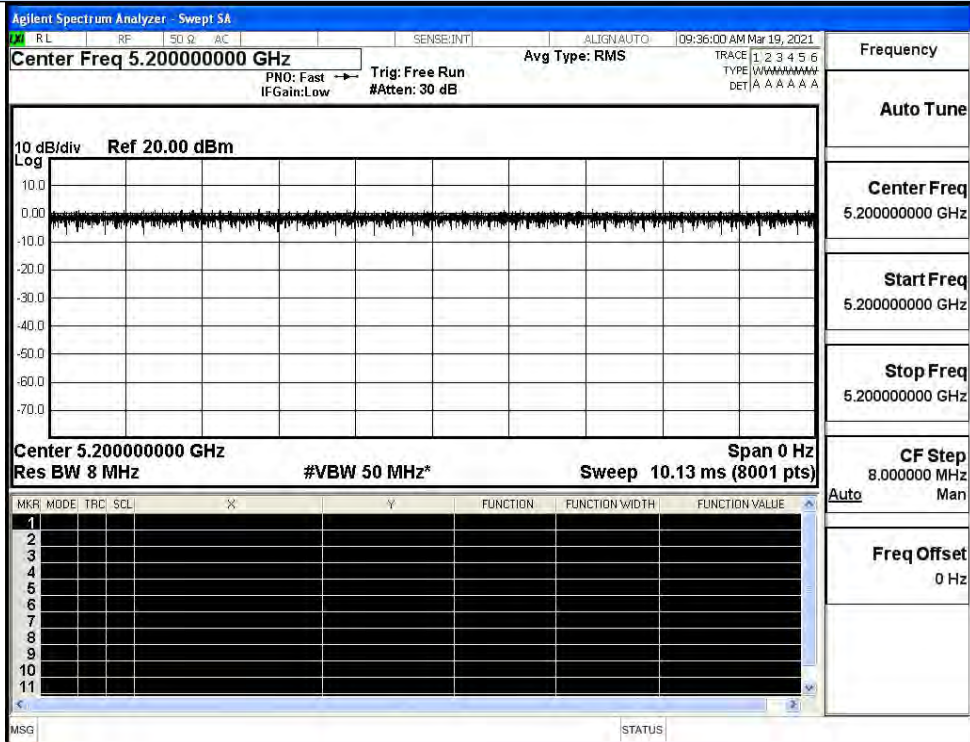
Temperature:	22.6° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

D.1 Duty Cycle

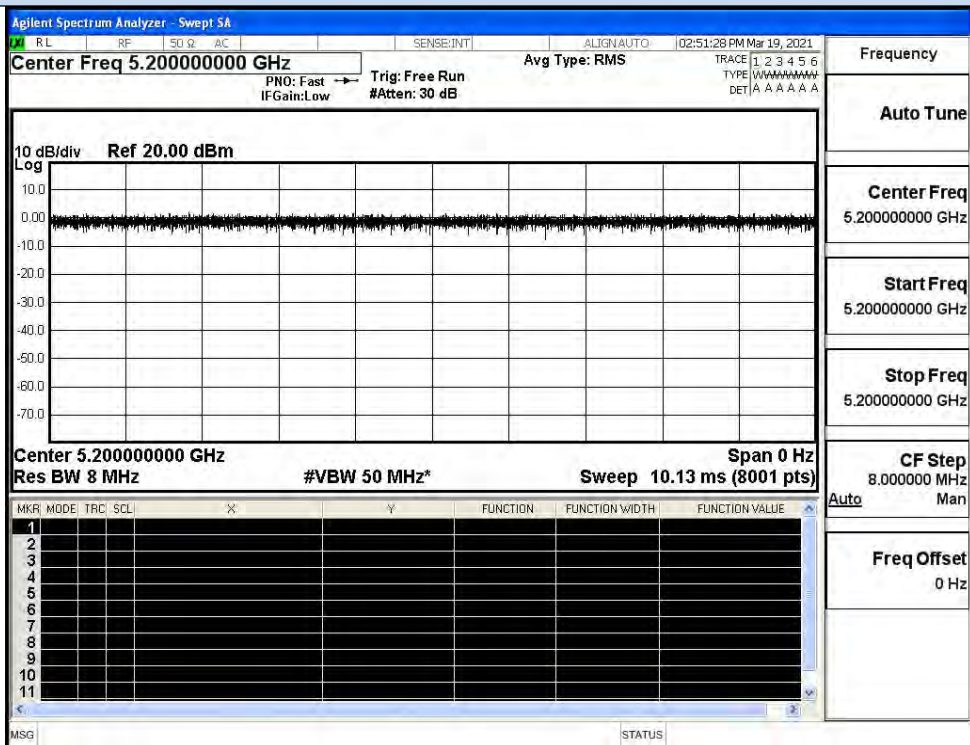
Ant0

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

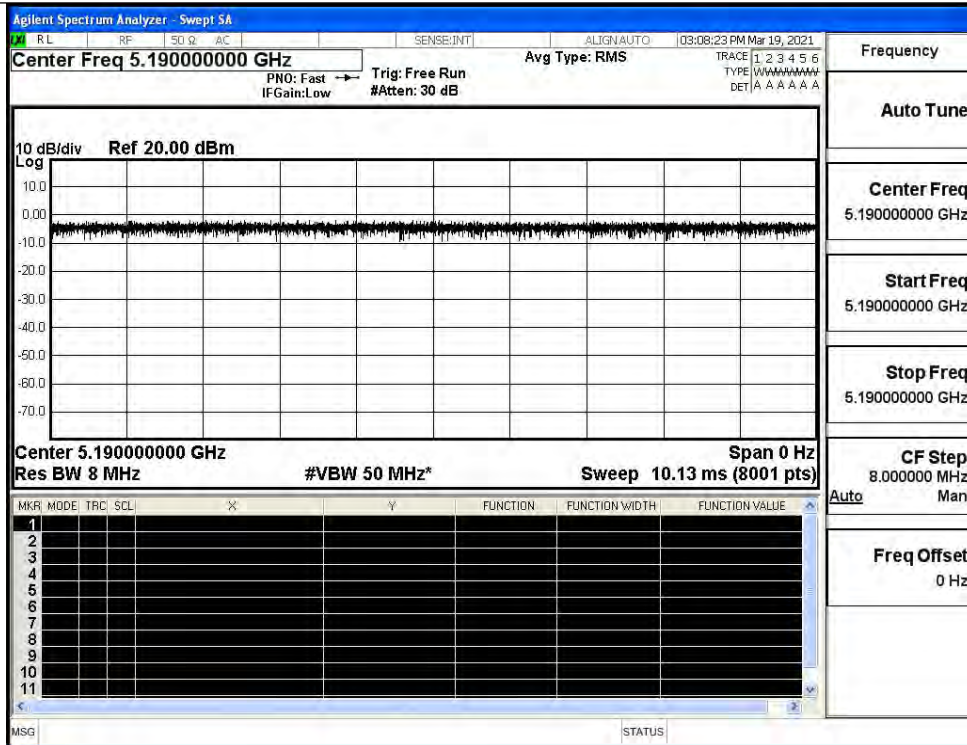
On Time and Duty Cycle



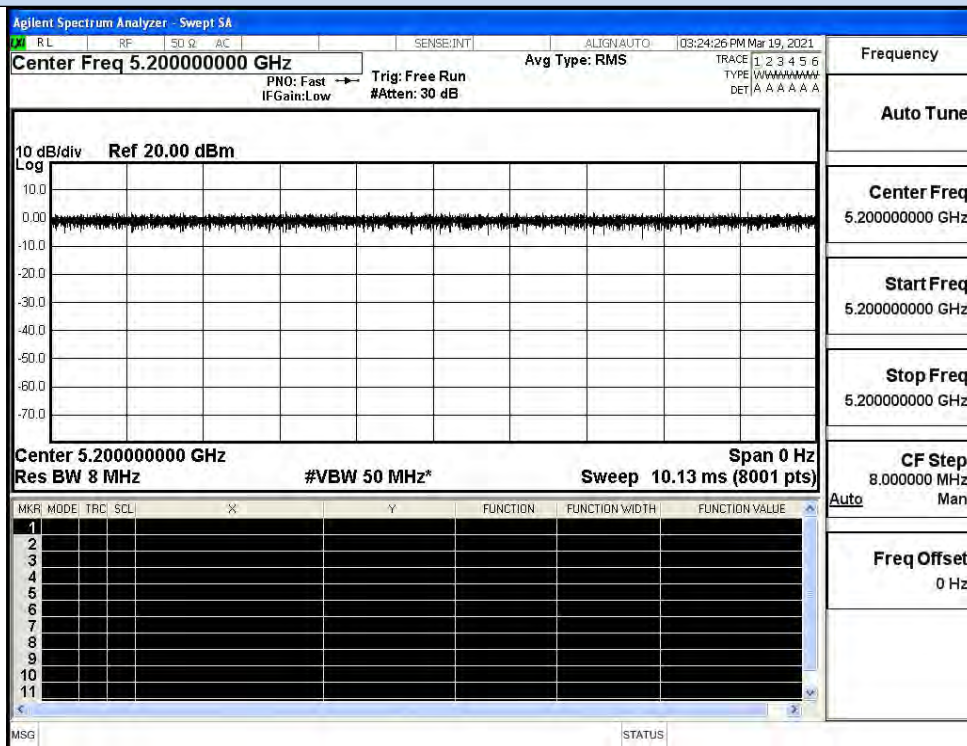
IEEE 802.11a



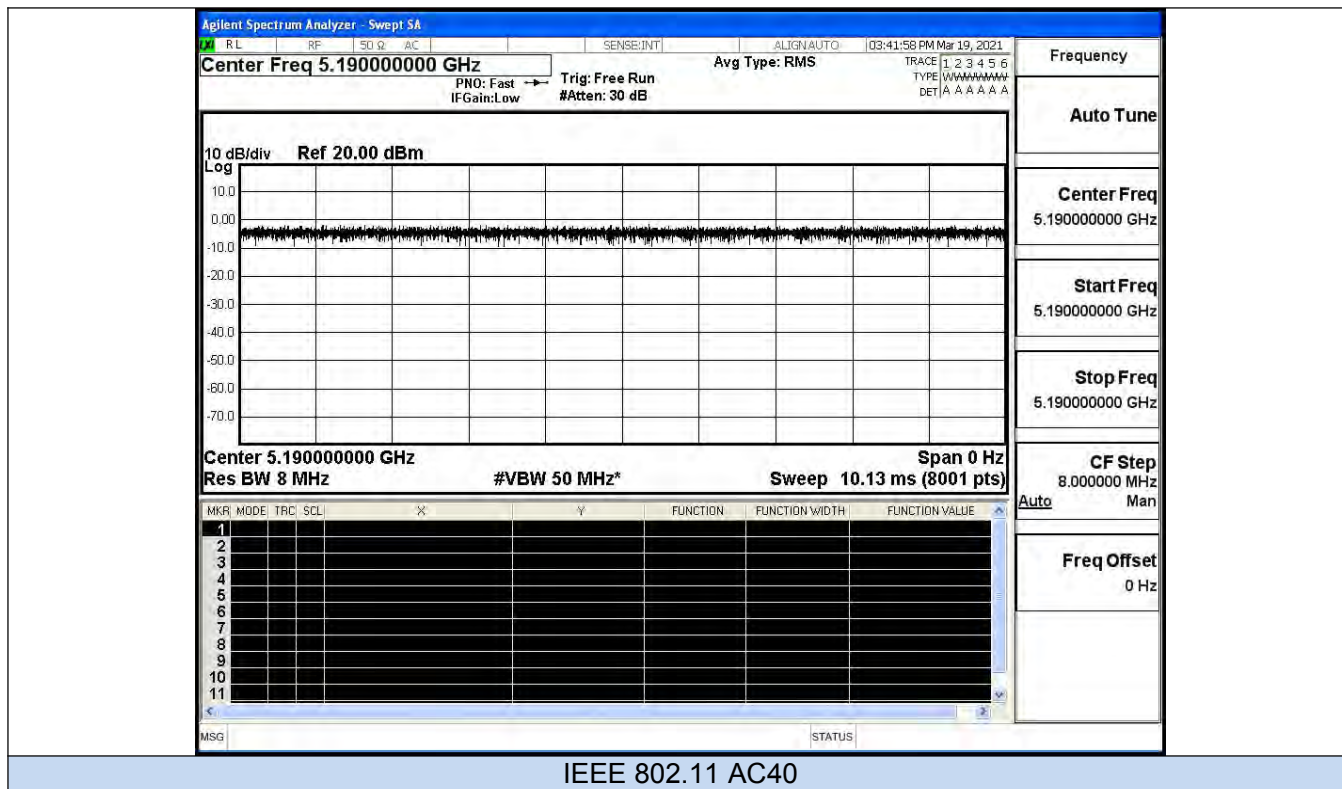
IEEE 802.11n HT20



IEEE 802.11n HT40



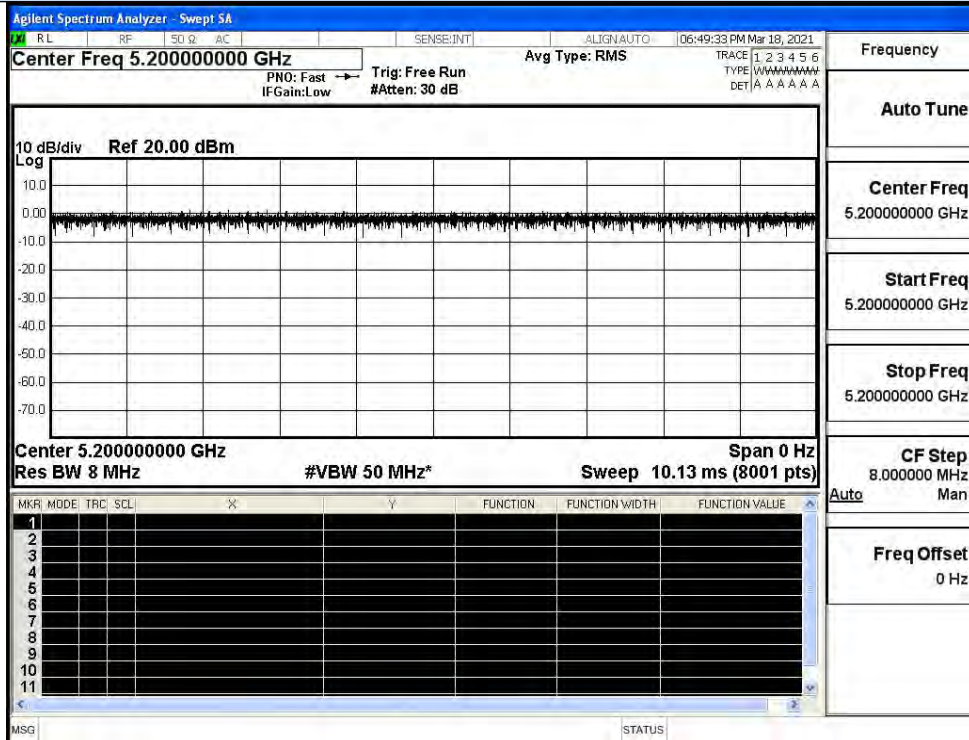
IEEE 802.11AC20



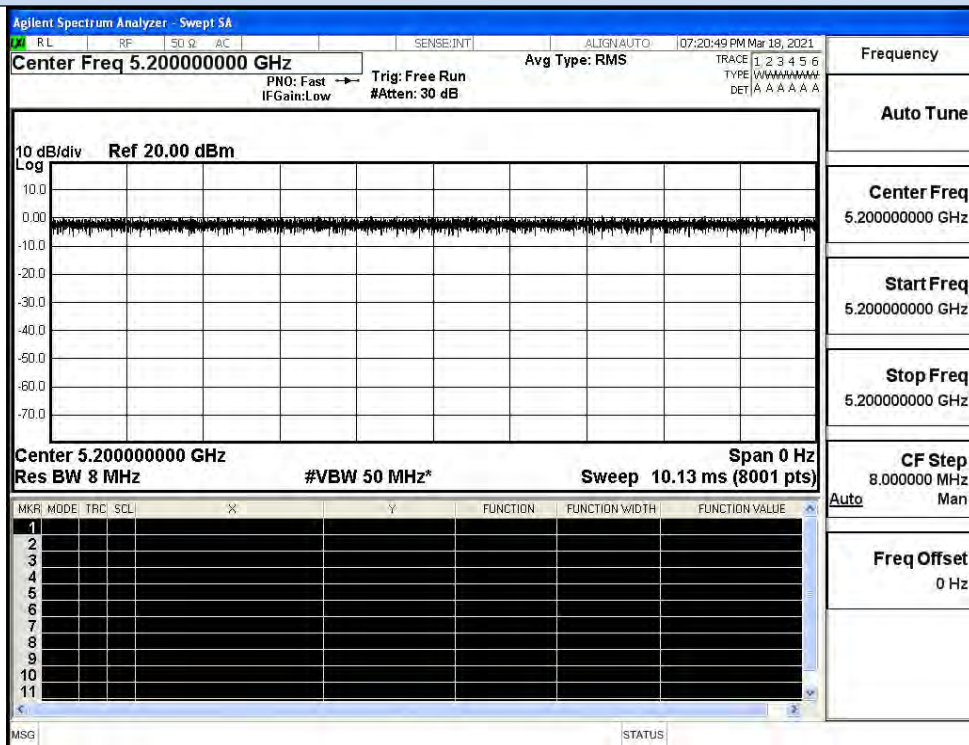
Ant1

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

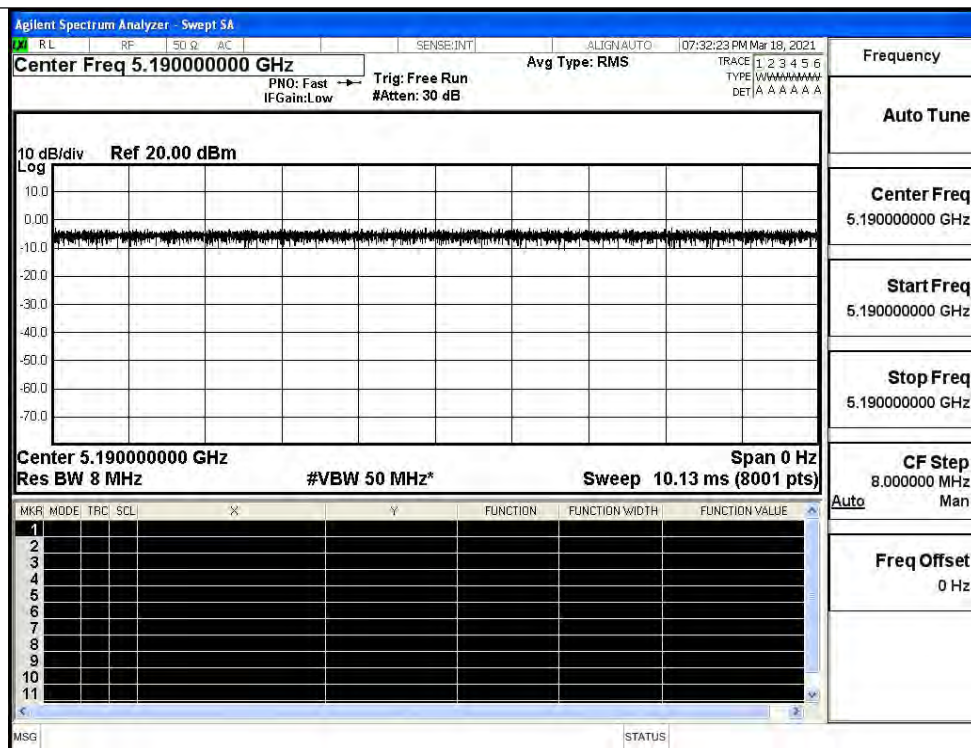
On Time and Duty Cycle



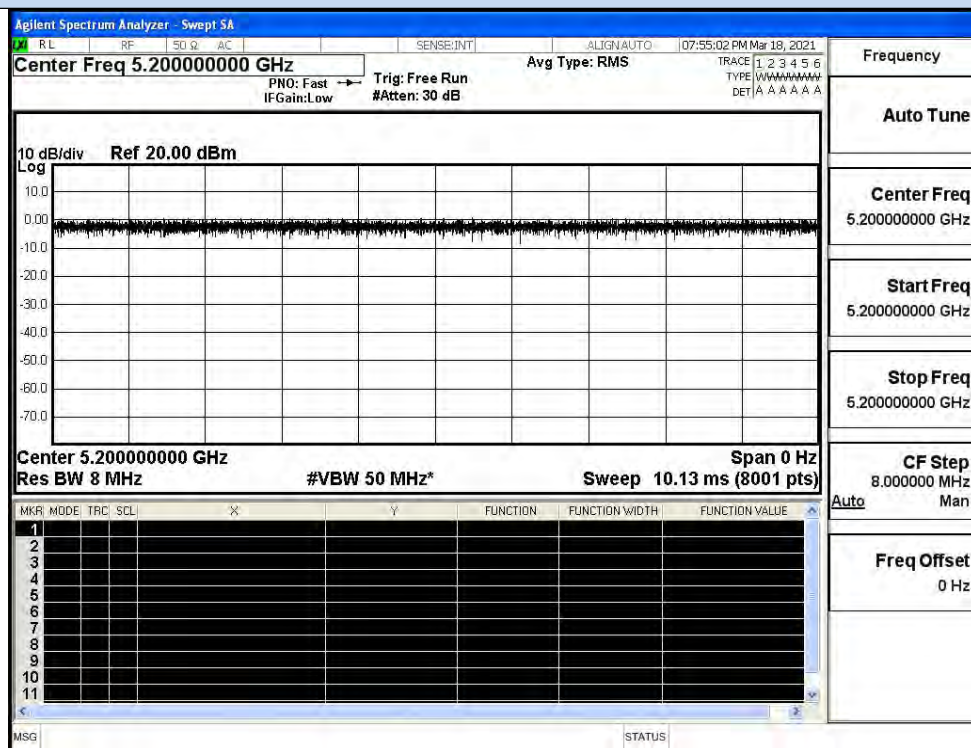
IEEE 802.11a



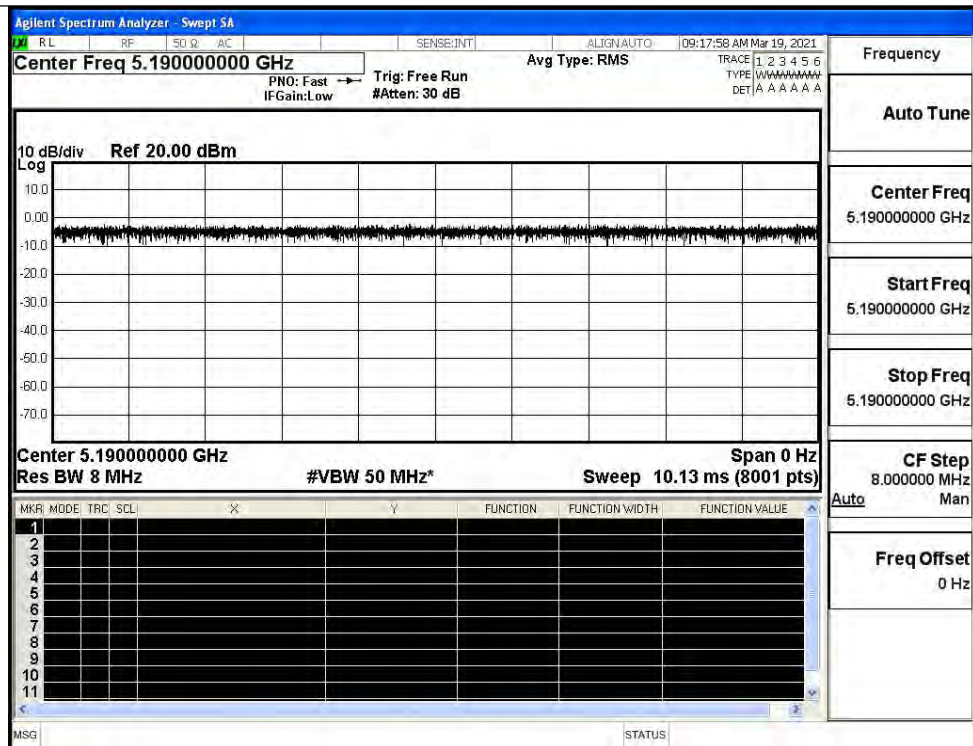
IEEE 802.11n HT20



IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40

D.2 Maximum Conduct Output Power

Ant0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	15.56	0	15.56	24	Pass
	40	5200	15.21	0	15.21		Pass
	48	5240	14.90	0	14.90		Pass
11N20 SISO	36	5180	15.63	0	15.63	24	Pass
	40	5200	15.84	0	15.84		Pass
	48	5240	15.75	0	15.75		Pass
11N40 SISO	38	5190	15.72	0	15.72	24	Pass
	46	5230	15.43	0	15.43		Pass
11AC20 SISO	36	5180	16.24	0	16.24	24	Pass
	40	5200	16.11	0	16.11		Pass
	48	5240	15.77	0	15.77		Pass
11AC40 SISO	38	5190	15.81	0	15.81	24	Pass
	46	5230	15.53	0	15.53		Pass

Ant1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	15.00	0	15.00	24	Pass
	40	5200	14.65	0	14.65		Pass
	48	5240	14.25	0	14.25		Pass
11N20 SISO	36	5180	15.06	0	15.06	24	Pass
	40	5200	14.78	0	14.78		Pass
	48	5240	14.32	0	14.32		Pass
11N40 SISO	38	5190	14.58	0	14.58	24	Pass
	46	5230	14.23	0	14.23		Pass
11AC20 SISO	36	5180	14.99	0	14.99	24	Pass
	40	5200	14.71	0	14.71		Pass
	48	5240	14.32	0	14.32		Pass
11AC40 SISO	38	5190	15.30	0	15.30	24	Pass
	46	5230	14.97	0	14.97		Pass

ANT0+ANT1:

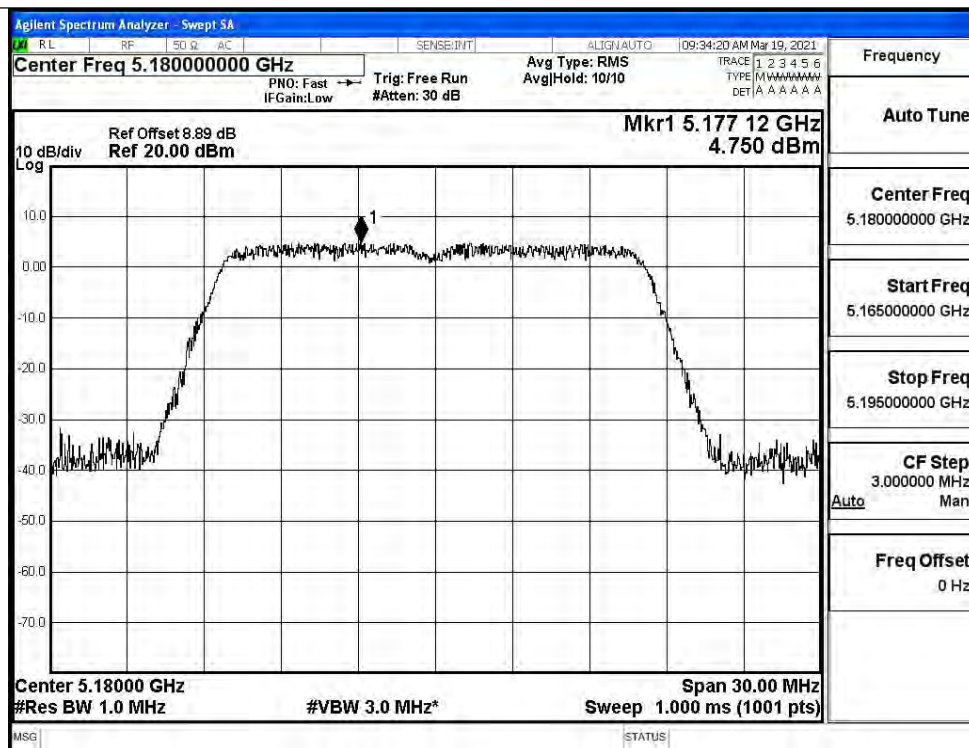
Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)			Limit (dBm)	Verdict
				Ant0	Ant1	Sum		
11N20 MIMO	36	5180	0	15.63	15.06	18.36	24	Pass
	40	5200	0	15.84	14.78	18.35		Pass
	48	5240	0	15.75	14.32	18.10		Pass
11N40 MIMO	38	5190	0	15.72	14.58	18.20	24	Pass
	46	5230	0	15.43	14.23	17.88		Pass
11AC20 MIMO	36	5180	0	16.24	14.99	18.67	24	Pass
	40	5200	0	16.11	14.71	18.48		Pass
	48	5240	0	15.77	14.32	18.12		Pass
11AC40 MIMO	38	5190	0	15.81	15.30	18.57	24	Pass
	46	5230	0	15.53	14.97	18.27		Pass

D.3 Power Spectral Density

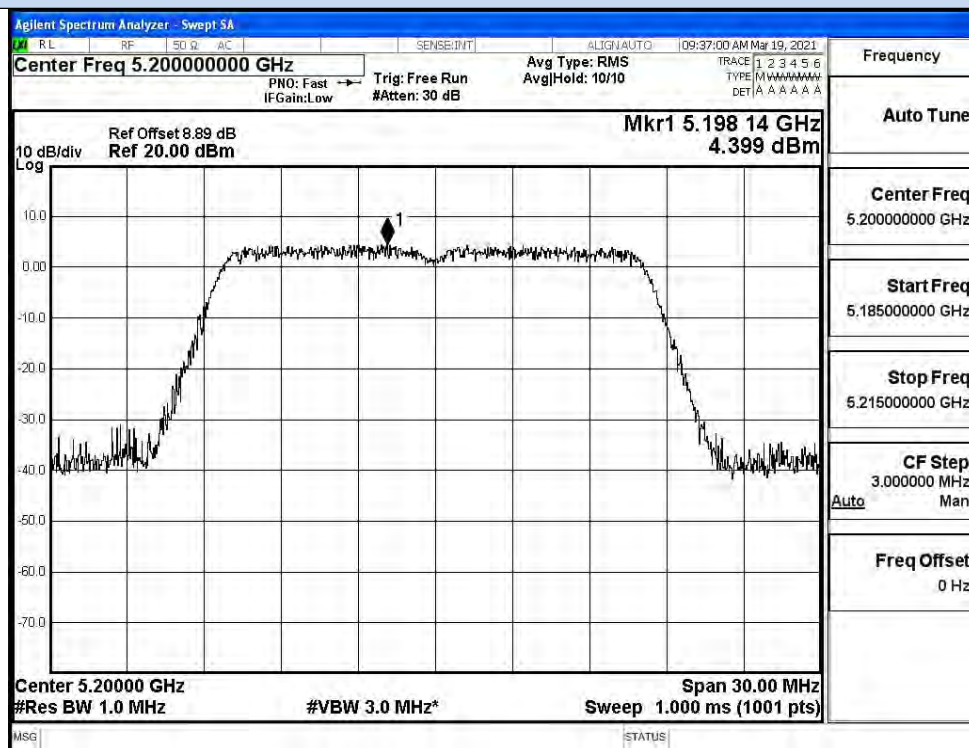
Ant0

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	4.75	0	4.75	11	Pass
	40	5200	4.40	0	4.40		Pass
	48	5240	4.05	0	4.05		Pass
11N20 SISO	36	5180	4.65	0	4.65	11	Pass
	40	5200	4.55	0	4.55		Pass
	48	5240	4.69	0	4.69		Pass
11N40 SISO	38	5190	1.85	0	1.85	11	Pass
	46	5230	1.65	0	1.65		Pass
11AC20 SISO	36	5180	5.19	0	5.19	11	Pass
	40	5200	4.82	0	4.82		Pass
	48	5240	4.51	0	4.51		Pass
11AC40 SISO	38	5190	1.78	0	1.78	11	Pass
	46	5230	1.92	0	1.92		Pass

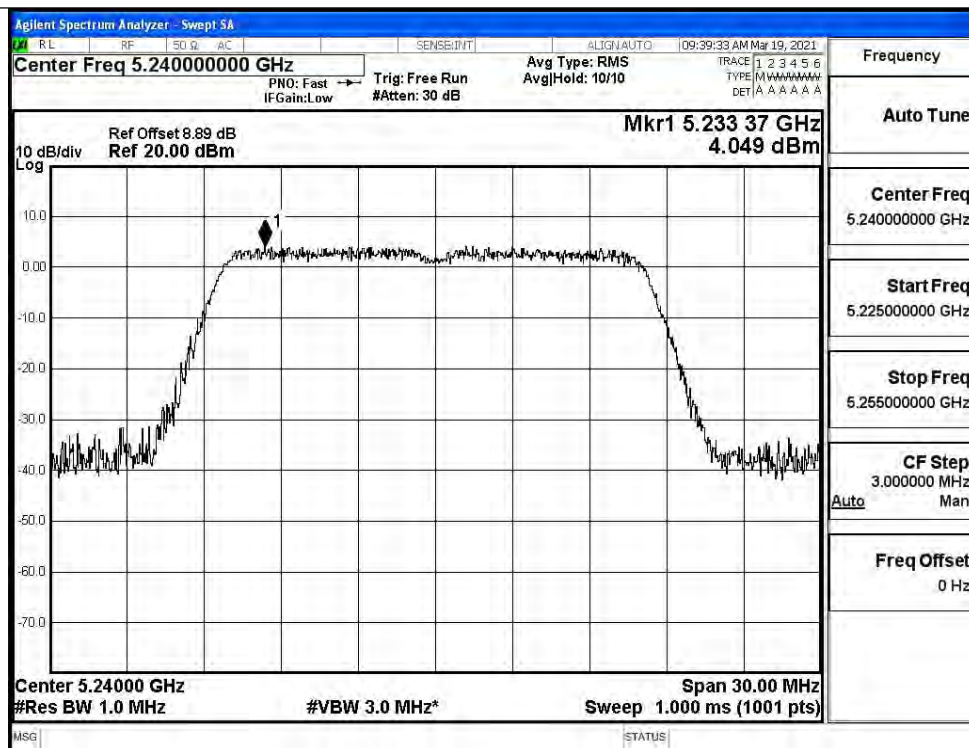
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180MHz

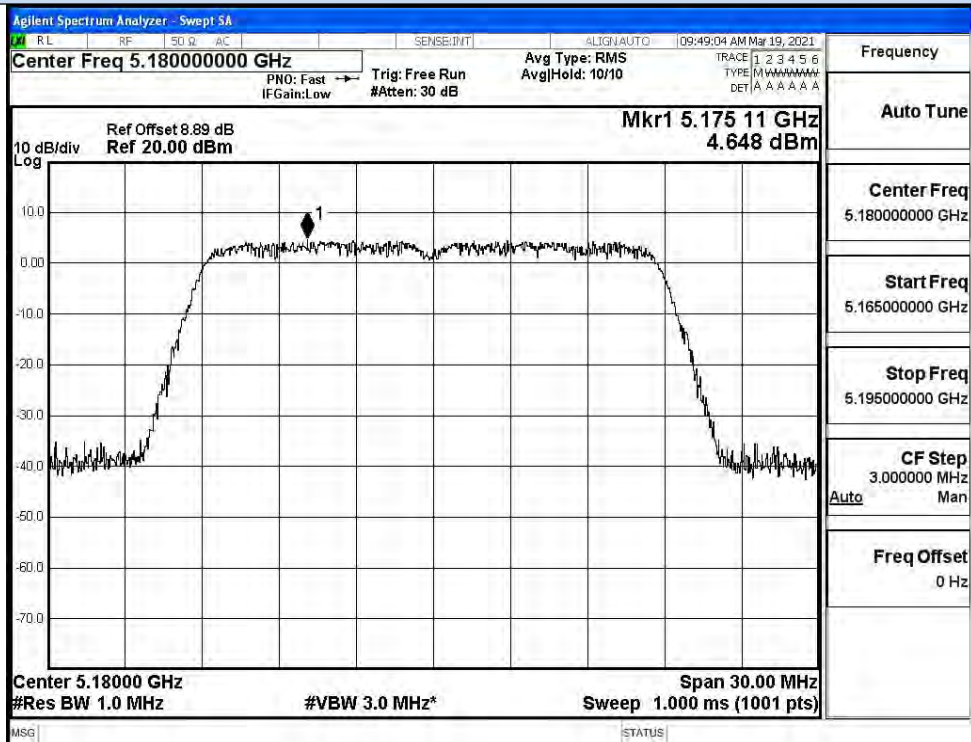


IEEE 802.11a / Channel 40 / 5200MHz

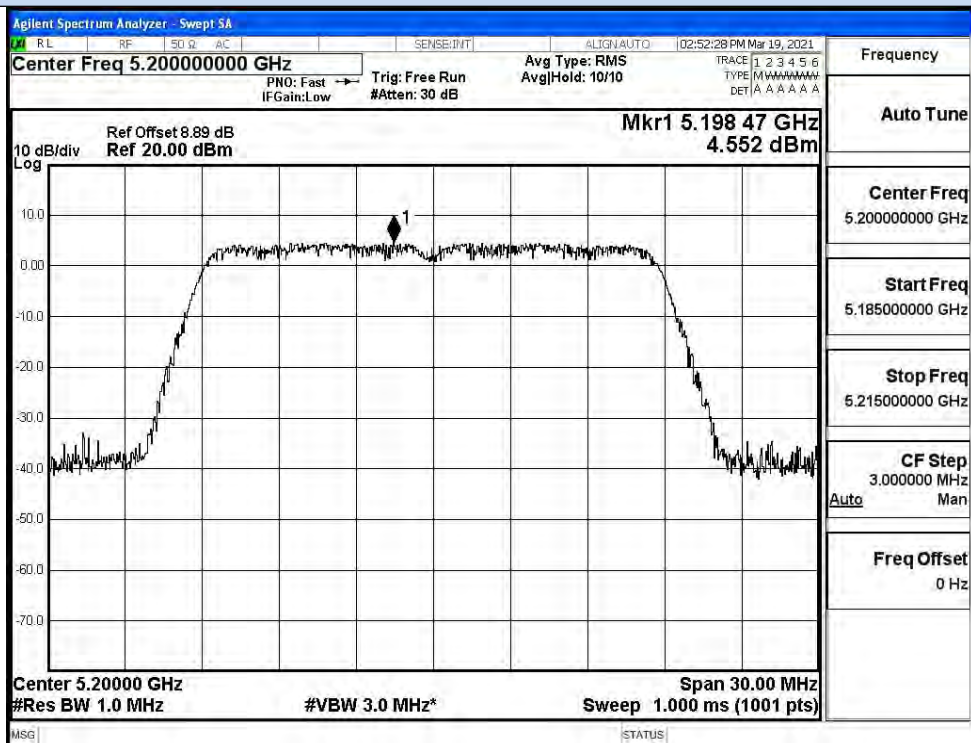


IEEE 802.11na / Channel 48 / 5240MHz

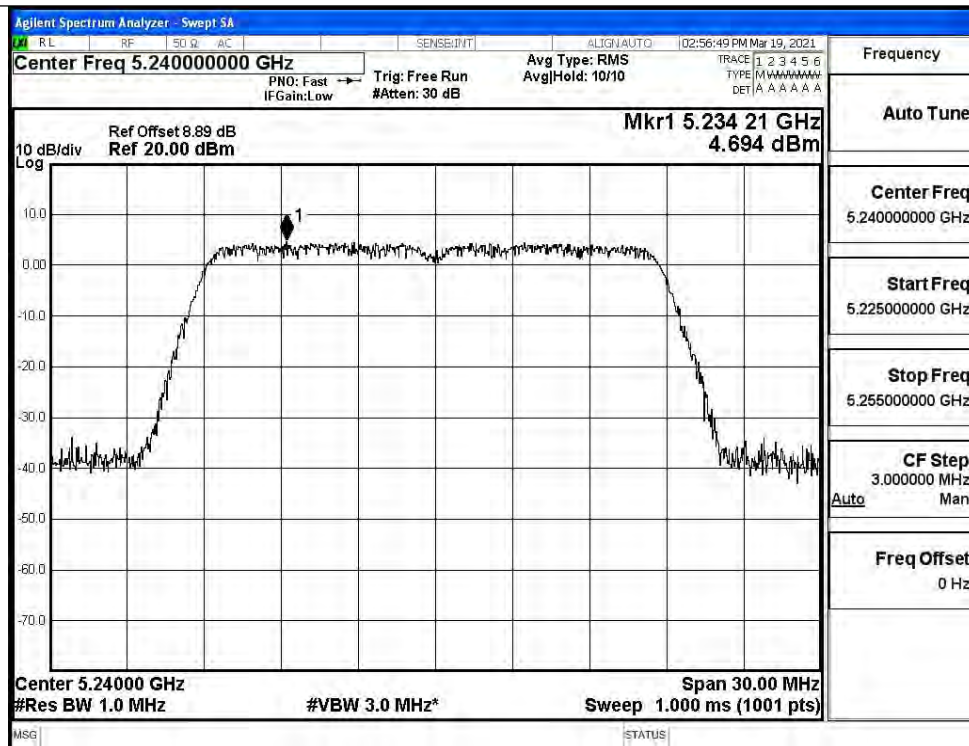
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

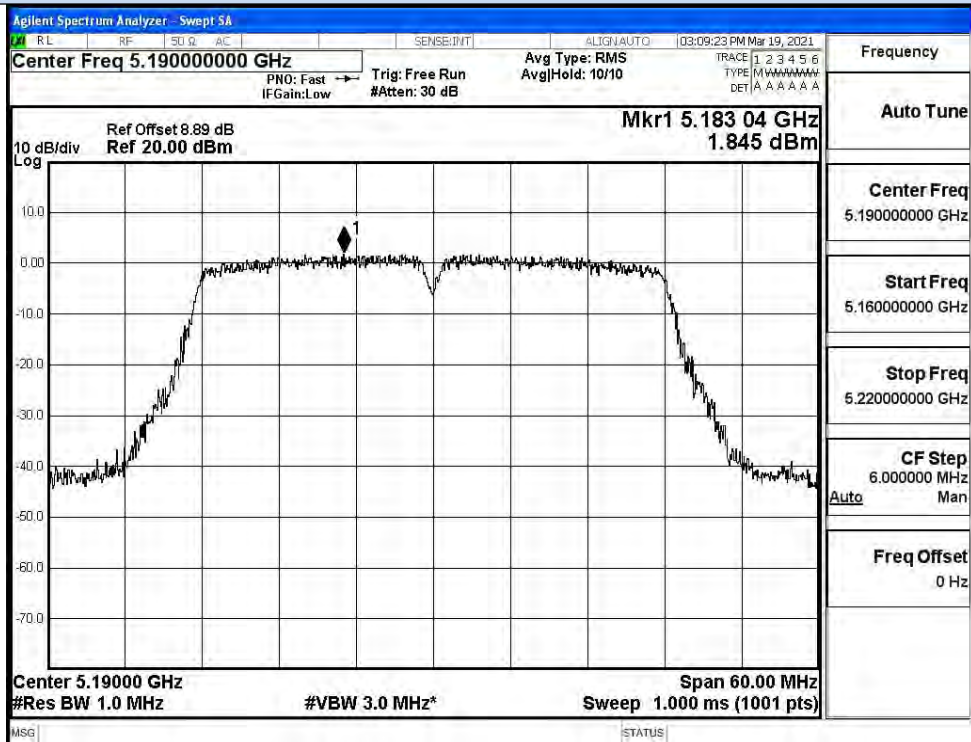


IEEE 802.11n20 / Channel 40 / 5200MHz

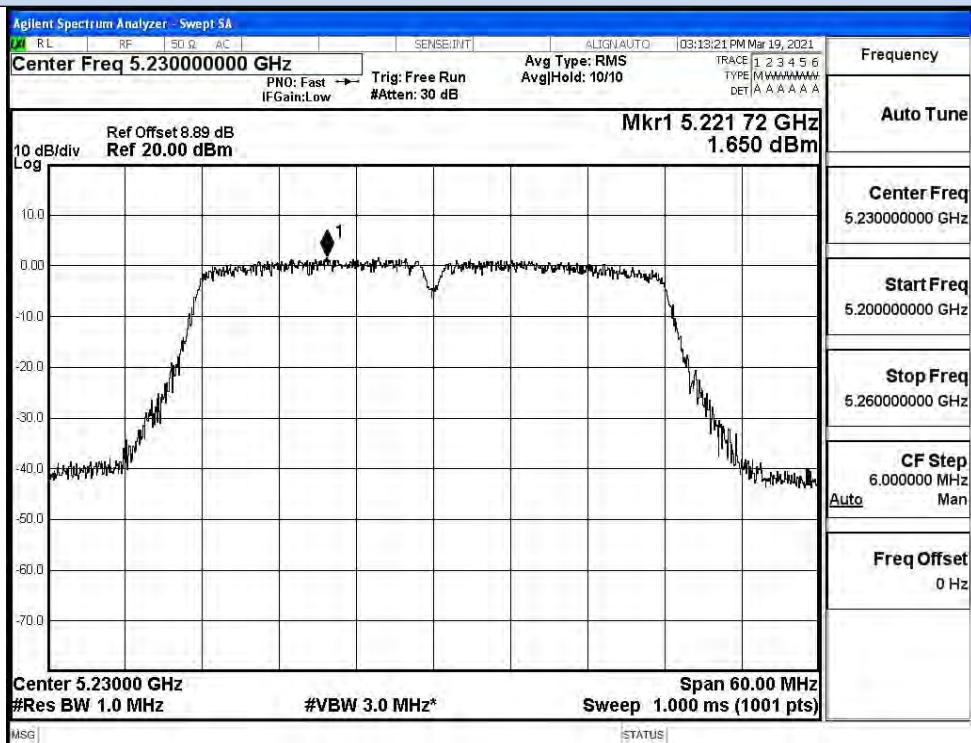


IEEE 802.11n20 / Channel 48 / 5240MHz

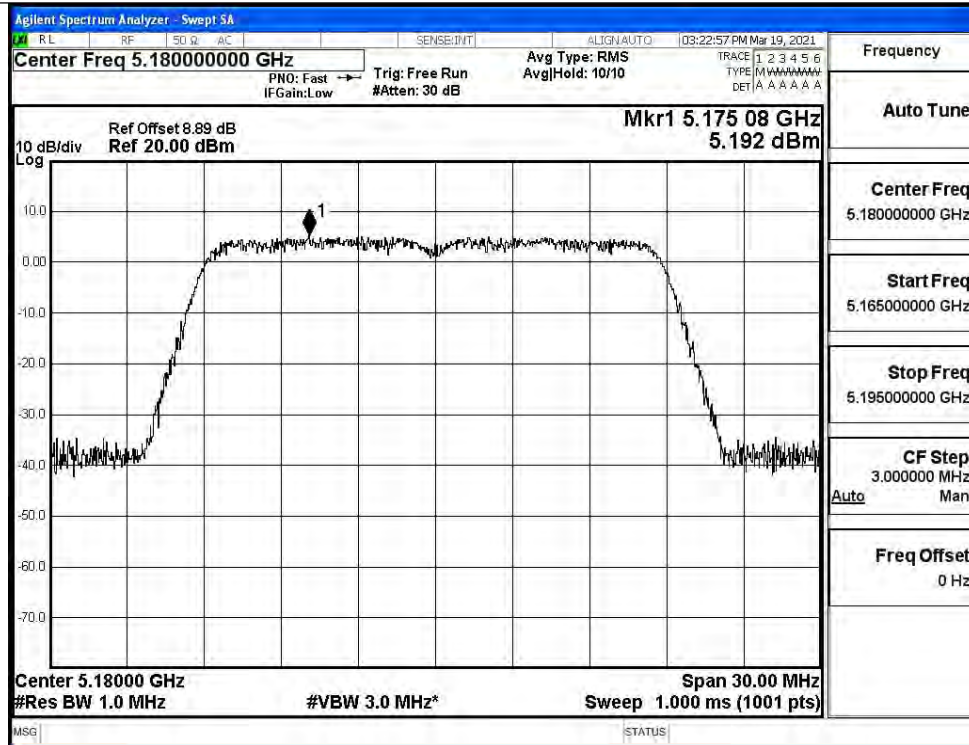
Power Spectral Density



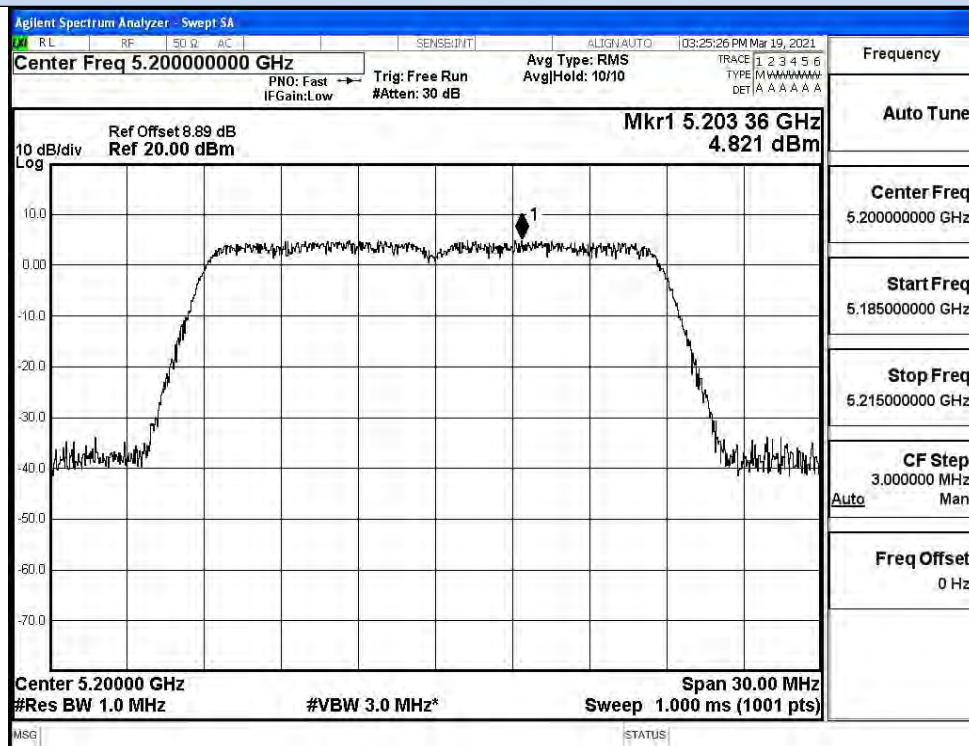
IEEE 802.11n40 / Channel 38 / 5190MHz



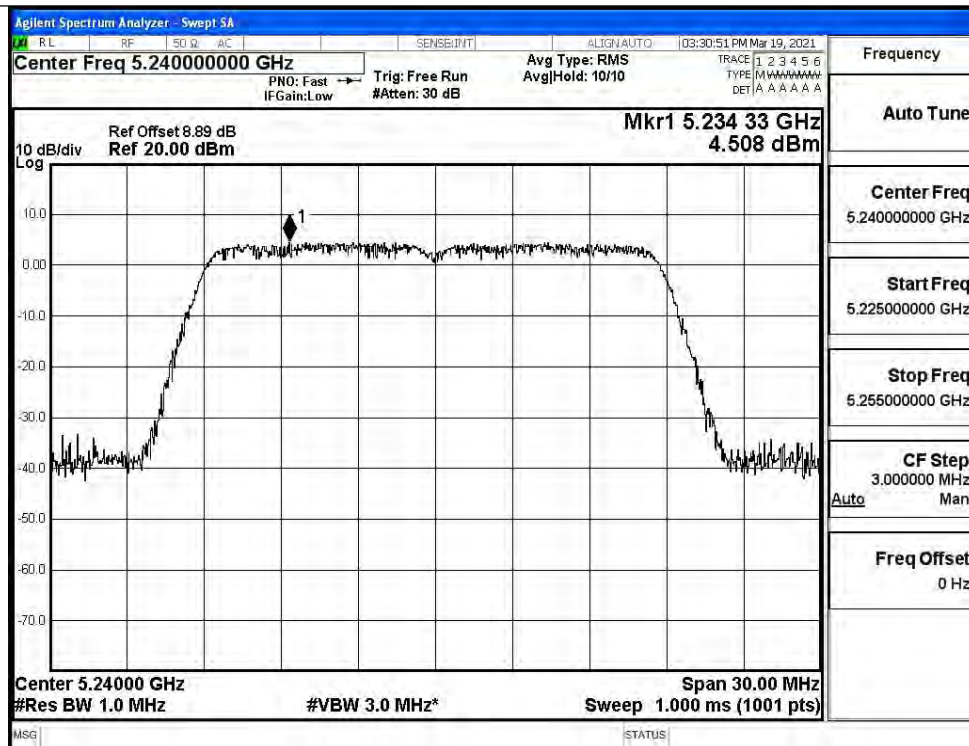
IEEE 802.11n40 / Channel 46 / 5230MHz



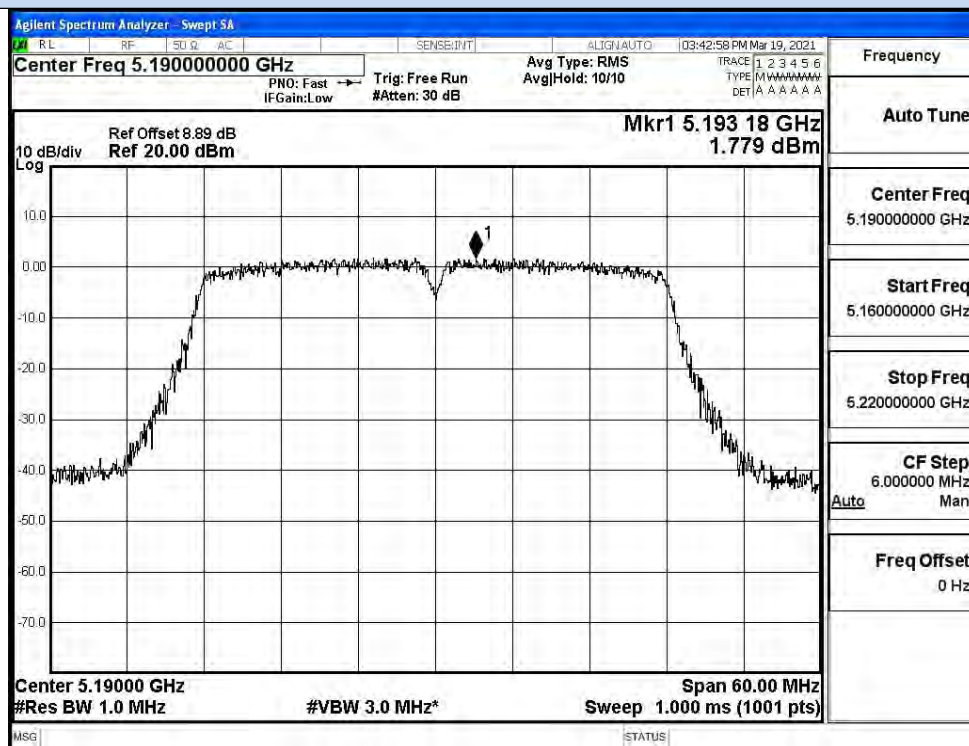
IEEE 802.11ac20 / Channel 36 / 5180MHz



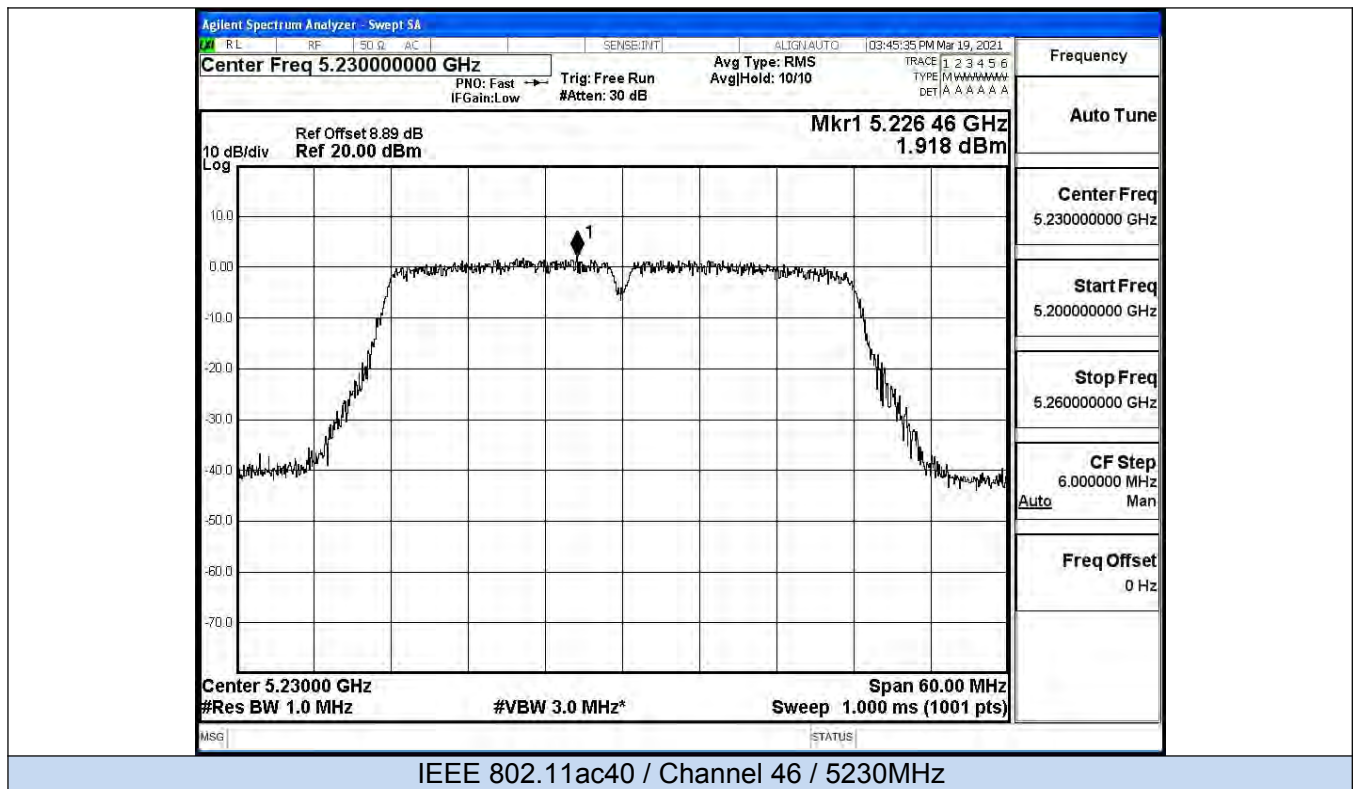
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



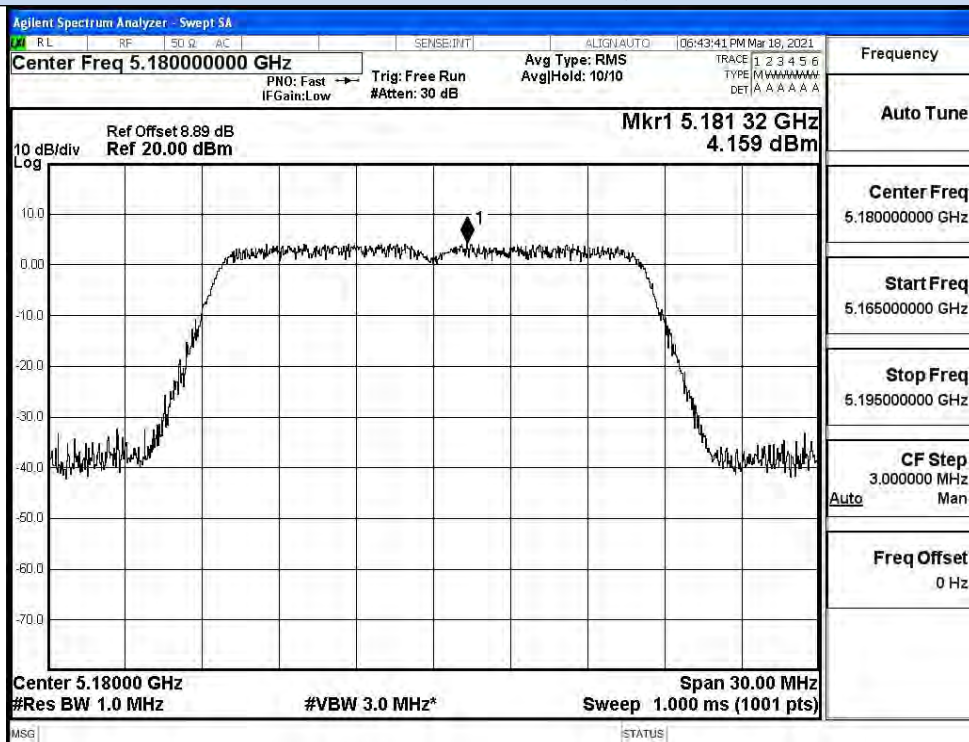
IEEE 802.11ac40 / Channel 38 / 5190MHz



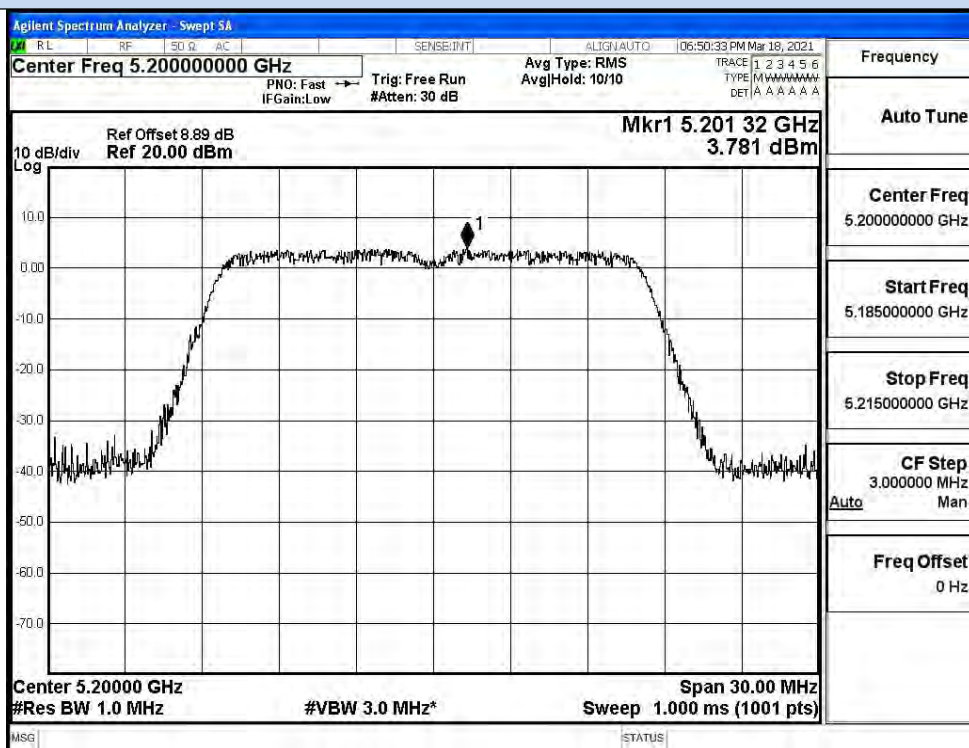
Ant1

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	4.16	0	4.16	11	Pass
	40	5200	3.78	0	3.78		Pass
	48	5240	3.42	0	3.42		Pass
11N20 SISO	36	5180	3.83	0	3.83	11	Pass
	40	5200	3.67	0	3.67		Pass
	48	5240	3.12	0	3.12		Pass
11N40 SISO	38	5190	0.87	0	0.87	11	Pass
	46	5230	0.47	0	0.47		Pass
11AC20 SISO	36	5180	3.72	0	3.72	11	Pass
	40	5200	3.55	0	3.55		Pass
	48	5240	3.28	0	3.28		Pass
11AC40 SISO	38	5190	1.40	0	1.40	11	Pass
	46	5230	1.19	0	1.19		Pass

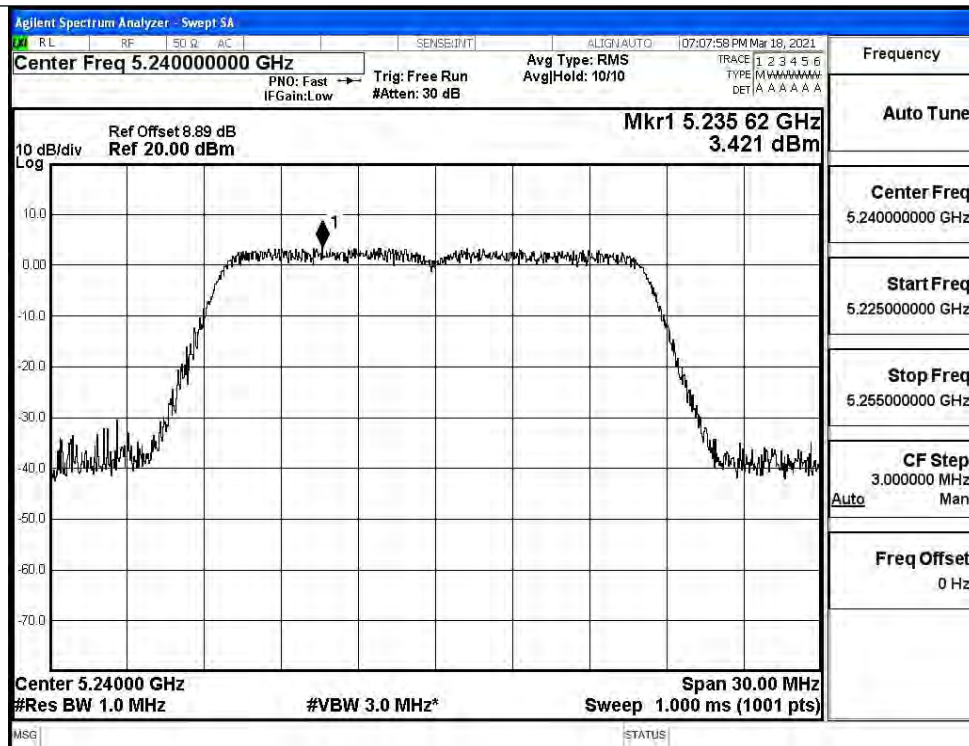
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180MHz

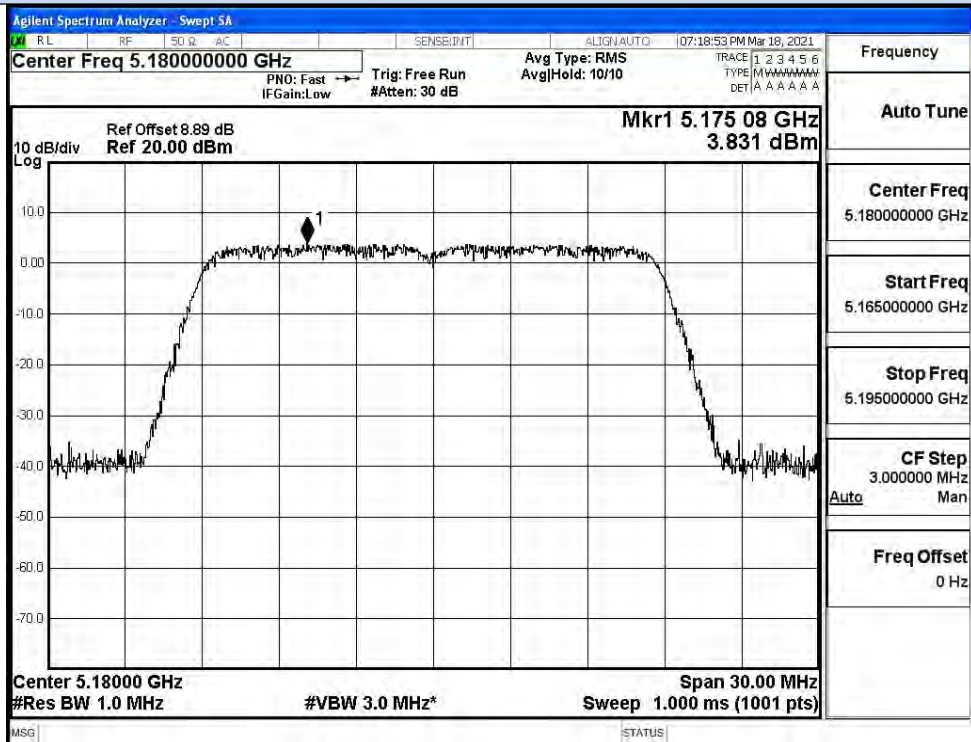


IEEE 802.11a / Channel 40 / 5200MHz

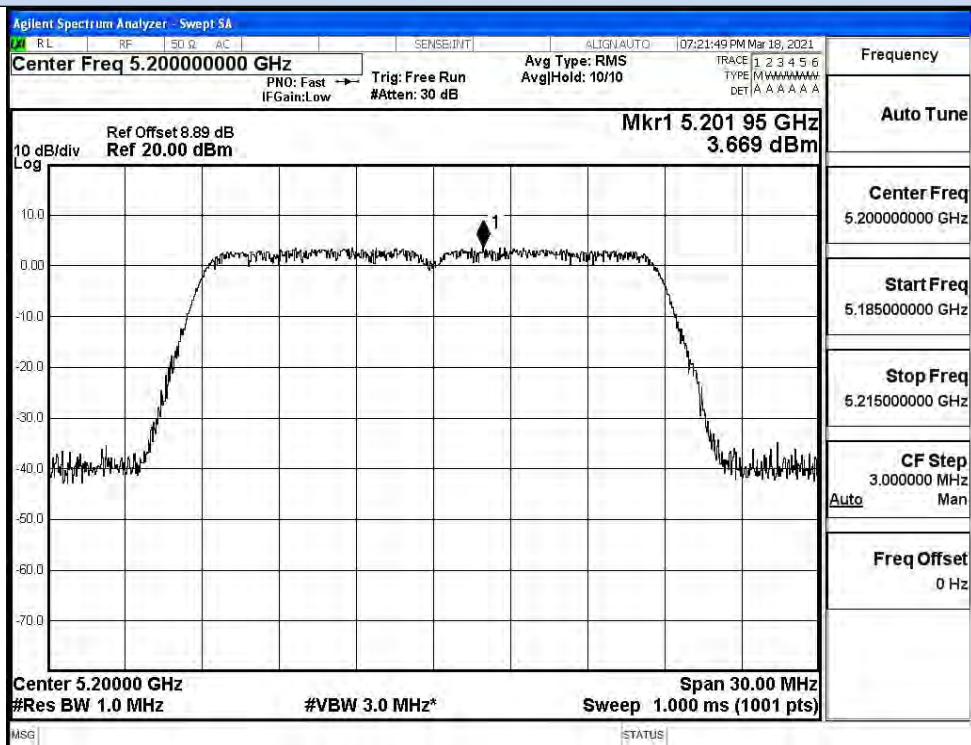


IEEE 802.11na / Channel 48 / 5240MHz

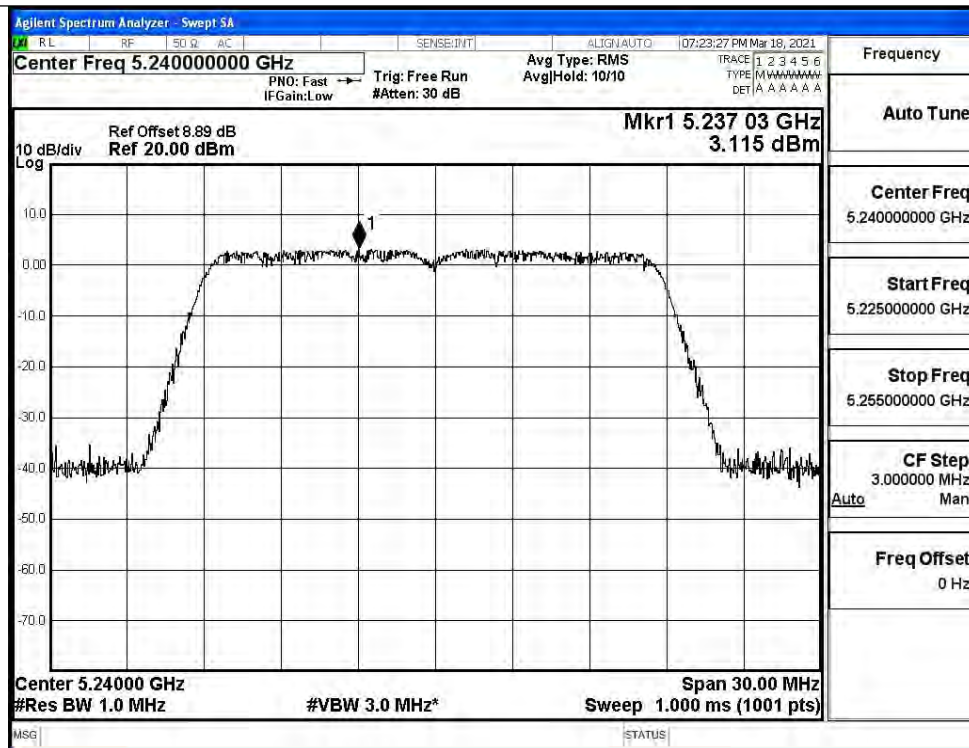
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

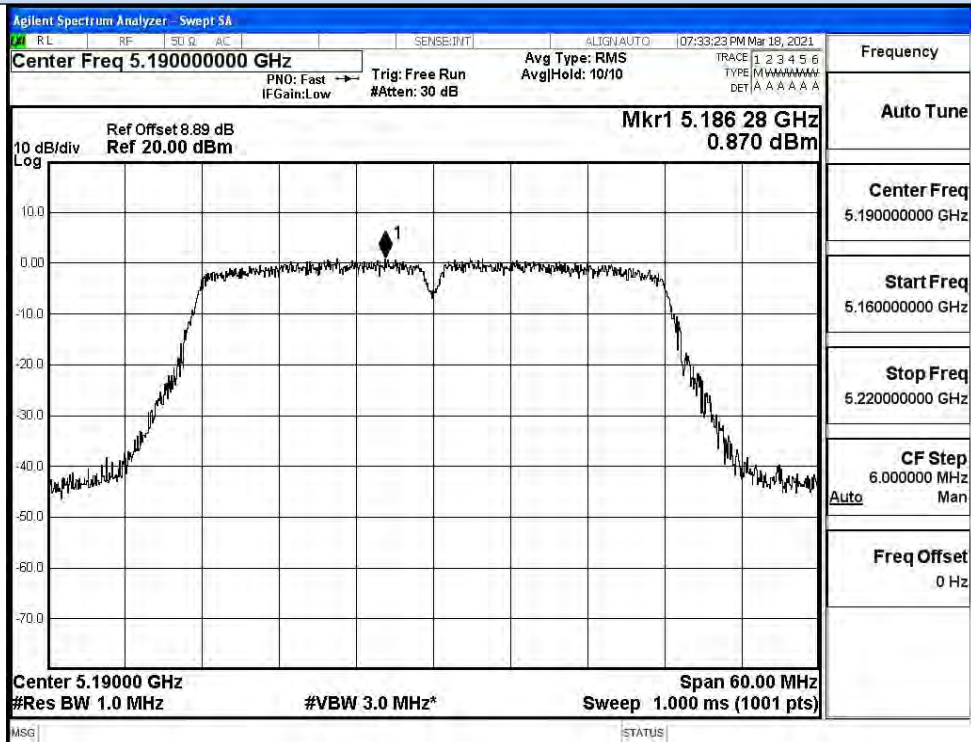


IEEE 802.11n20 / Channel 40 / 5200MHz

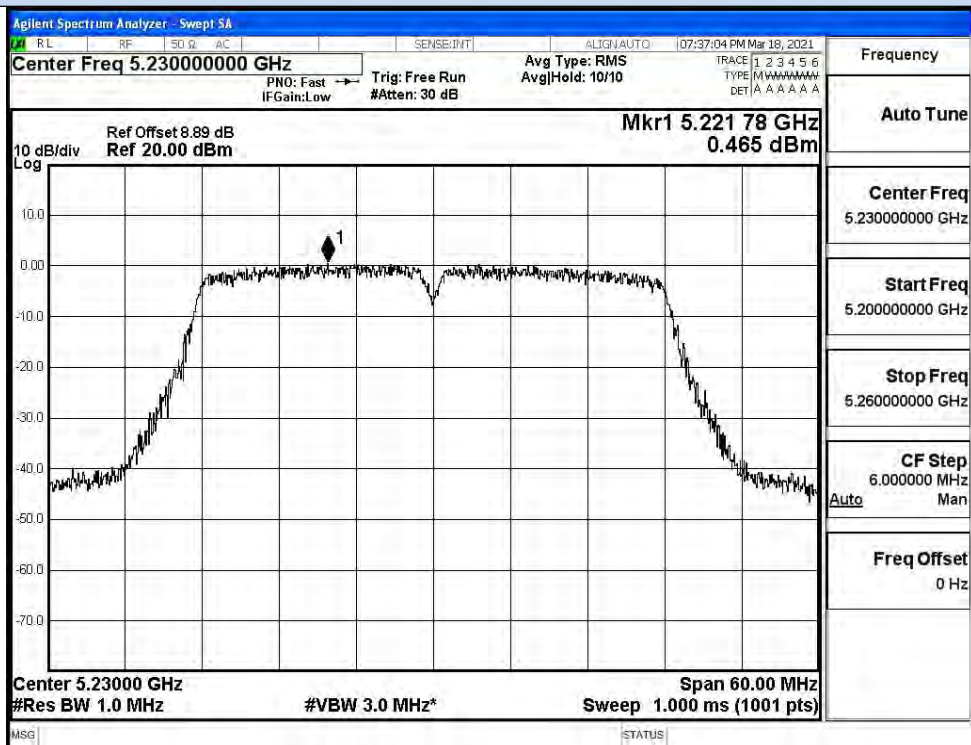


IEEE 802.11n20 / Channel 48 / 5240MHz

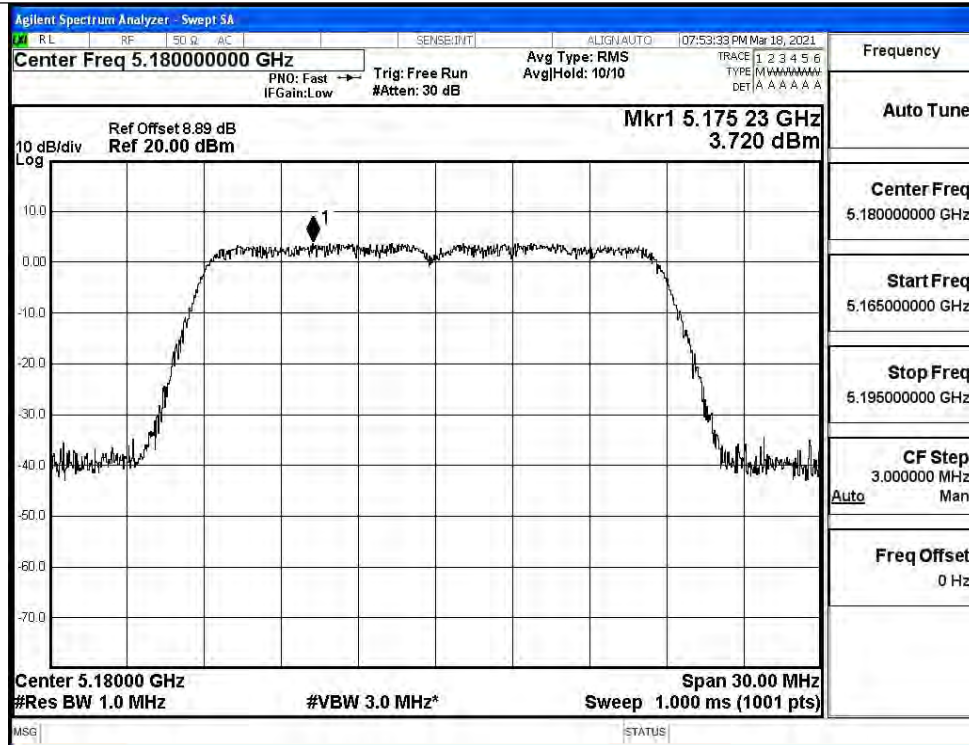
Power Spectral Density



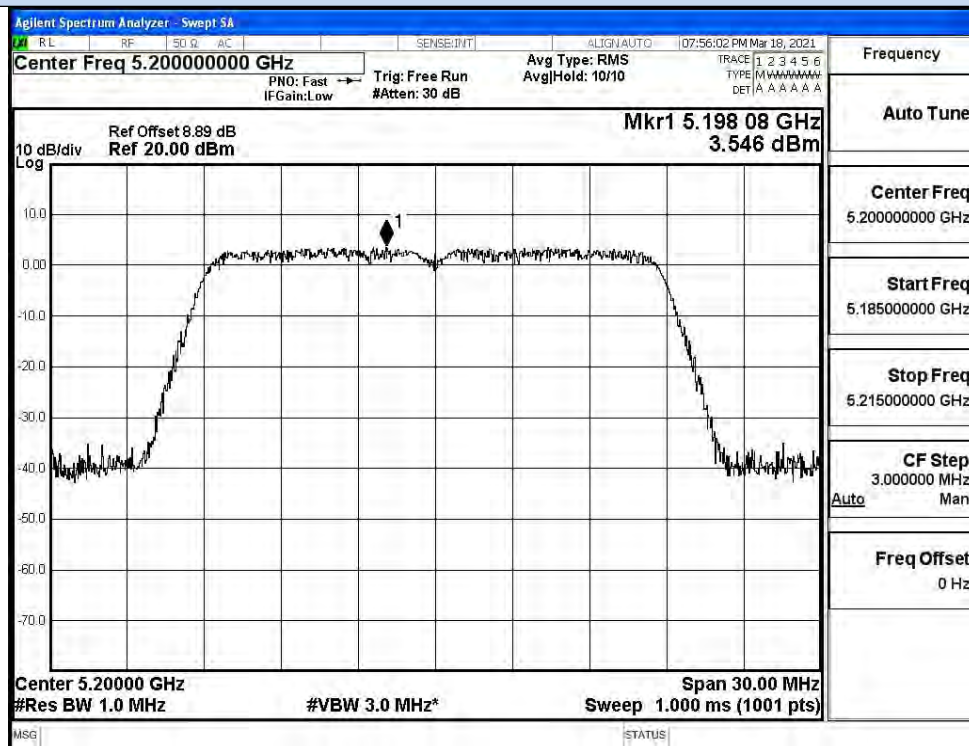
IEEE 802.11n40 / Channel 38 / 5190MHz



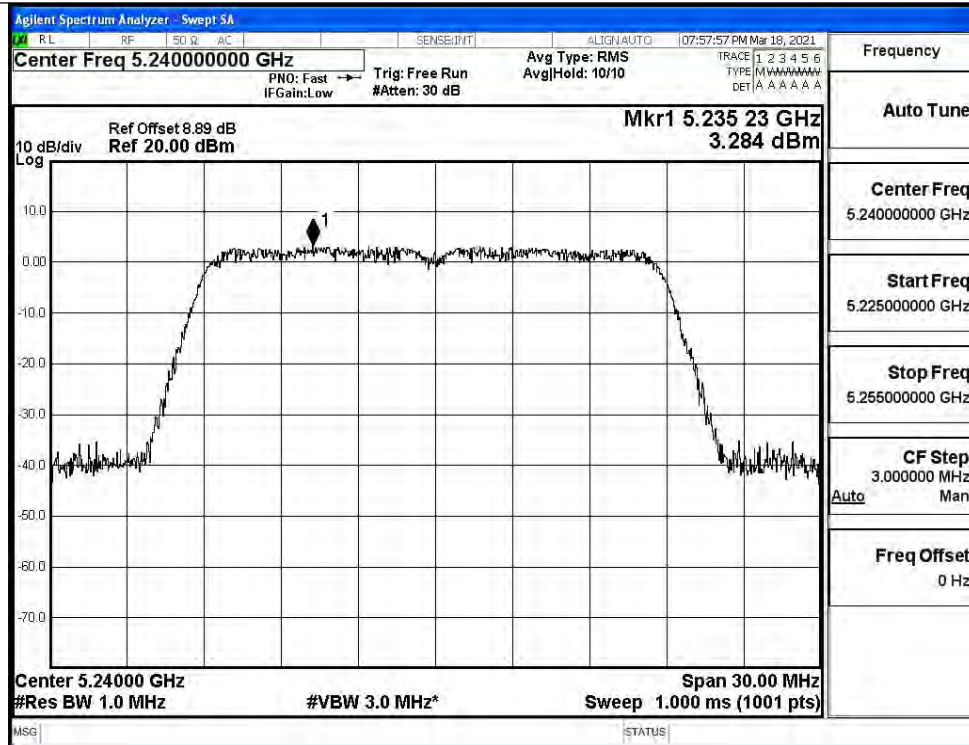
IEEE 802.11n40 / Channel 46 / 5230MHz



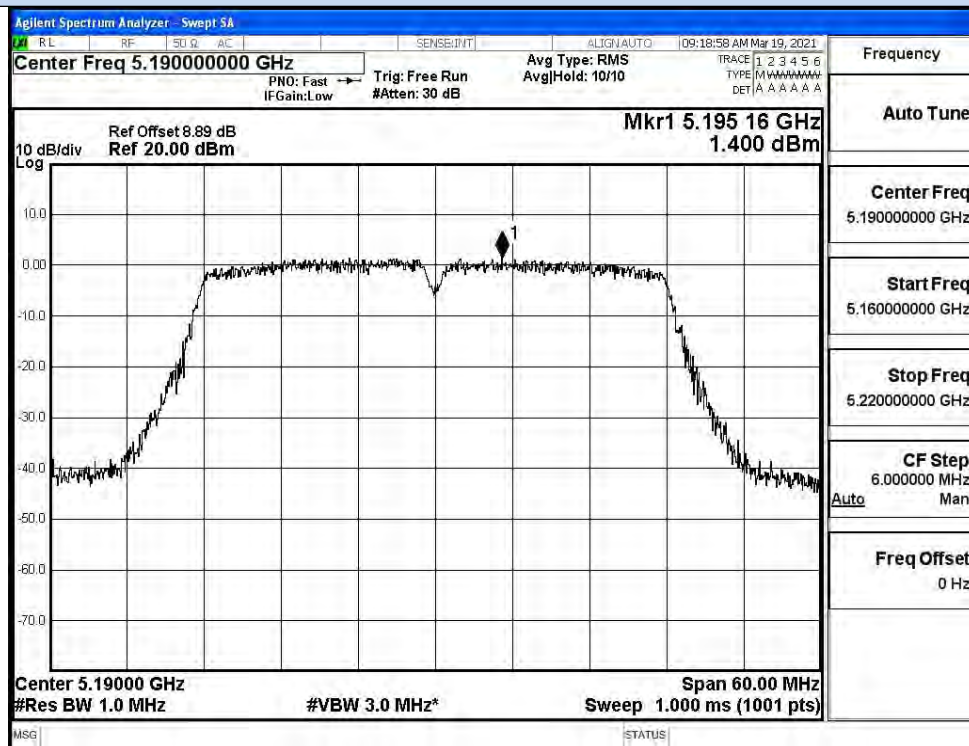
IEEE 802.11ac20 / Channel 36 / 5180MHz



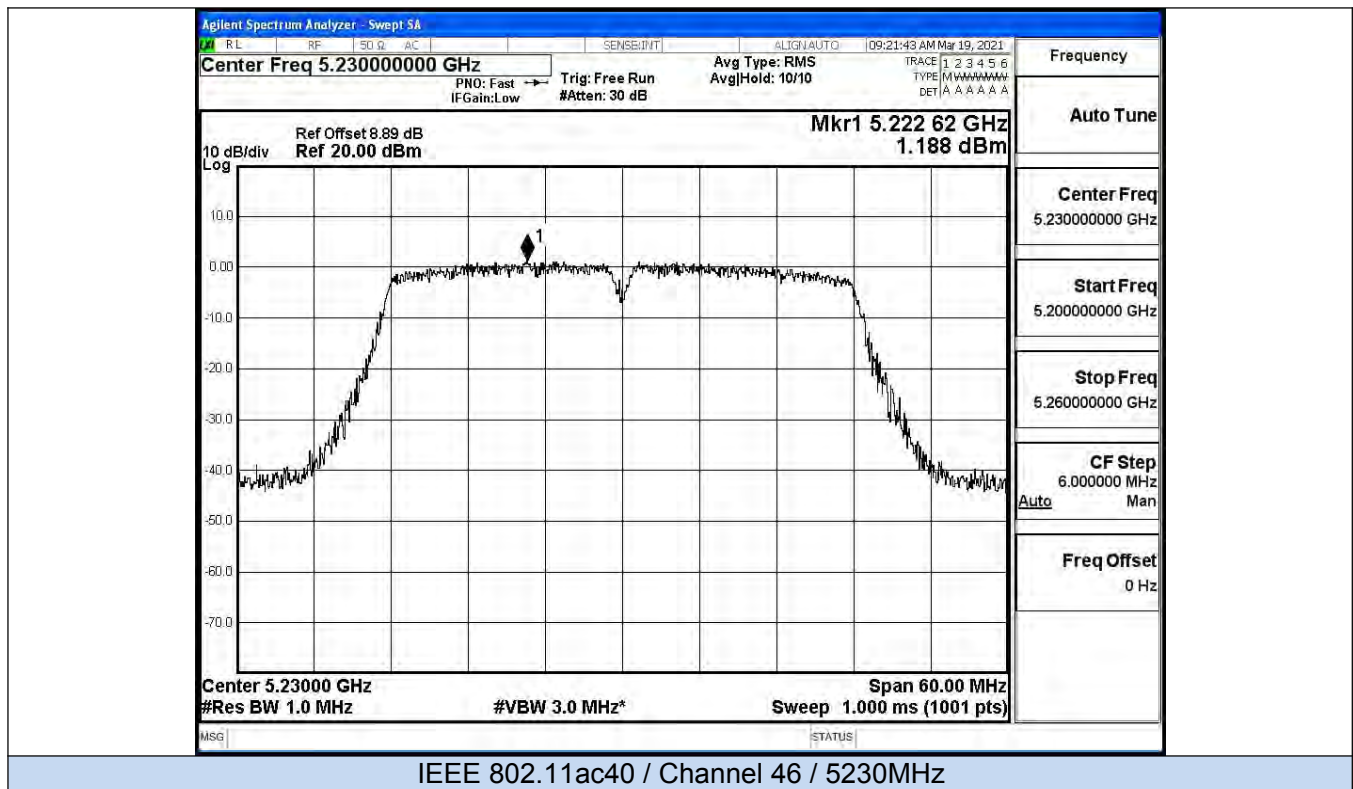
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



ANT0+ANT1:

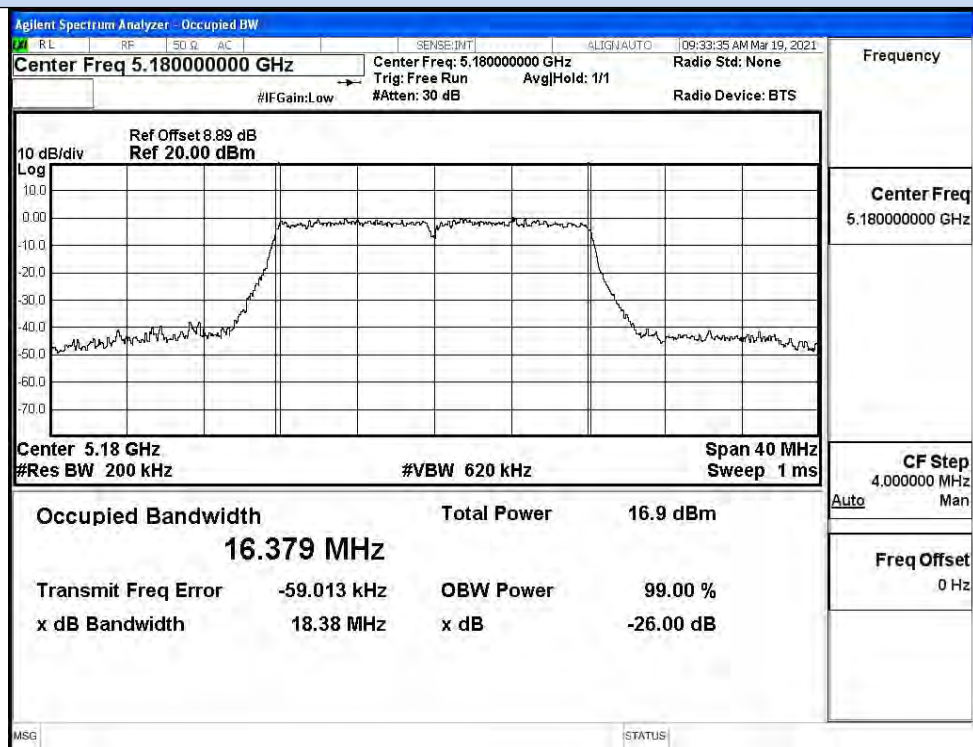
Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)			Limit (dBm)
				Ant0	Ant1	Sum	
11N20 MIMO	36	5180	0	4.65	3.83	7.27	8.99
	40	5200	0	4.55	3.67	7.14	
	48	5240	0	4.69	3.12	6.99	
11N40 MIMO	38	5190	0	1.85	0.87	4.40	8.99
	46	5230	0	1.65	0.47	4.11	
11AC20 MIMO	36	5180	0	5.19	3.72	7.53	8.99
	40	5200	0	4.82	3.55	7.24	
	48	5240	0	4.51	3.28	6.95	
11AC40 MIMO	38	5190	0	1.78	1.40	4.60	8.99
	46	5230	0	1.92	1.19	4.58	

D.4 Emission Bandwidth

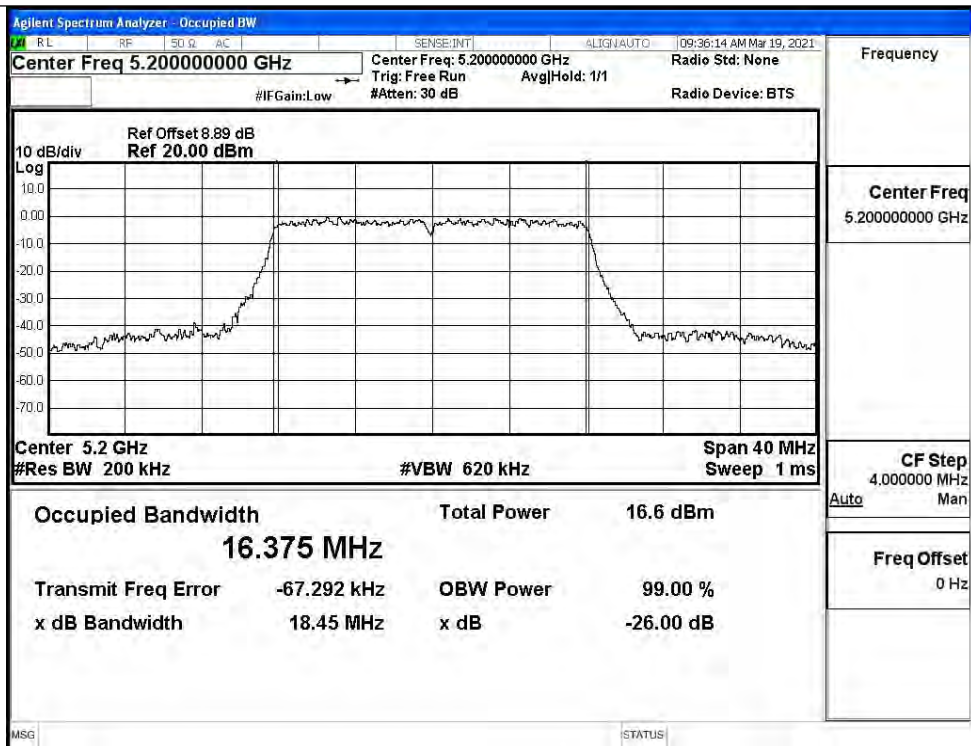
Ant0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	18.38	No Limit	Pass
	40	5200	18.45		Pass
	48	5240	18.51		Pass
11N20 SISO	36	5180	19.40	No Limit	Pass
	40	5200	19.43		Pass
	48	5240	19.39		Pass
11N40 SISO	38	5190	41.14	No Limit	Pass
	46	5230	40.98		Pass
11AC20 SISO	36	5180	19.39	No Limi	Pass
	40	5200	19.44		Pass
	48	5240	19.46		Pass
11AC40 SISO	38	5190	40.95	No Limi	Pass
	46	5230	41.13		Pass

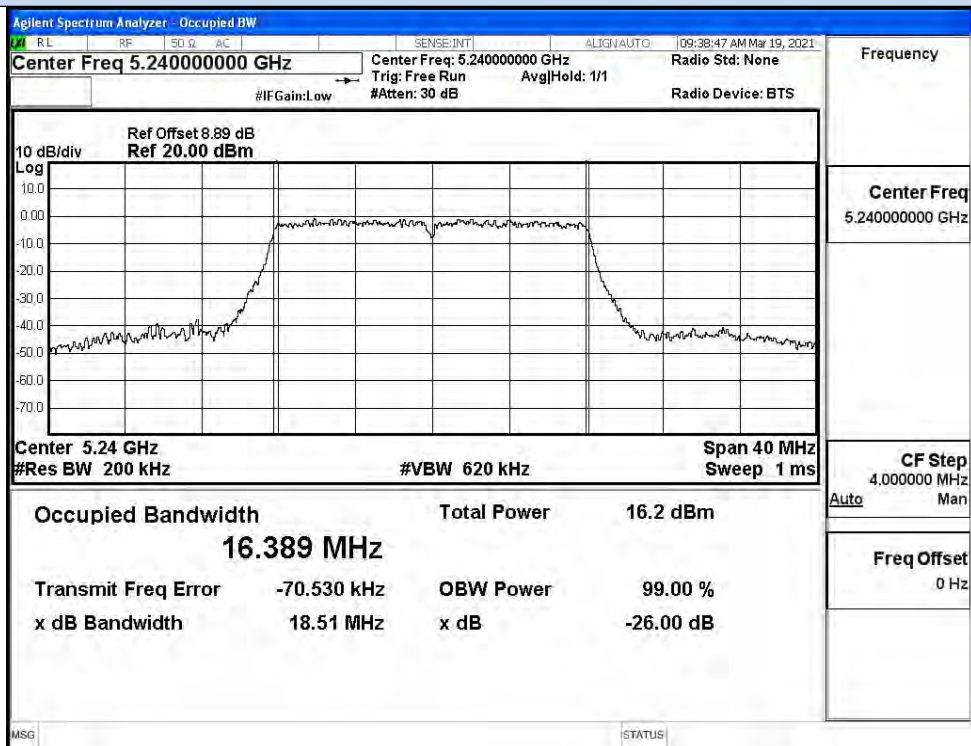
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

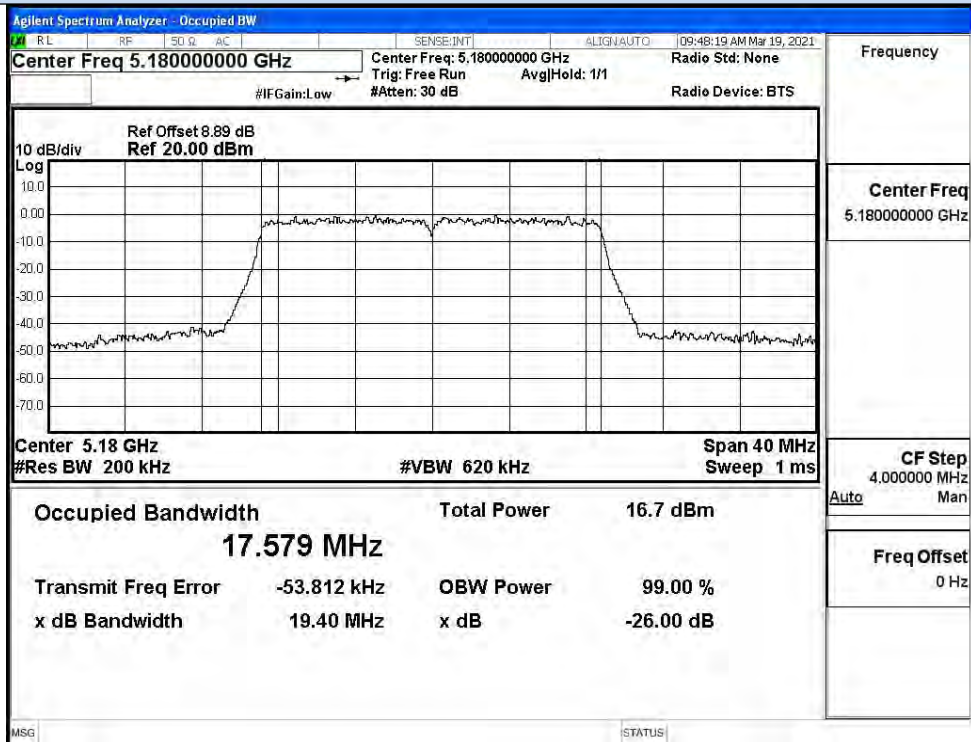


IEEE 802.11a / Channel 40 / 5200MHz

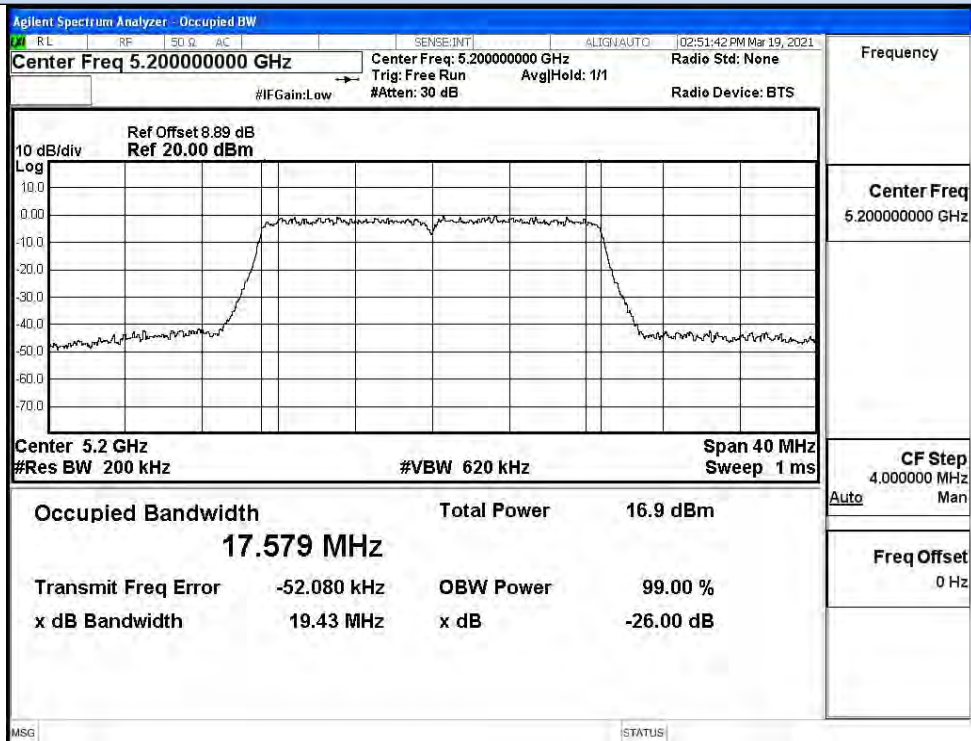


IEEE 802.11a / Channel 48 / 5240MHz

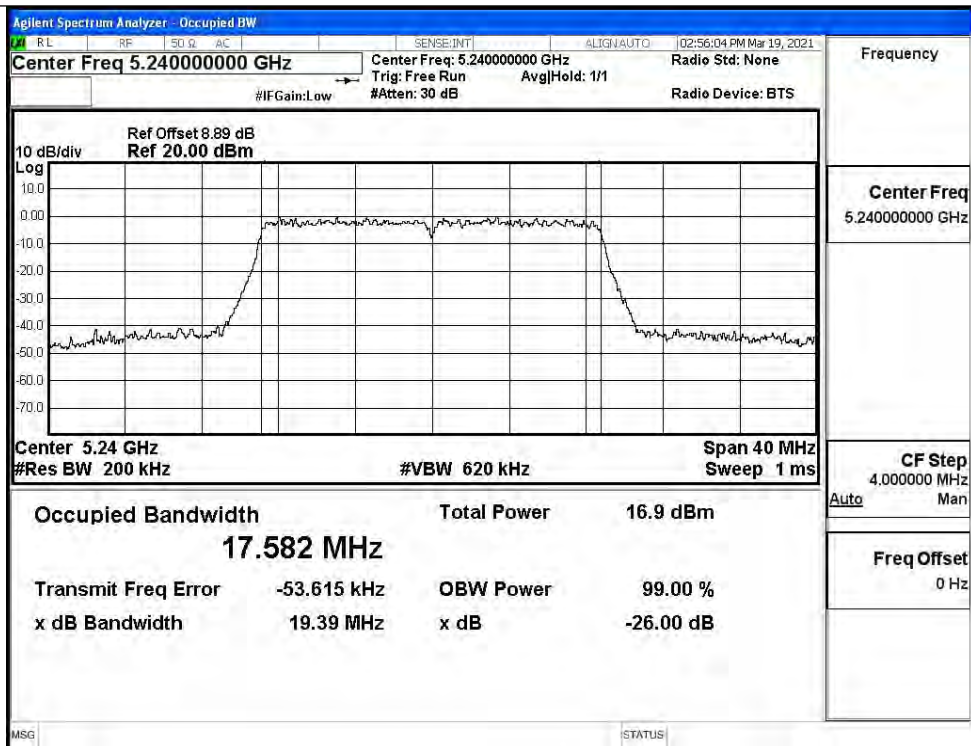
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

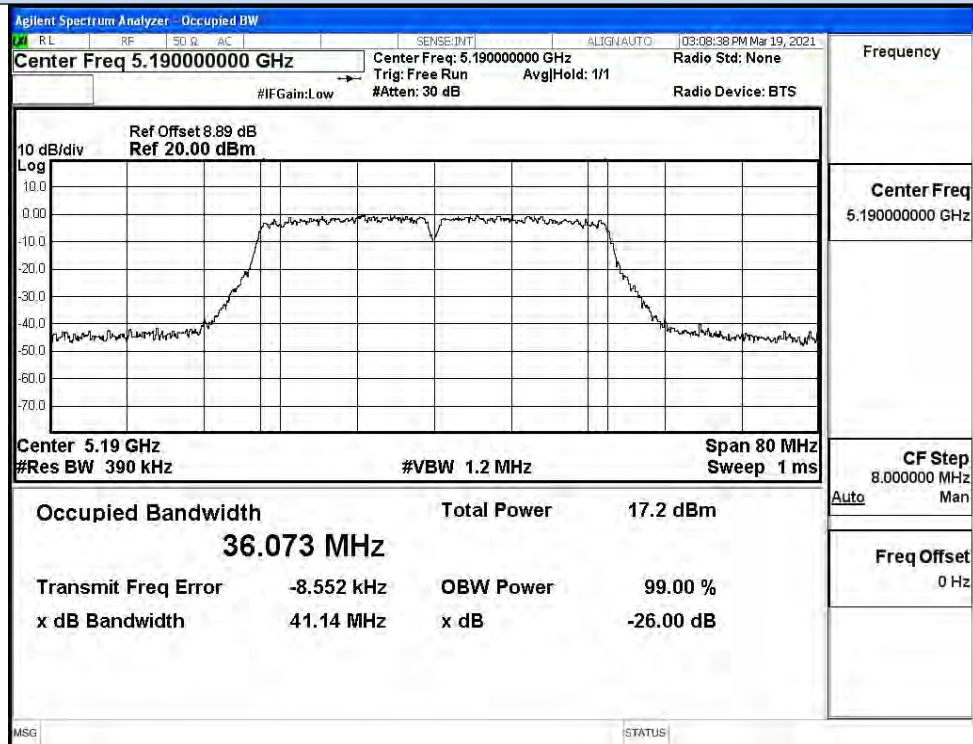


IEEE 802.11n20 / Channel 40 / 5200MHz

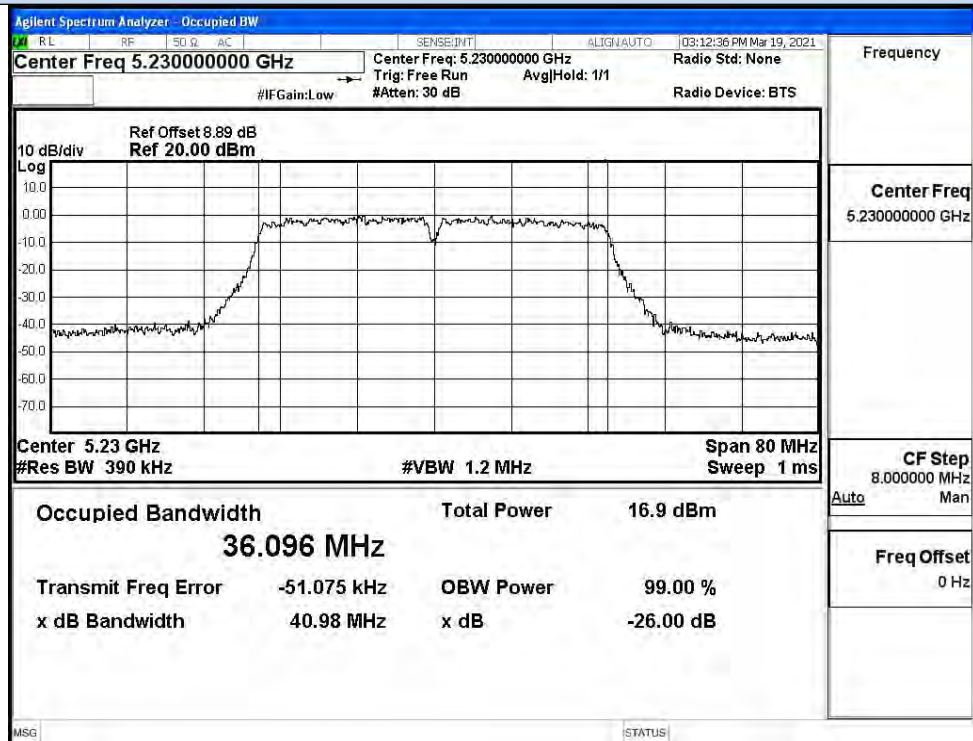


IEEE 802.11n20 / Channel 48 / 5240MHz

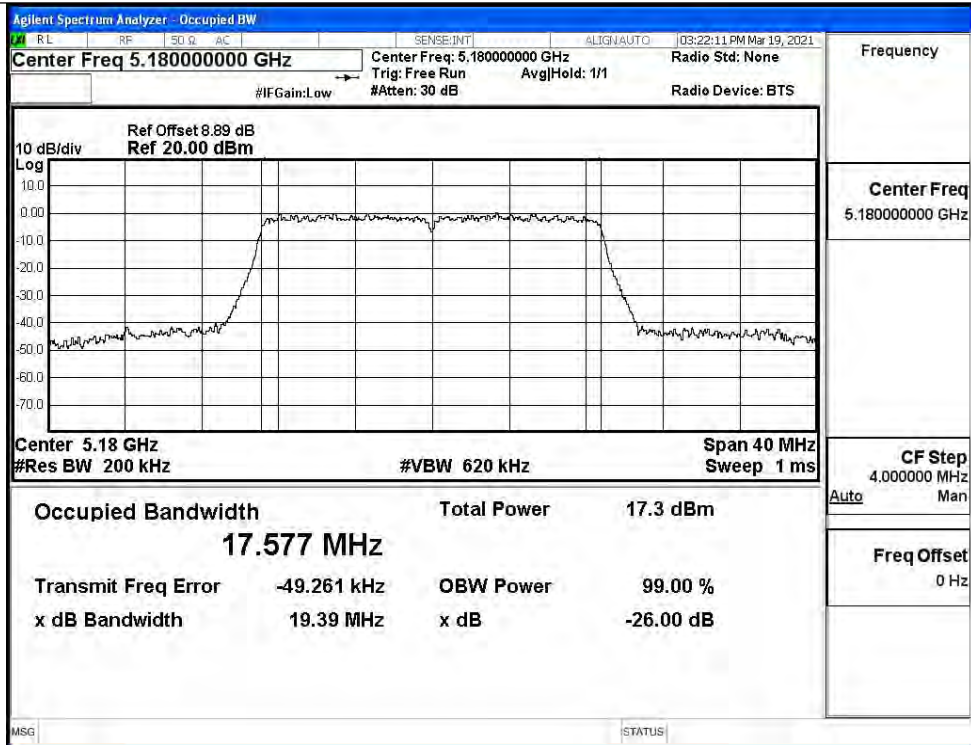
26dB Bandwidth



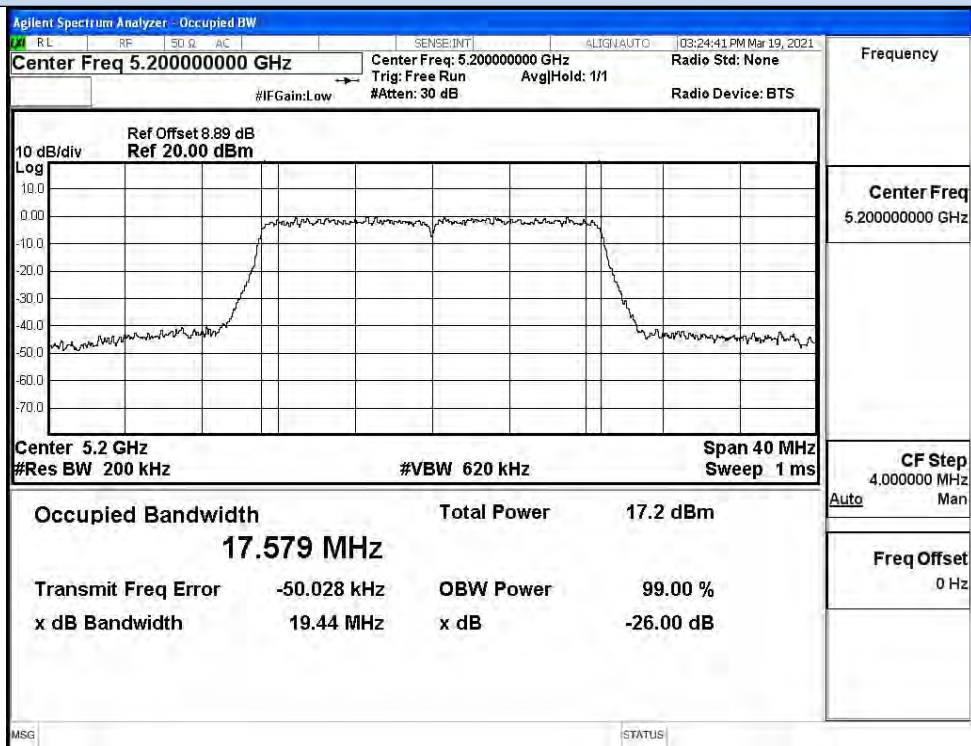
IEEE 802.11n40 / Channel 38 / 5190MHz



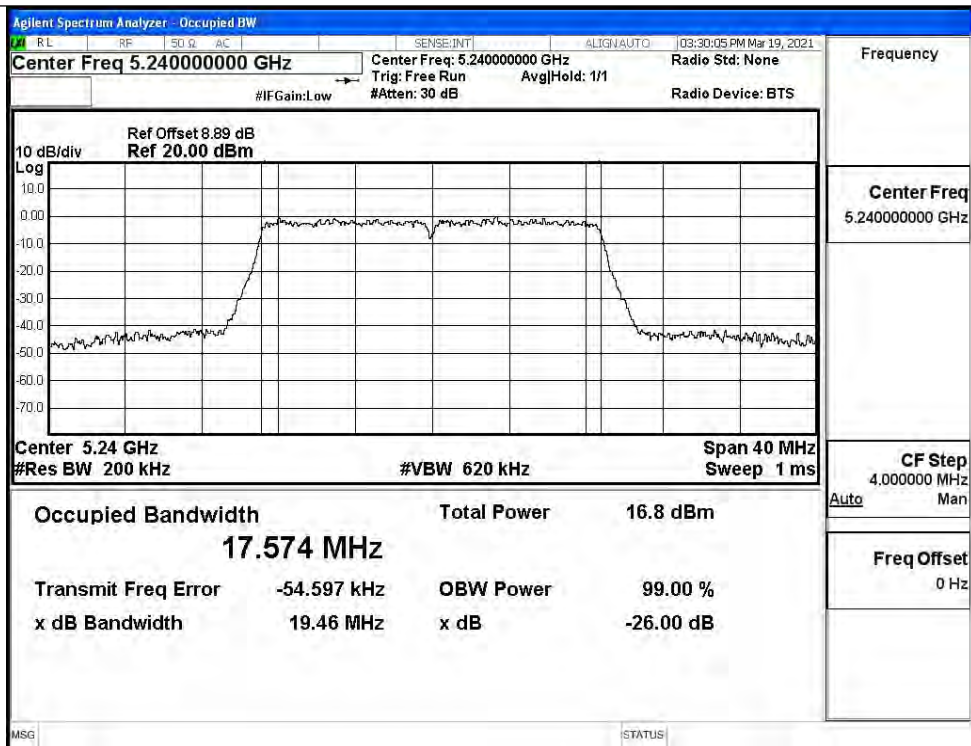
IEEE 802.11n40 / Channel 46 / 5230MHz



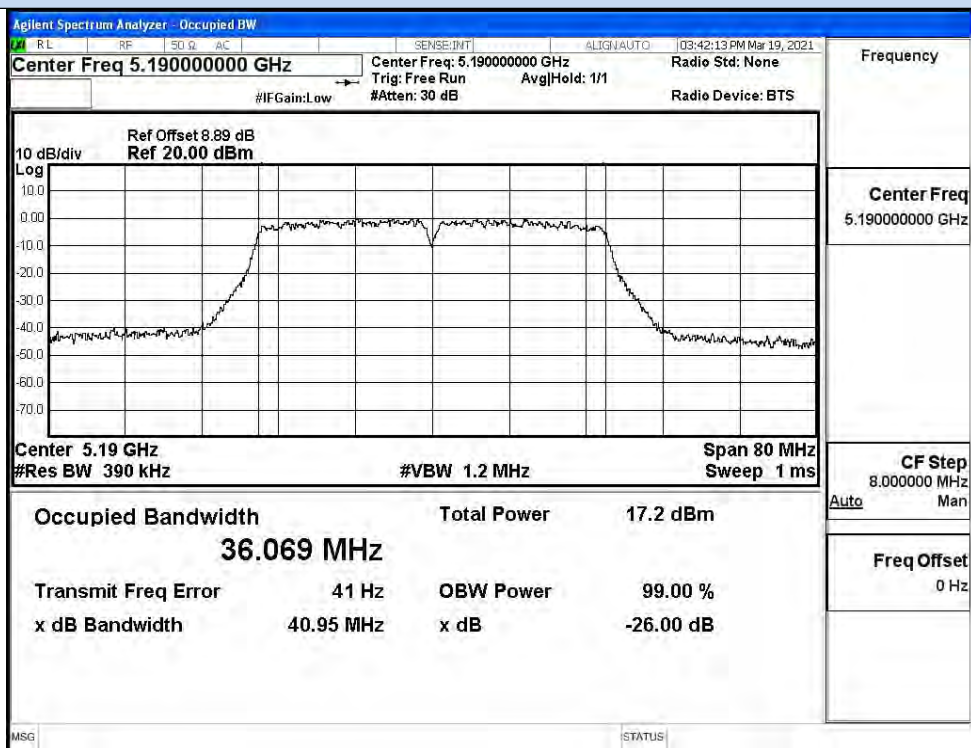
IEEE 802.11ac20 / Channel 36 / 5180MHz



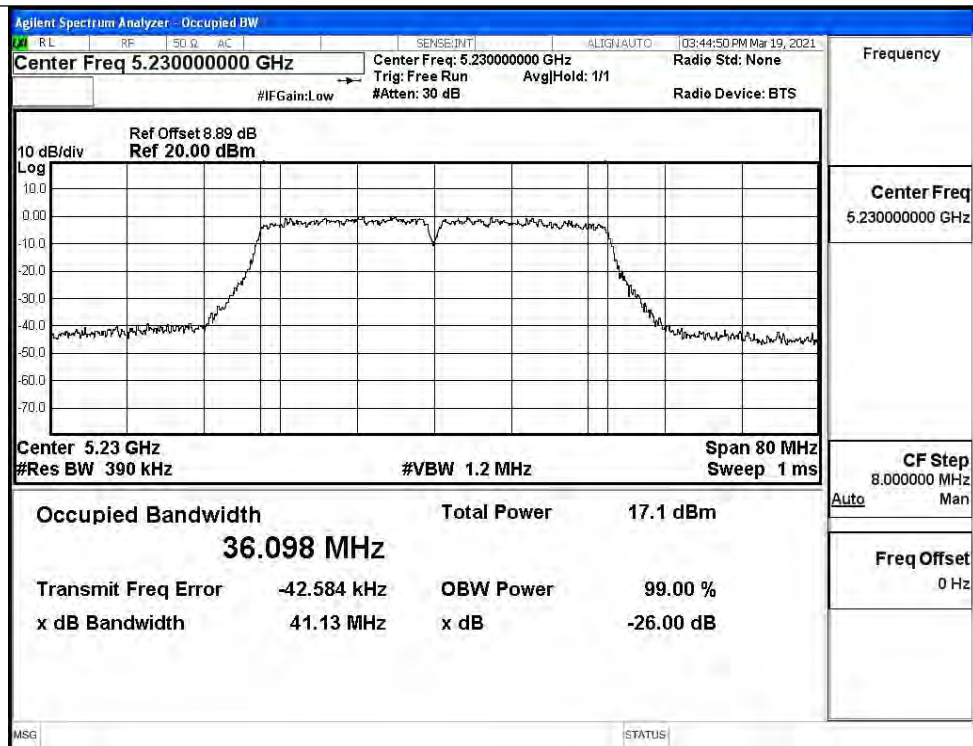
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz

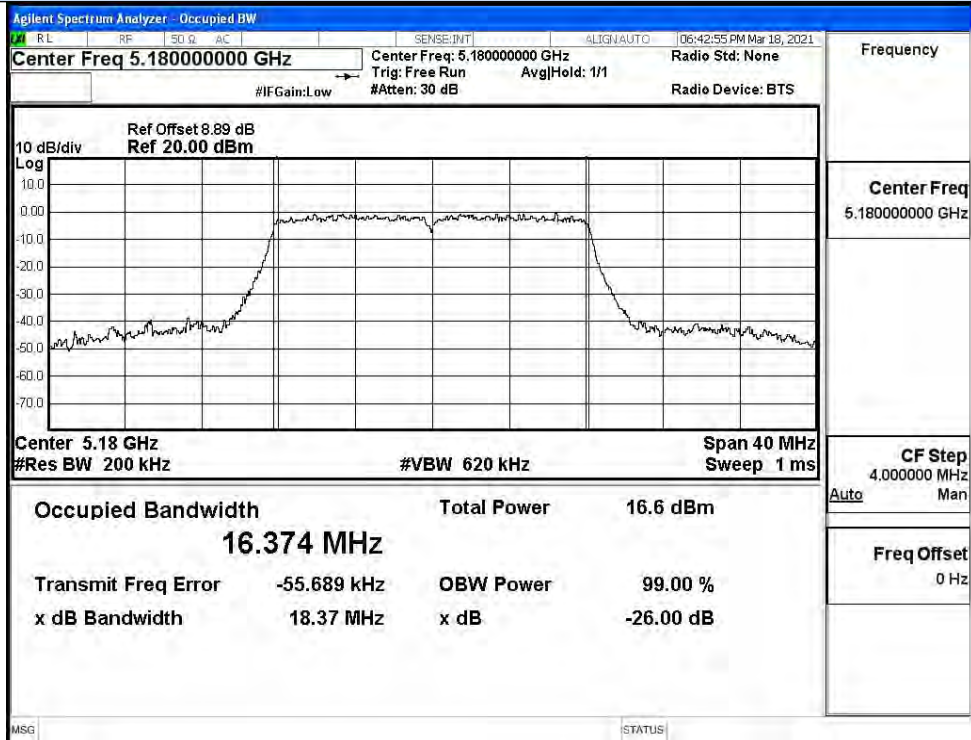


IEEE 802.11ac40 / Channel 46 / 5230MHz

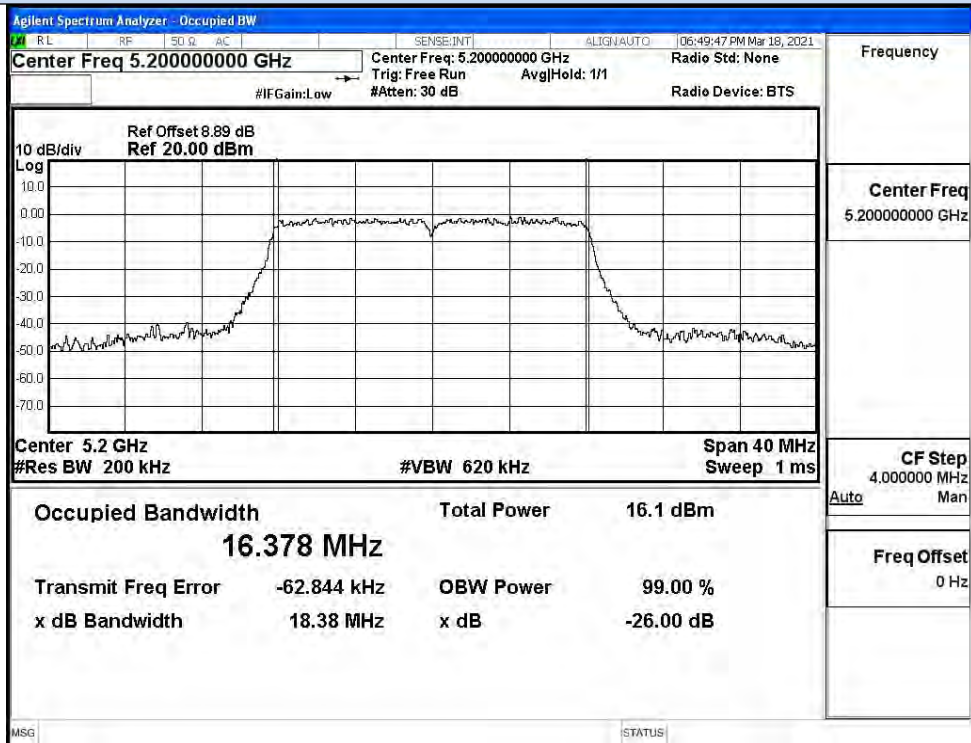
Ant1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	18.37	No Limit	Pass
	40	5200	18.38		Pass
	48	5240	18.44		Pass
11N20 SISO	36	5180	19.50	No Limit	Pass
	40	5200	19.48		Pass
	48	5240	19.51		Pass
11N40 SISO	38	5190	40.98	No Limit	Pass
	46	5230	40.80		Pass
11AC20 SISO	36	5180	19.45	No Limi	Pass
	40	5200	19.41		Pass
	48	5240	19.40		Pass
11AC40 SISO	38	5190	40.77	No Limi	Pass
	46	5230	40.96		Pass

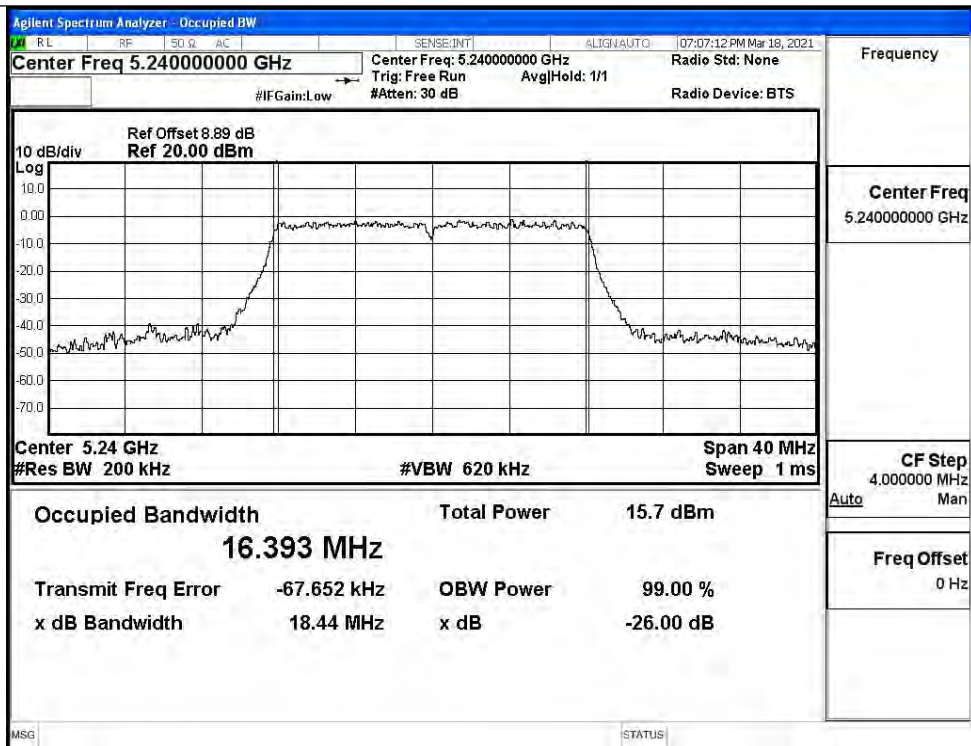
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

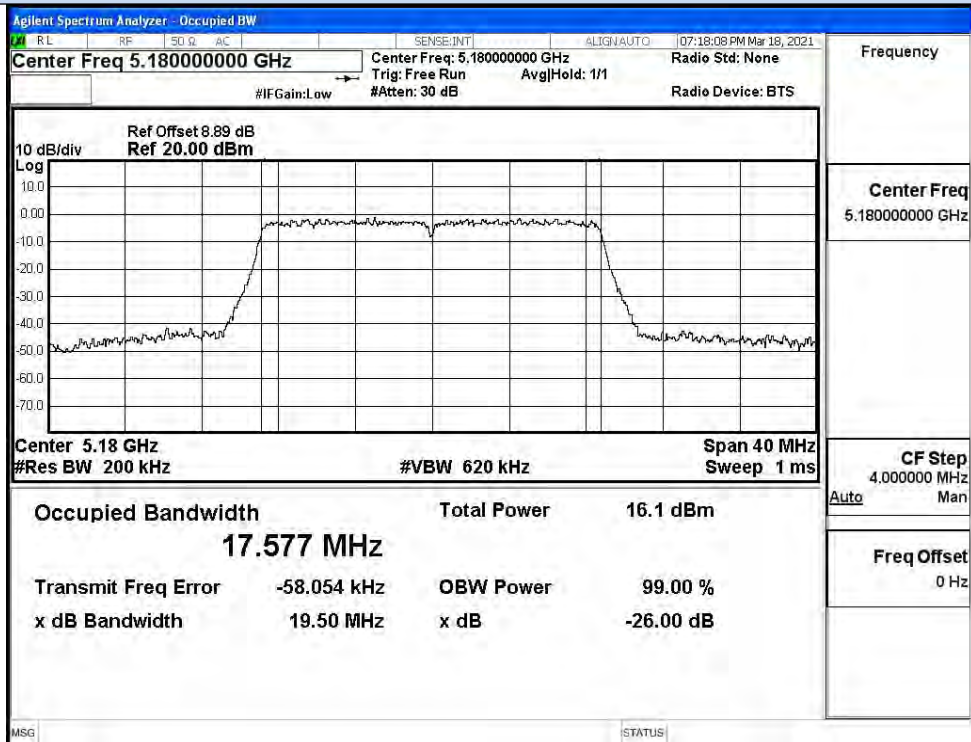


IEEE 802.11a / Channel 40 / 5200MHz

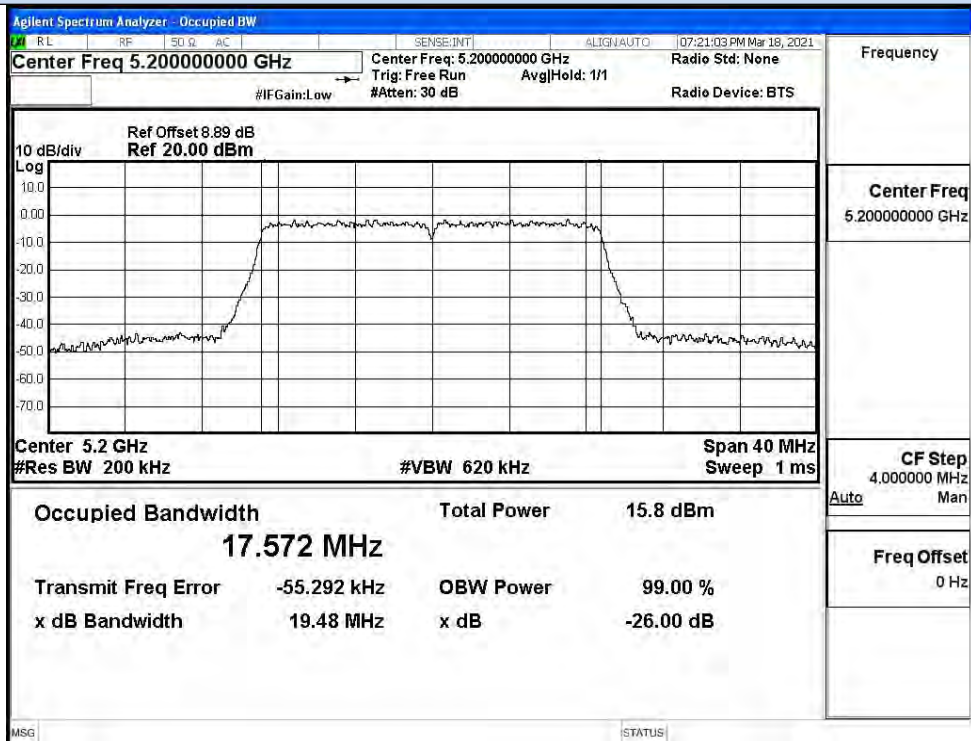


IEEE 802.11a / Channel 48 / 5240MHz

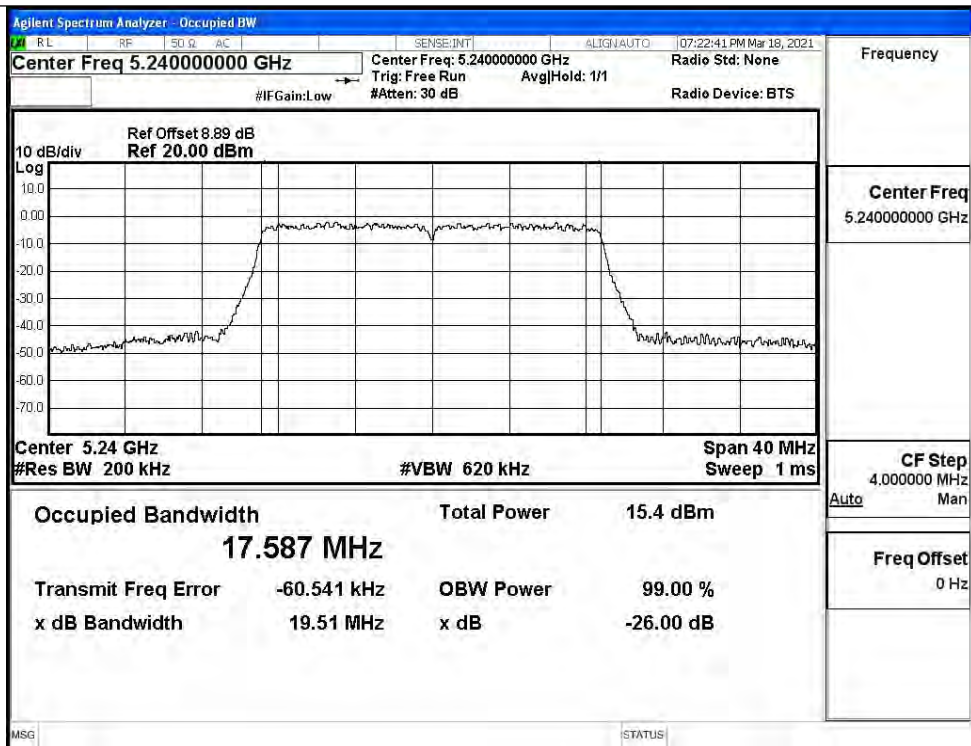
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

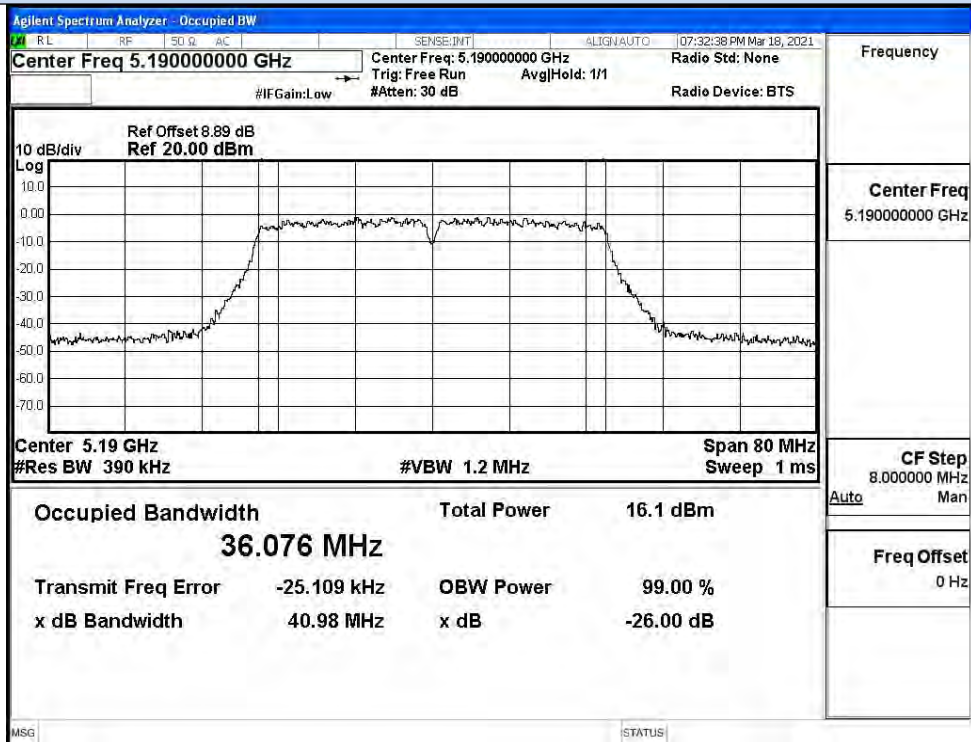


IEEE 802.11n20 / Channel 40 / 5200MHz

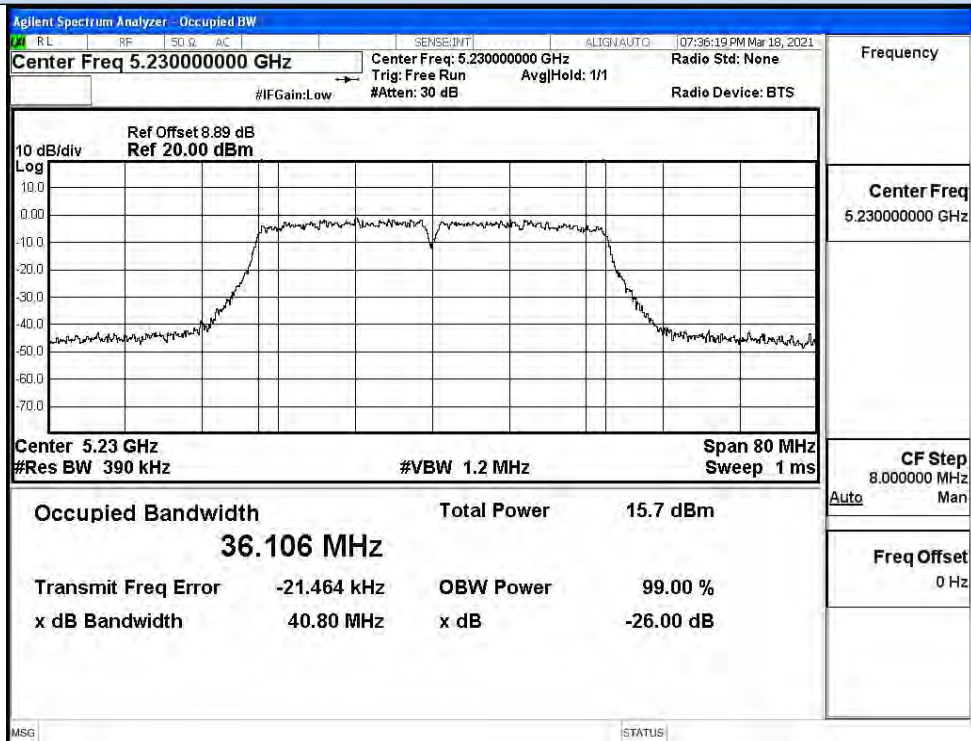


IEEE 802.11n20 / Channel 48 / 5240MHz

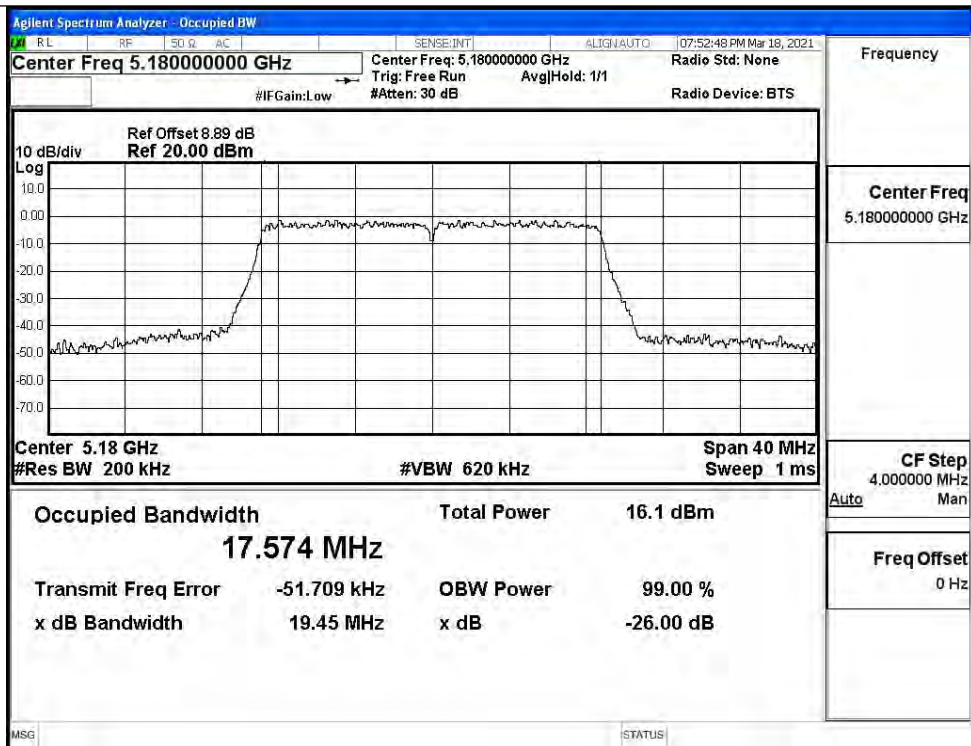
26dB Bandwidth



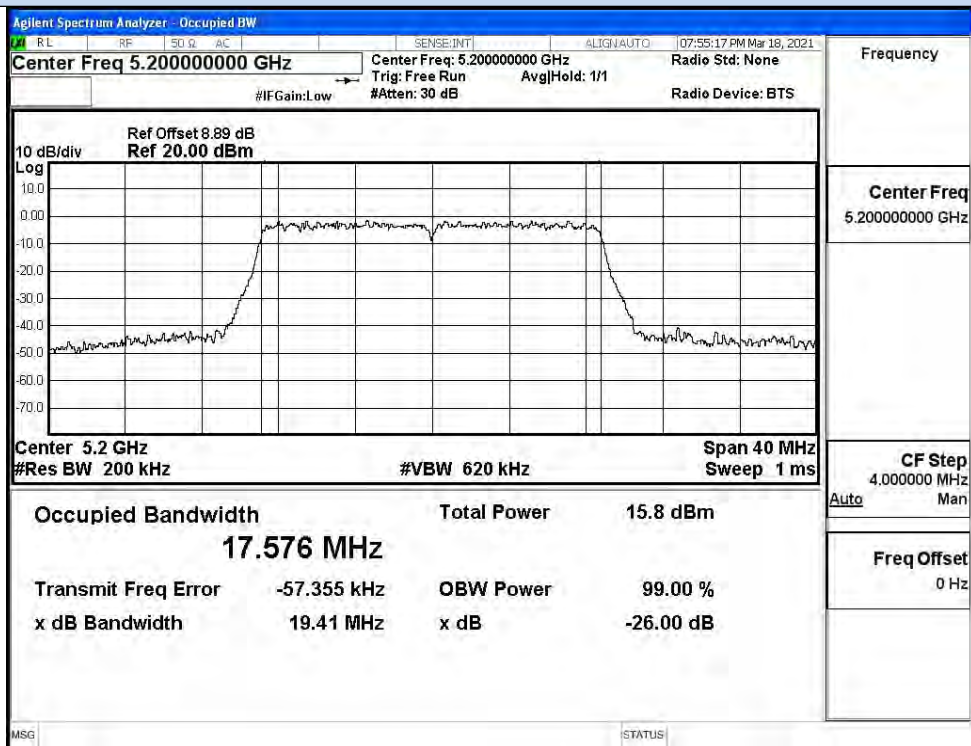
IEEE 802.11n40 / Channel 38 / 5190MHz



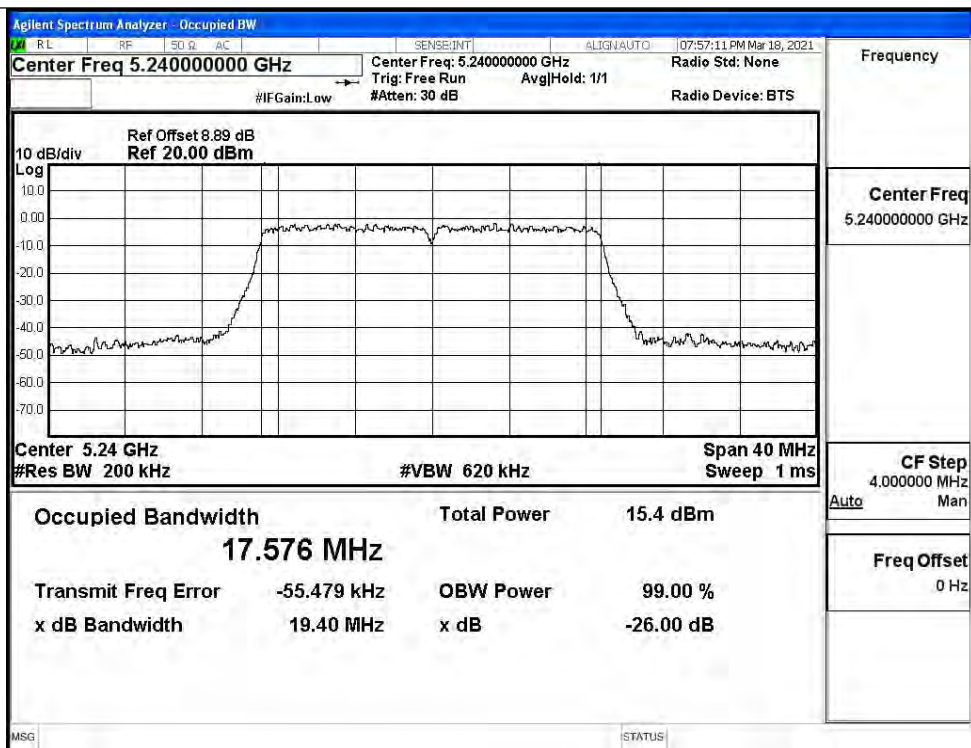
IEEE 802.11n40 / Channel 46 / 5230MHz



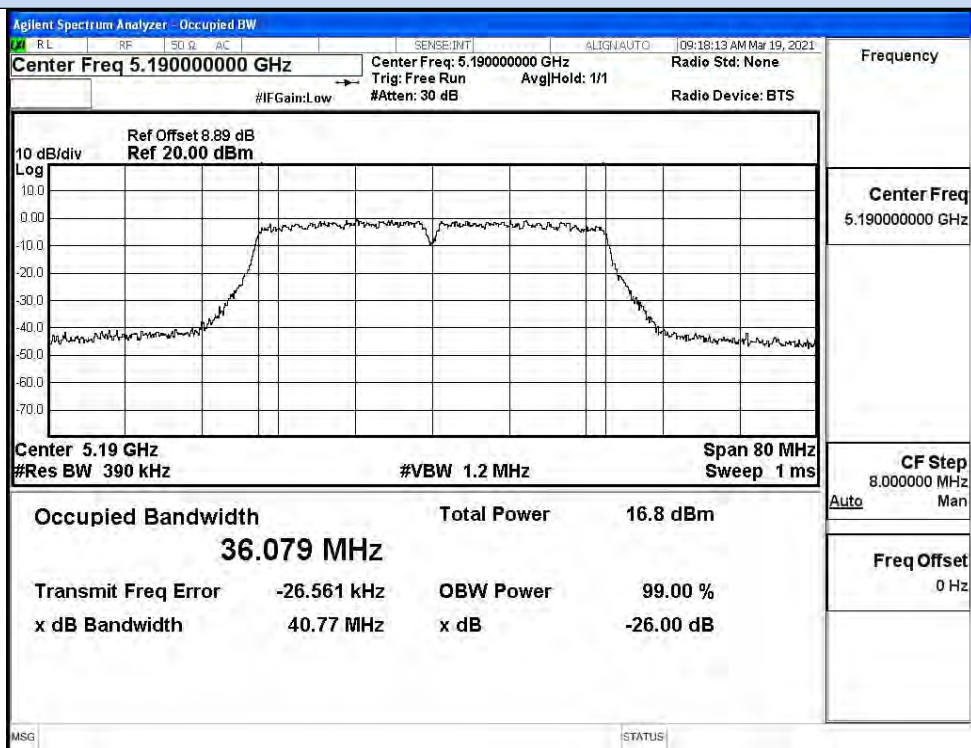
IEEE 802.11ac20 / Channel 36 / 5180MHz



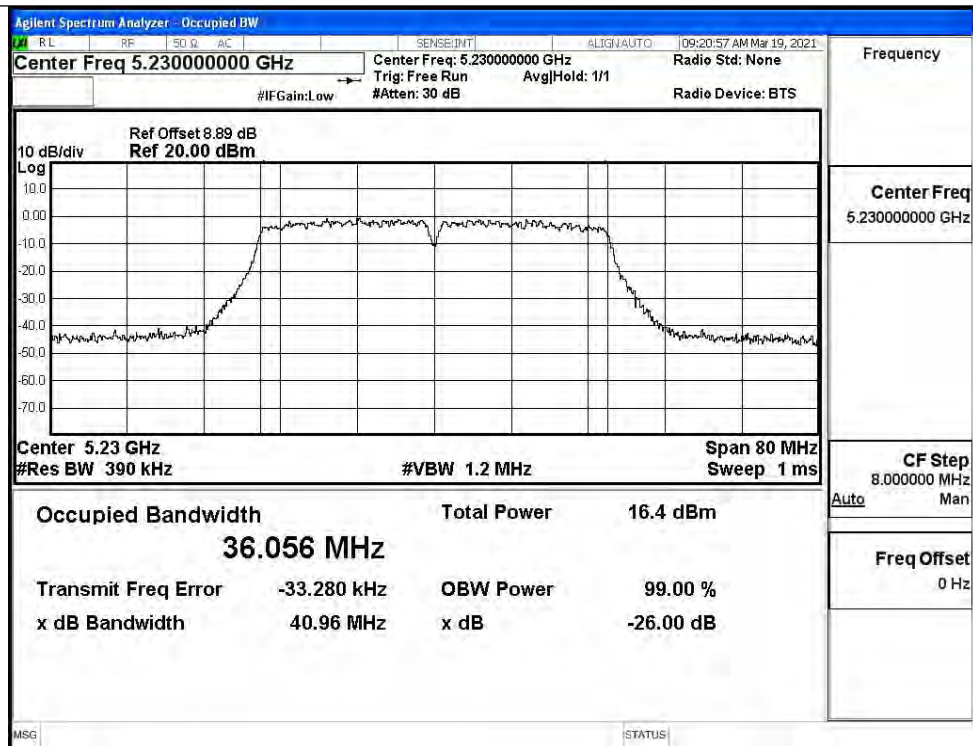
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



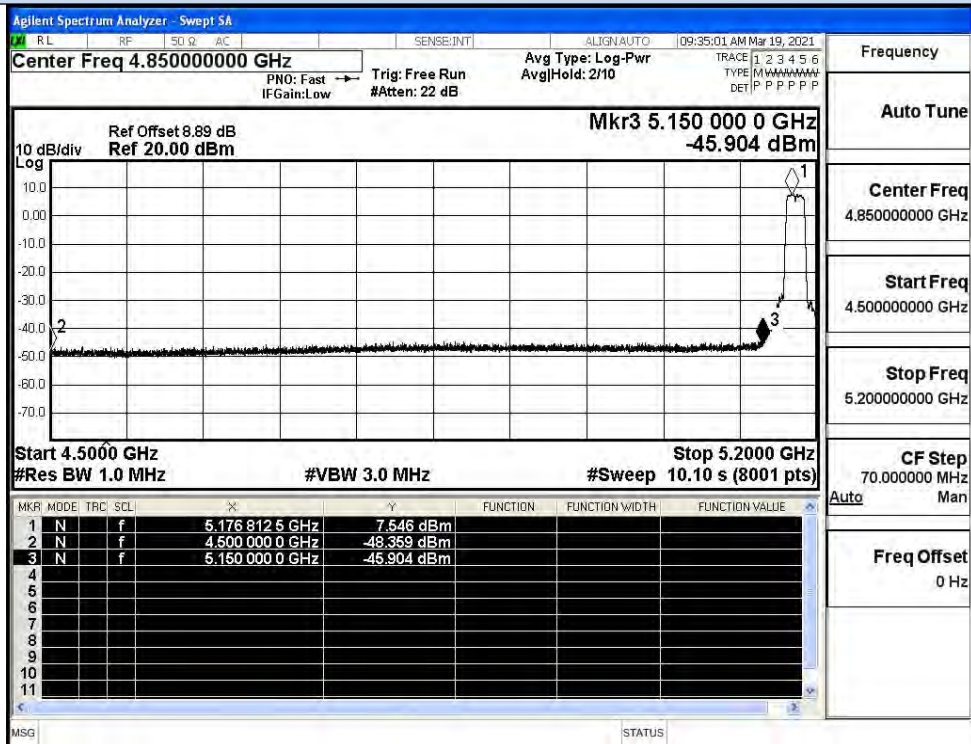
IEEE 802.11ac40 / Channel 46 / 5230MHz

D.5 Undesirable Emissions Measurement

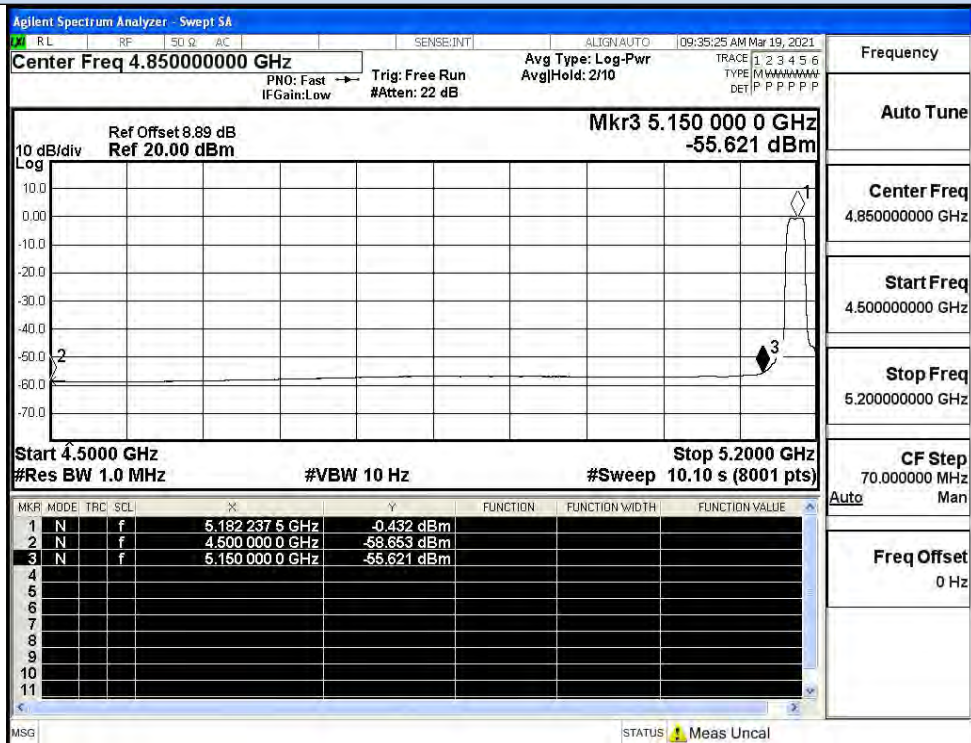
Ant0

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	-48.36	5.00	0	51.87	Peak	68.20	Pass
		4500.0	-58.65	5.00	0	41.58	Average	54.00	Pass
		5150.0	-45.90	5.00	0	54.33	Peak	68.20	Pass
		5150.0	-55.62	5.00	0	44.61	Average	54.00	Pass
	48	5350.0	-46.90	5.00	0	53.33	Peak	68.20	Pass
		5350.0	-57.57	5.00	0	42.66	Average	54.00	Pass
		5460.0	-47.74	5.00	0	52.49	Peak	68.20	Pass
		5460.0	-58.32	5.00	0	41.91	Average	54.00	Pass
11N2 0 SISO	36	4500.0	-48.87	5.00	0	51.36	Peak	68.20	Pass
		4500.0	-58.67	5.00	0	41.56	Average	54.00	Pass
		5150.0	-43.28	5.00	0	56.95	Peak	68.20	Pass
		5150.0	-55.50	5.00	0	44.73	Average	54.00	Pass
	48	5350.0	-47.53	5.00	0	52.70	Peak	68.20	Pass
		5350.0	-57.22	5.00	0	43.01	Average	54.00	Pass
		5460.0	-47.73	5.00	0	52.50	Peak	68.20	Pass
		5460.0	-58.13	5.00	0	42.10	Average	54.00	Pass
11N4 0 SISO	38	4500.0	-49.85	5.00	0	50.38	Peak	68.20	Pass
		4500.0	-59.29	5.00	0	40.94	Average	54.00	Pass
		5150.0	-41.08	5.00	0	59.15	Peak	68.20	Pass
		5150.0	-51.86	5.00	0	48.37	Average	54.00	Pass
	46	5350.0	-46.65	5.00	0	53.58	Peak	68.20	Pass
		5350.0	-57.13	5.00	0	43.10	Average	54.00	Pass
		5460.0	-46.28	5.00	0	53.95	Peak	68.20	Pass
		5460.0	-56.95	5.00	0	43.28	Average	54.00	Pass
11A C20 SIS O	36	4500.0	-48.22	5.00	0	52.01	Peak	68.20	Pass
		4500.0	-58.49	5.00	0	41.74	Average	54.00	Pass
		5150.0	-42.93	5.00	0	57.30	Peak	68.20	Pass
		5150.0	-55.14	5.00	0	45.09	Average	54.00	Pass
	48	4500.0	-48.22	5.00	0	52.01	Peak	68.20	Pass
		4500.0	-58.49	5.00	0	41.74	Average	54.00	Pass
		5150.0	-42.93	5.00	0	57.30	Peak	68.20	Pass
		5150.0	-55.14	5.00	0	45.09	Average	54.00	Pass
11A C40 SIS O	38	4500.0	-47.78	5.00	0	52.45	Peak	68.20	Pass
		4500.0	-58.53	5.00	0	41.70	Average	54.00	Pass
		5150.0	-39.15	5.00	0	61.08	Peak	68.20	Pass
		5150.0	-50.04	5.00	0	50.19	Average	54.00	Pass
	46	5350.0	-46.45	5.00	0	53.78	Peak	68.20	Pass
		5350.0	-57.13	5.00	0	43.10	Average	54.00	Pass
		5460.0	-46.77	5.00	0	53.46	Peak	68.20	Pass
		5460.0	-57.00	5.00	0	43.23	Average	54.00	Pass

Undesirable Emissions Measurement

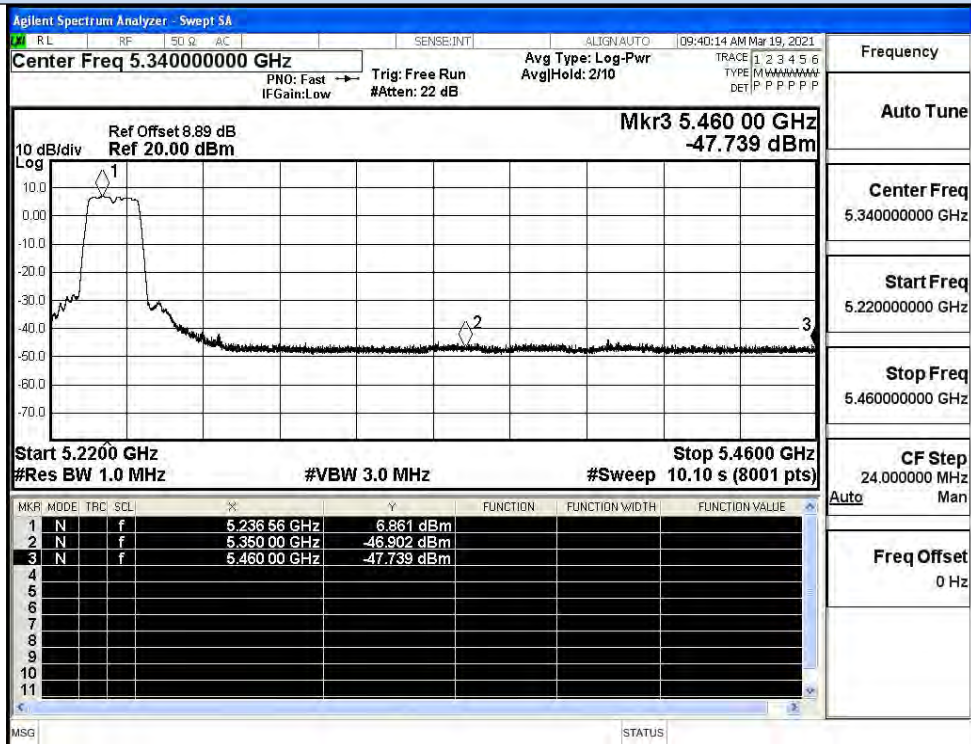


IEEE 802.11a / Channel 36 / 5180MHz / Peak

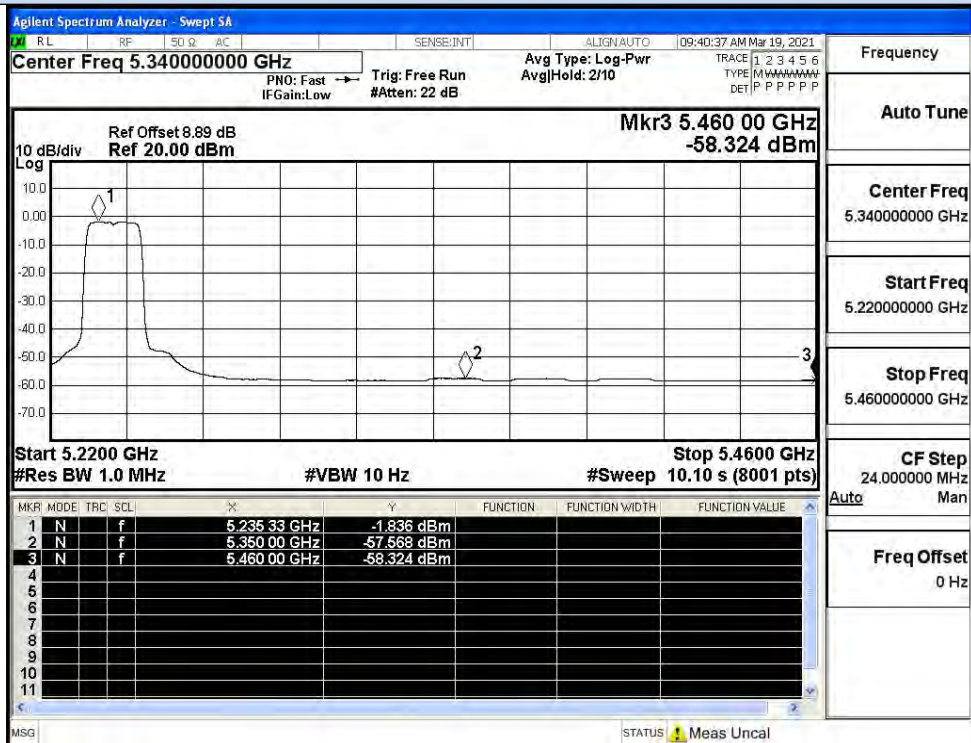


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

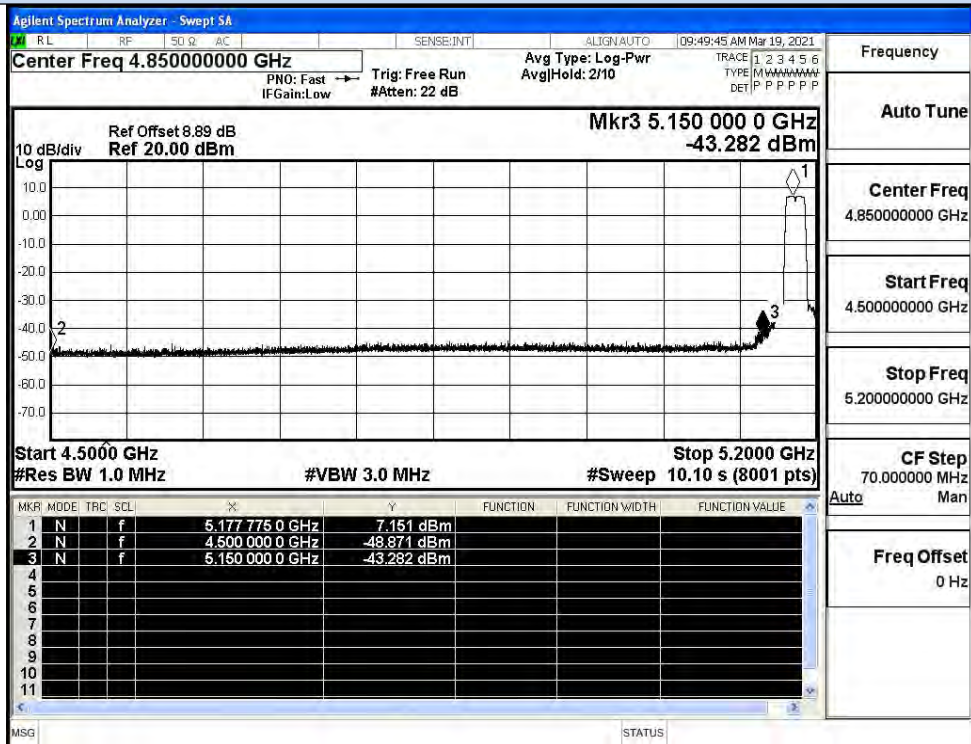


IEEE 802.11a / Channel 48 / 5240MHz / Peak

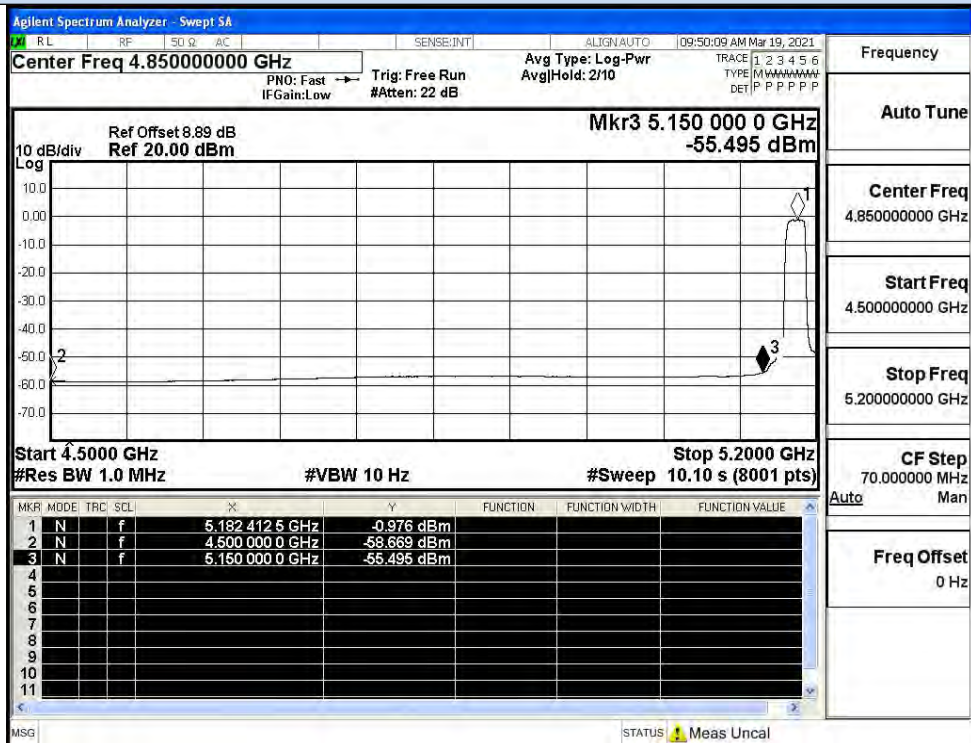


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

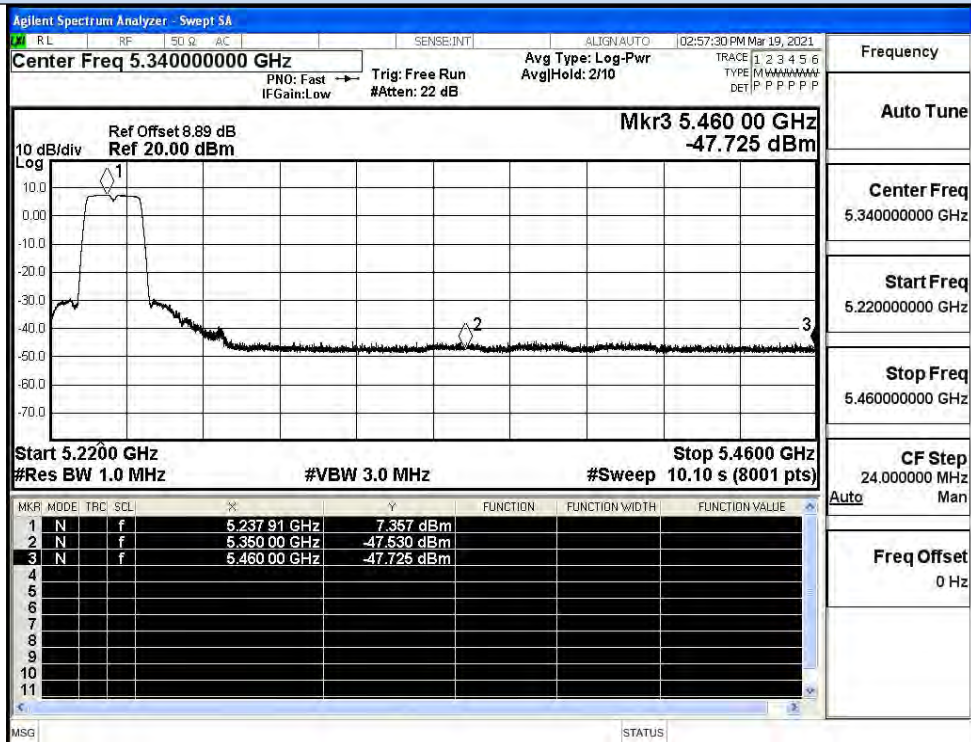


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

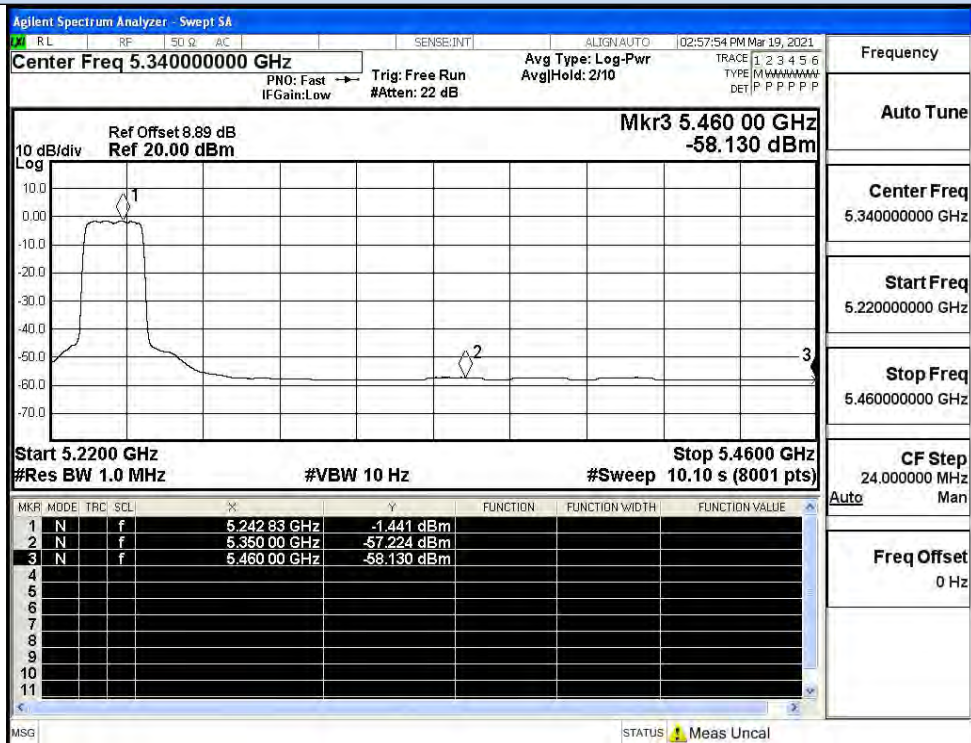


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

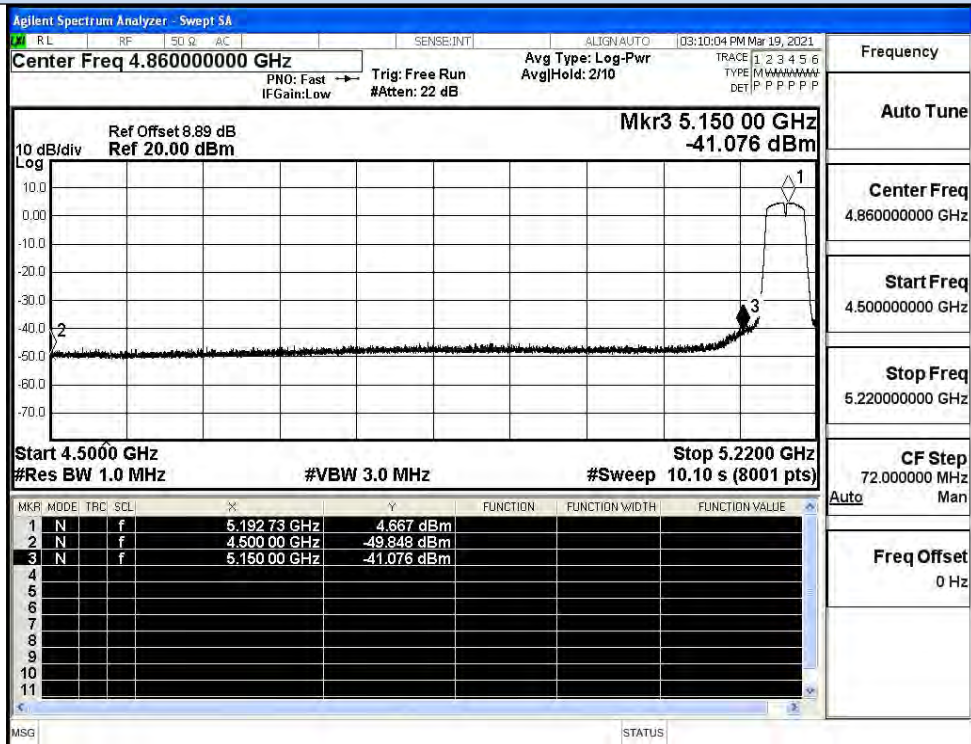


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

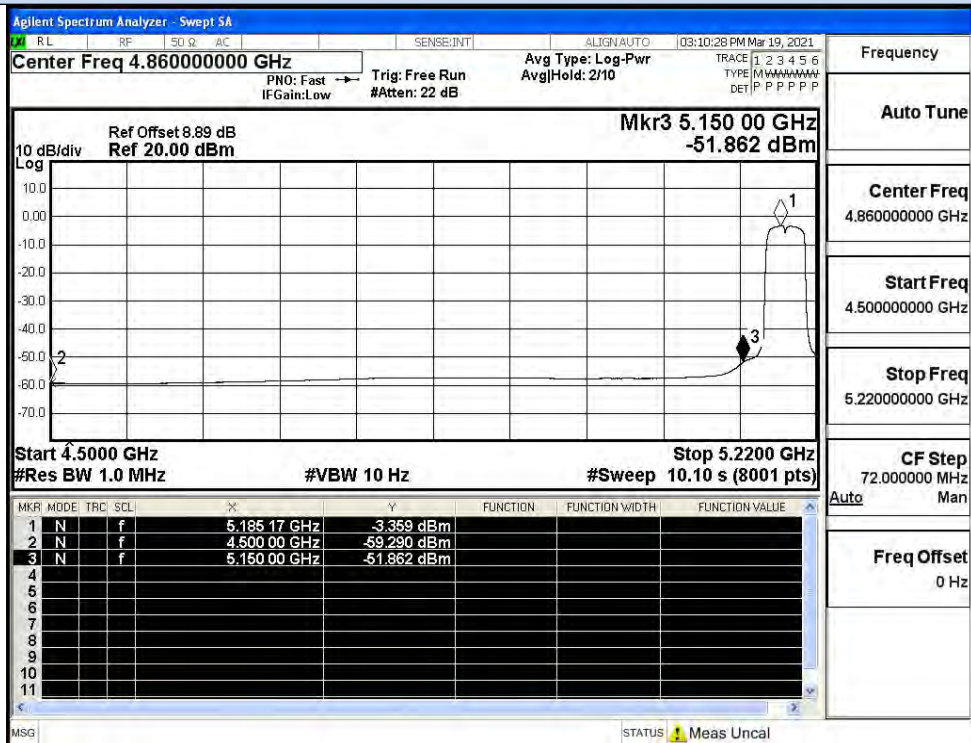


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

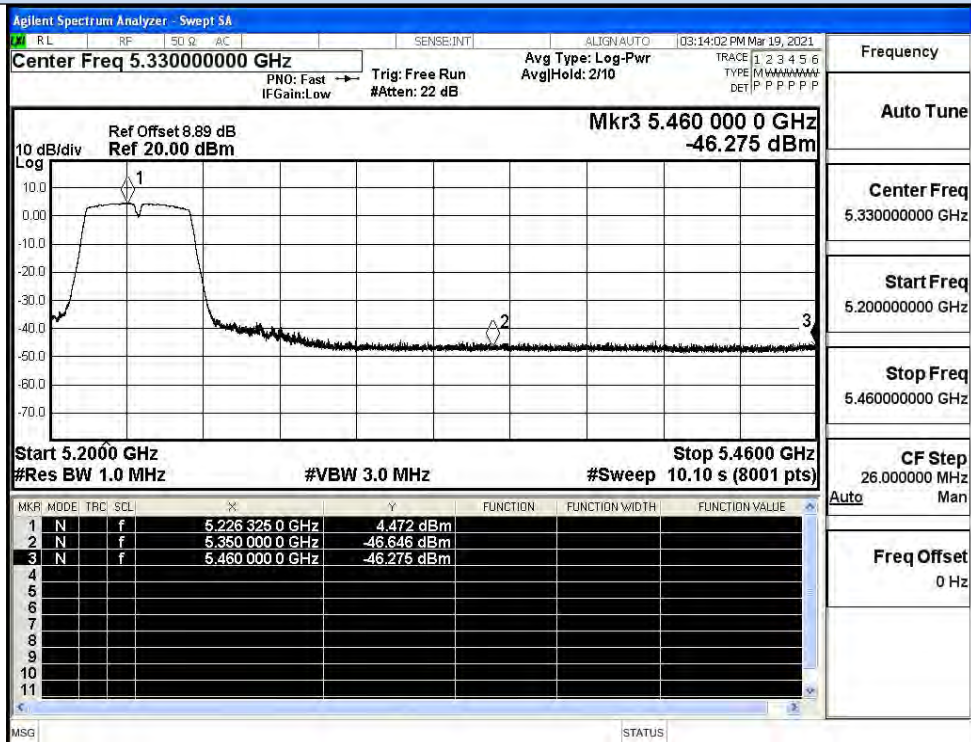


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

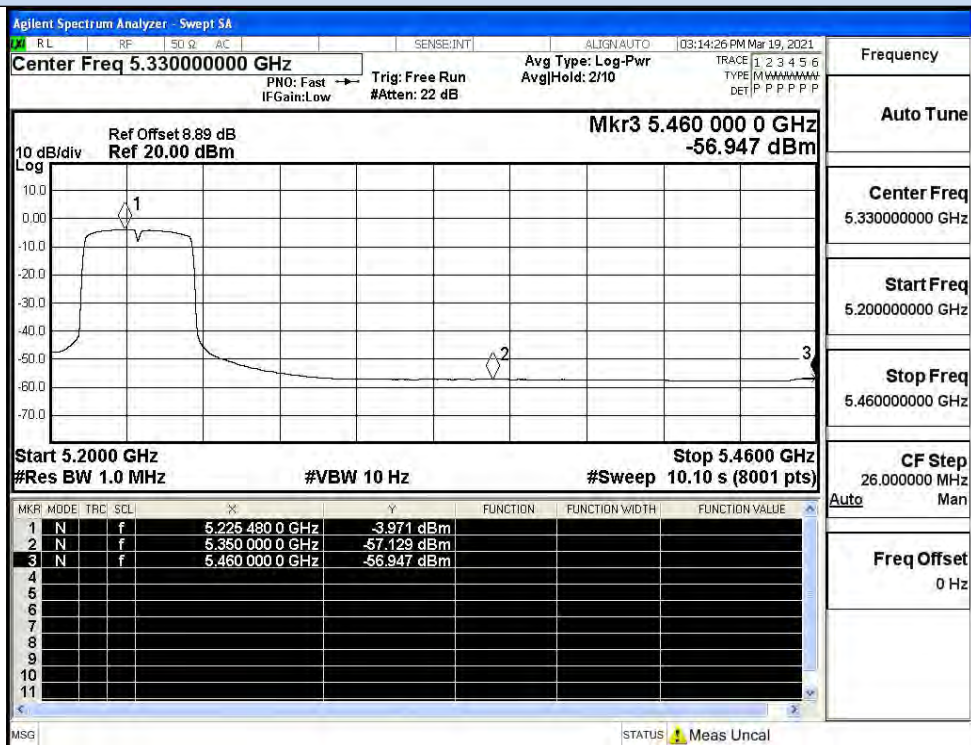


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

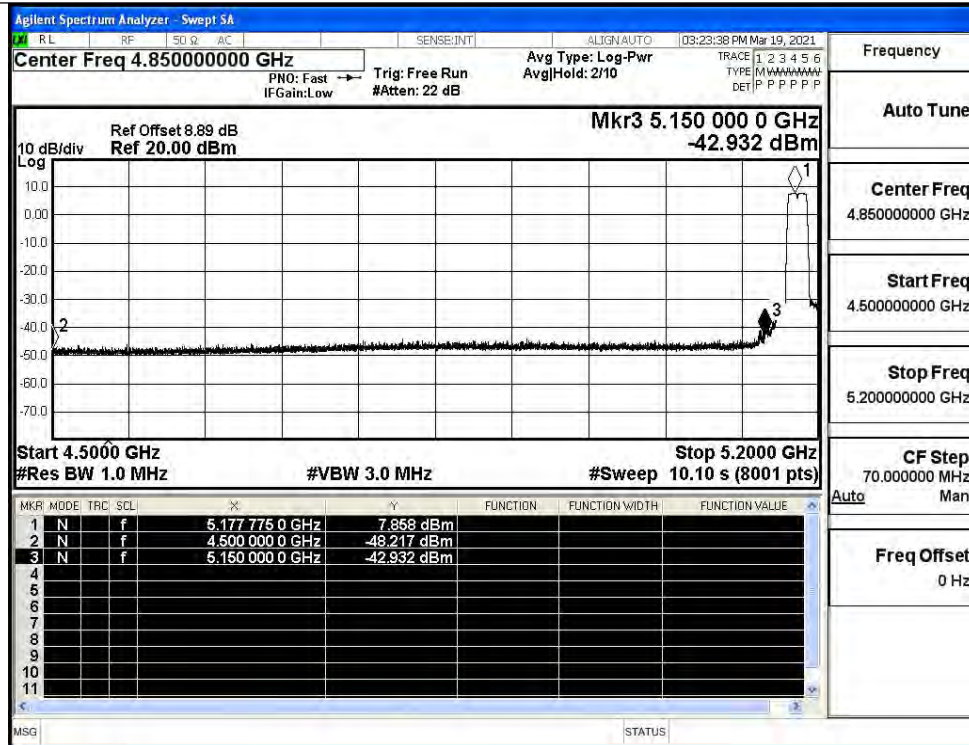
Undesirable Emissions Measurement



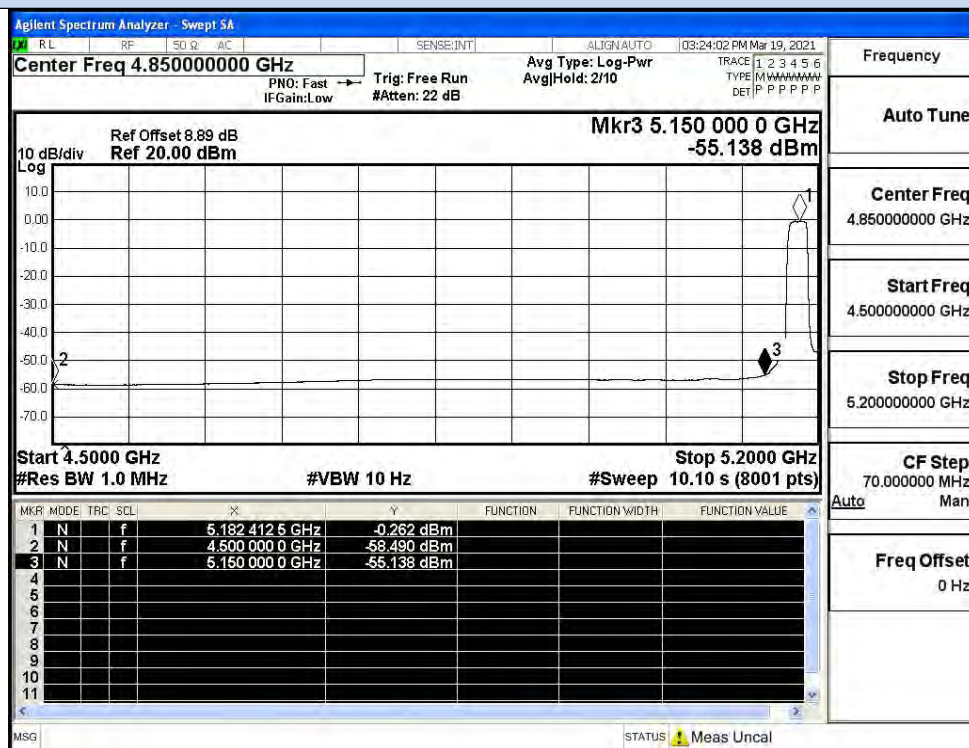
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



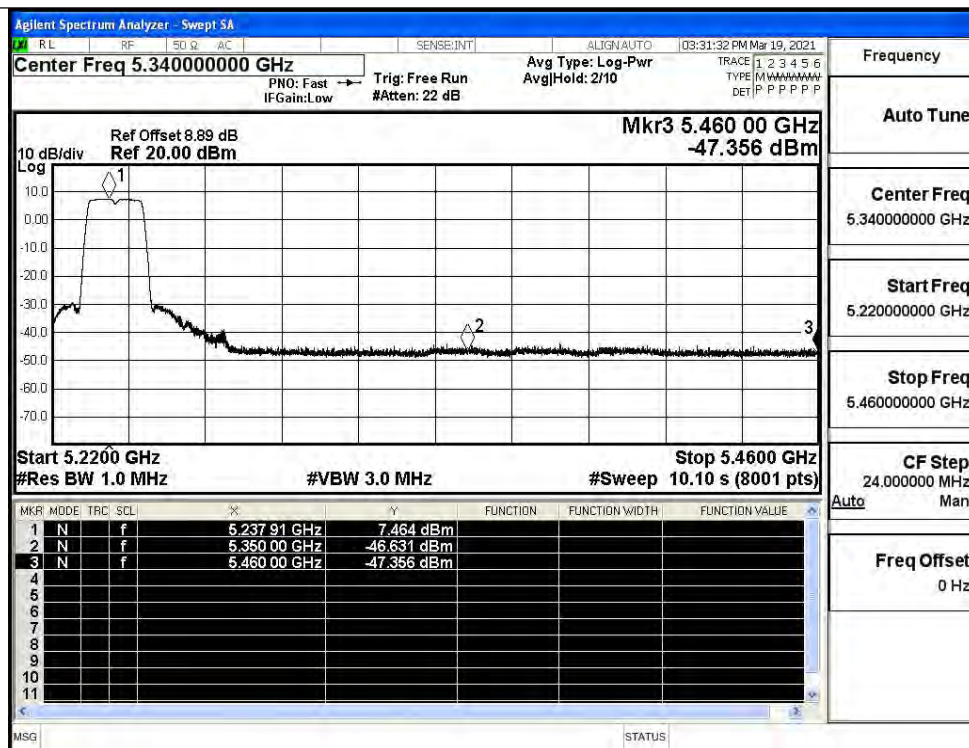
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



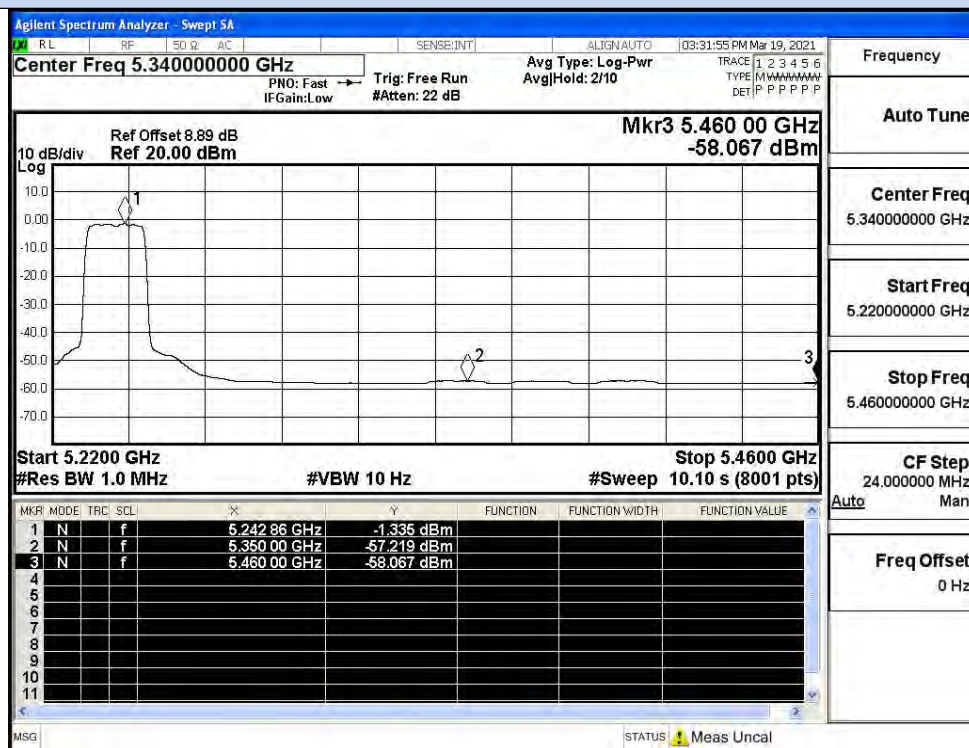
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



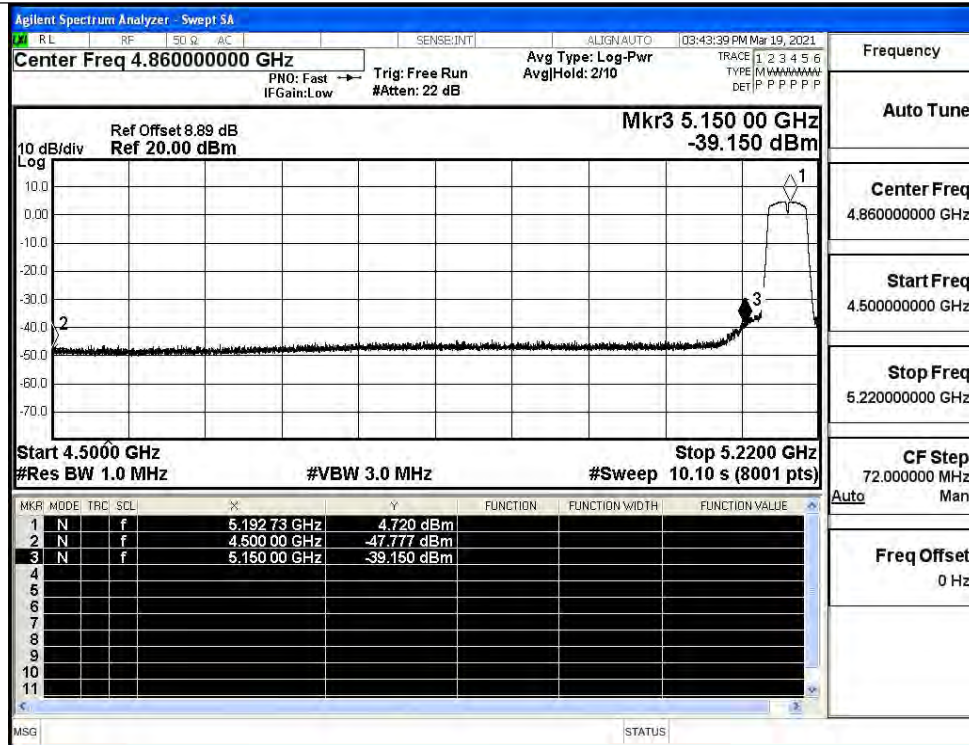
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



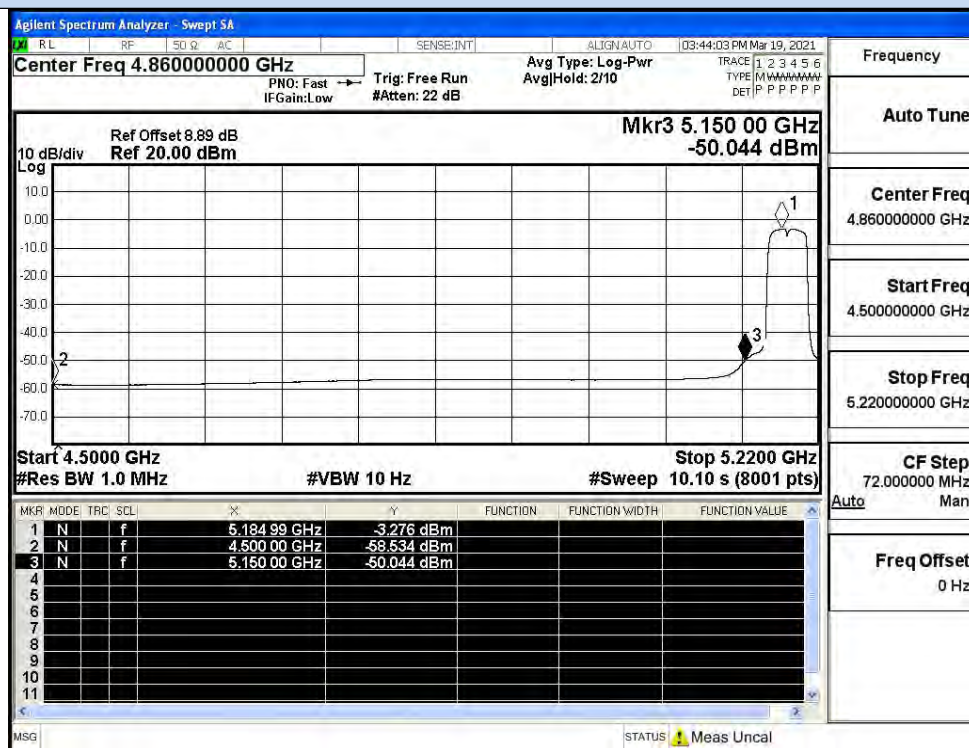
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



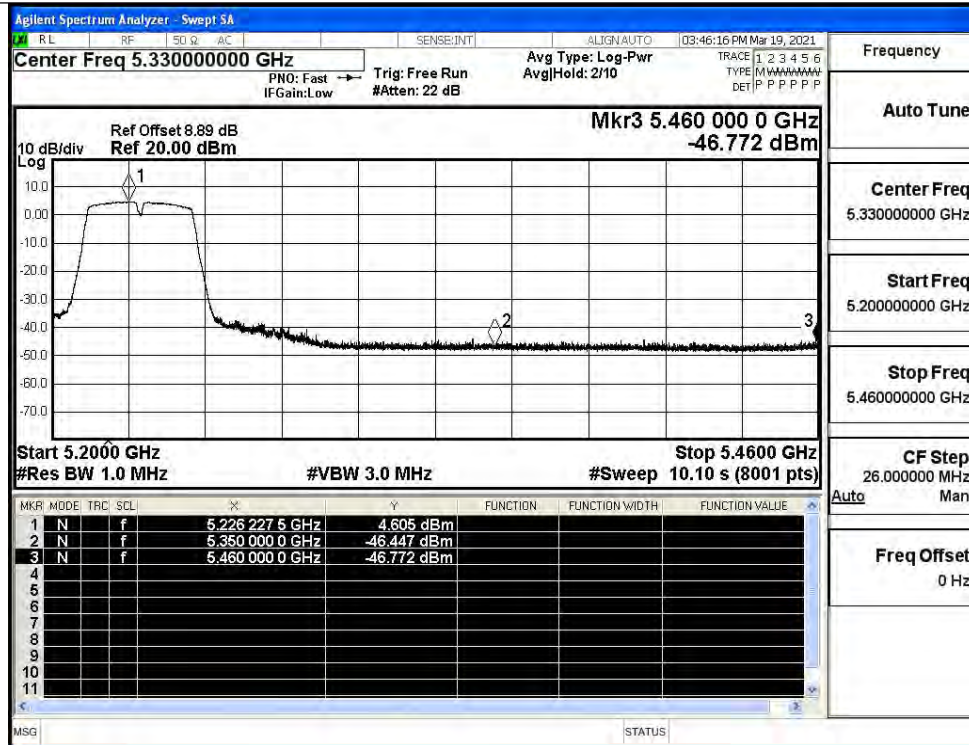
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



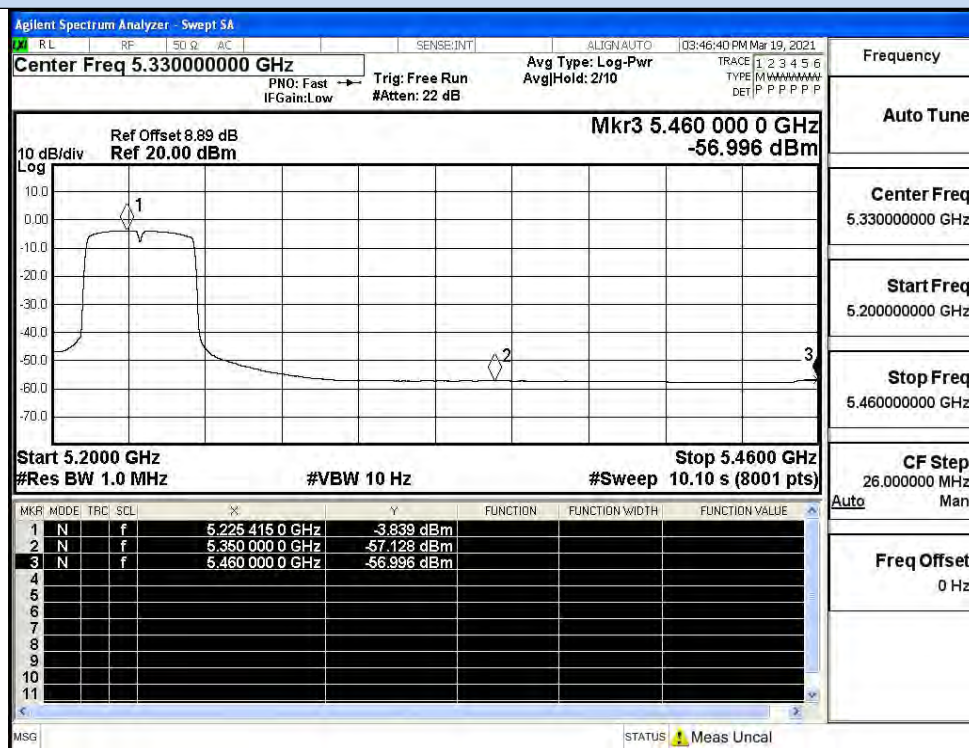
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak

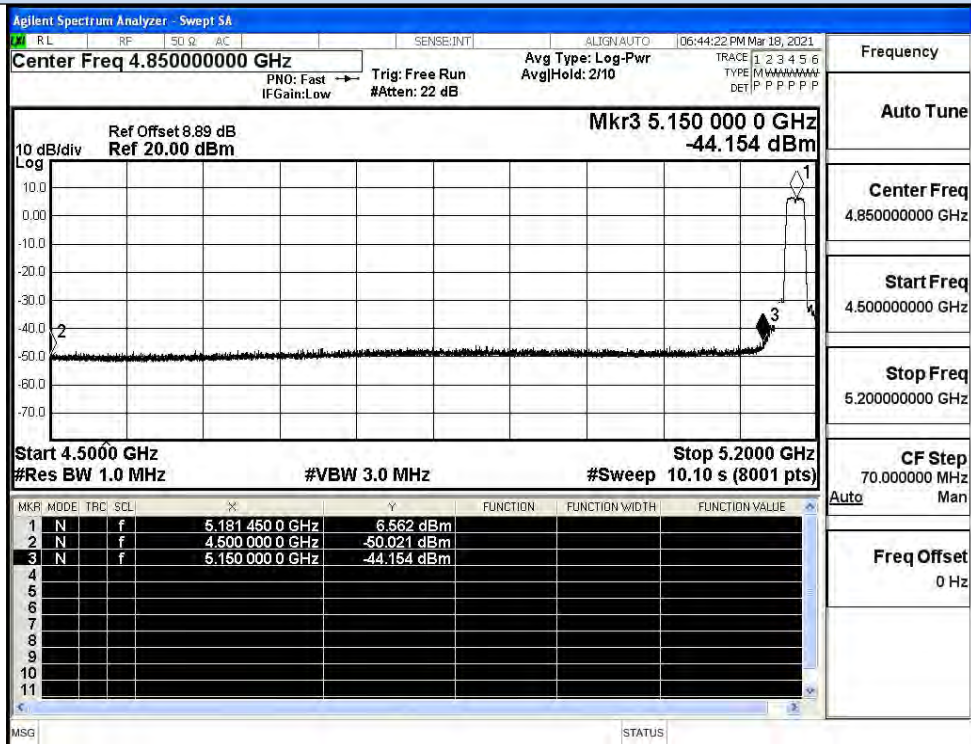


IEEE 802.11ac40 / Channel 46 / 5230MHz / Average

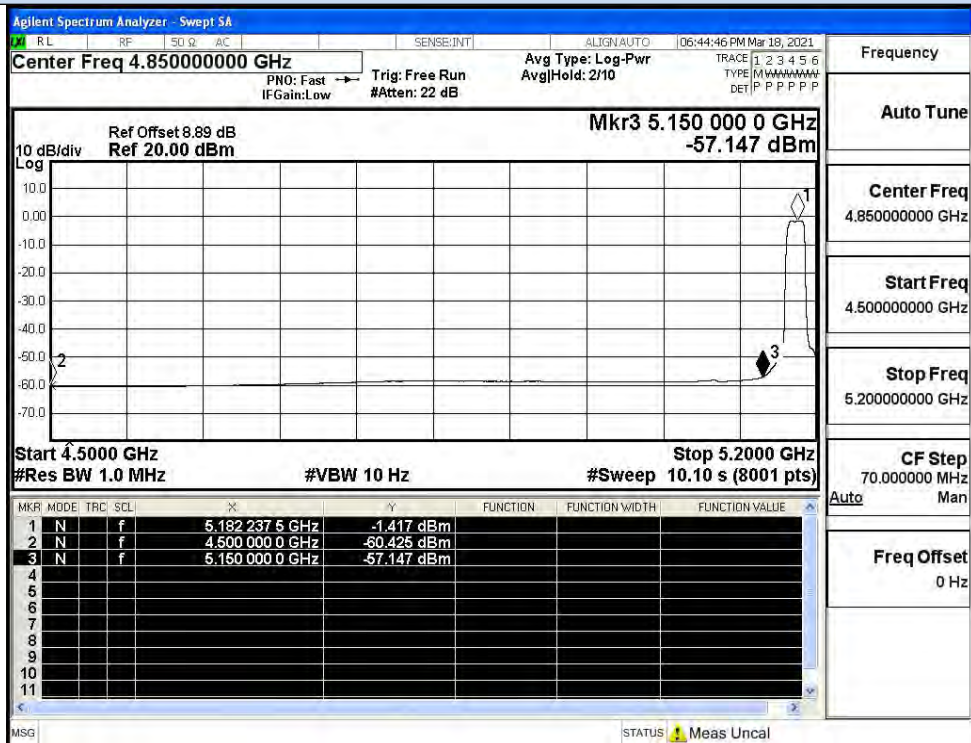
Ant1

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	-50.02	5.00	0	50.21	Peak	68.20	Pass
		4500.0	-60.43	5.00	0	39.80	Average	54.00	Pass
		5150.0	-44.15	5.00	0	56.08	Peak	68.20	Pass
		5150.0	-57.15	5.00	0	43.08	Average	54.00	Pass
	48	5350.0	-48.12	5.00	0	52.11	Peak	68.20	Pass
		5350.0	-58.57	5.00	0	41.66	Average	54.00	Pass
		5460.0	-48.67	5.00	0	51.56	Peak	68.20	Pass
		5460.0	-59.31	5.00	0	40.92	Average	54.00	Pass
11N2 0 SISO	36	4500.0	-50.72	5.00	0	49.51	Peak	68.20	Pass
		4500.0	-60.40	5.00	0	39.83	Average	54.00	Pass
		5150.0	-45.09	5.00	0	55.14	Peak	68.20	Pass
		5150.0	-57.06	5.00	0	43.17	Average	54.00	Pass
	48	5350.0	-48.08	5.00	0	52.15	Peak	68.20	Pass
		5350.0	-58.59	5.00	0	41.64	Average	54.00	Pass
		5460.0	-48.11	5.00	0	52.12	Peak	68.20	Pass
		5460.0	-59.31	5.00	0	40.92	Average	54.00	Pass
11N4 0 SISO	38	4500.0	-50.69	5.00	0	49.54	Peak	68.20	Pass
		4500.0	-60.46	5.00	0	39.77	Average	54.00	Pass
		5150.0	-42.35	5.00	0	57.88	Peak	68.20	Pass
		5150.0	-53.44	5.00	0	46.79	Average	54.00	Pass
	46	5350.0	-49.02	5.00	0	51.21	Peak	68.20	Pass
		5350.0	-58.46	5.00	0	41.77	Average	54.00	Pass
		5460.0	-49.06	5.00	0	51.17	Peak	68.20	Pass
		5460.0	-58.46	5.00	0	41.77	Average	54.00	Pass
11A C20 SIS O	36	4500.0	-50.83	5.00	0	49.40	Peak	68.20	Pass
		4500.0	-60.47	5.00	0	39.76	Average	54.00	Pass
		5150.0	-43.96	5.00	0	56.27	Peak	68.20	Pass
		5150.0	-56.98	5.00	0	43.25	Average	54.00	Pass
	48	4500.0	-50.83	5.00	0	49.40	Peak	68.20	Pass
		4500.0	-60.47	5.00	0	39.76	Average	54.00	Pass
		5150.0	-43.96	5.00	0	56.27	Peak	68.20	Pass
		5150.0	-56.98	5.00	0	43.25	Average	54.00	Pass
11A C40 SIS O	38	4500.0	-48.52	5.00	0	51.71	Peak	68.20	Pass
		4500.0	-58.68	5.00	0	41.55	Average	54.00	Pass
		5150.0	-39.62	5.00	0	60.61	Peak	68.20	Pass
		5150.0	-50.82	5.00	0	49.41	Average	54.00	Pass
	46	5350.0	-47.15	5.00	0	53.08	Peak	68.20	Pass
		5350.0	-57.52	5.00	0	42.71	Average	54.00	Pass
		5460.0	-46.84	5.00	0	53.39	Peak	68.20	Pass
		5460.0	-57.76	5.00	0	42.47	Average	54.00	Pass

Undesirable Emissions Measurement

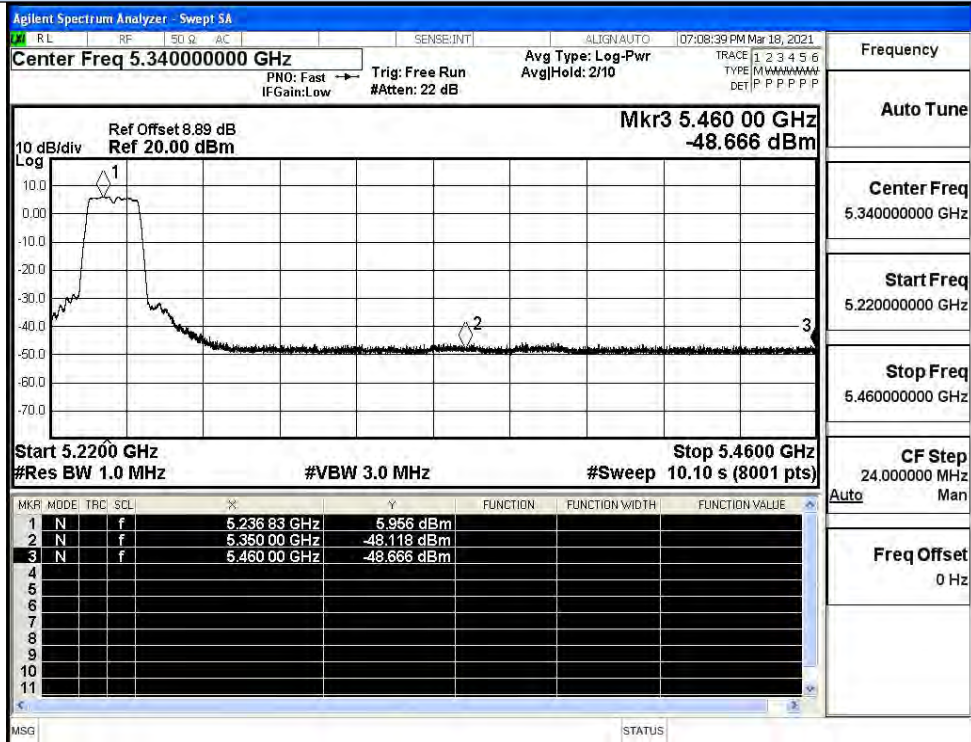


IEEE 802.11a / Channel 36 / 5180MHz / Peak

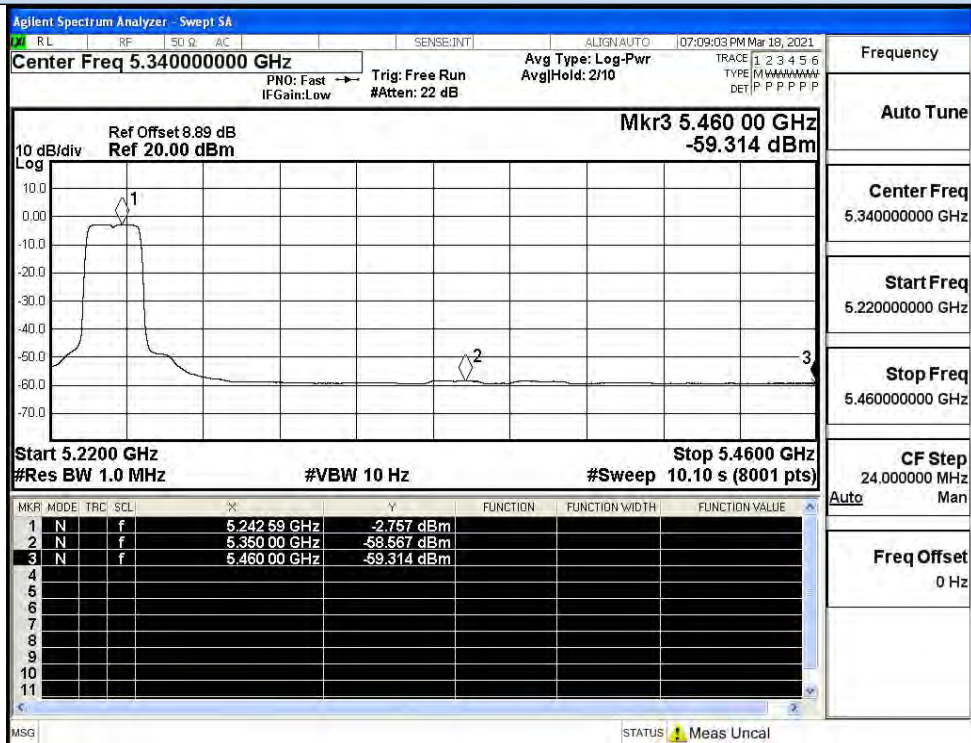


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

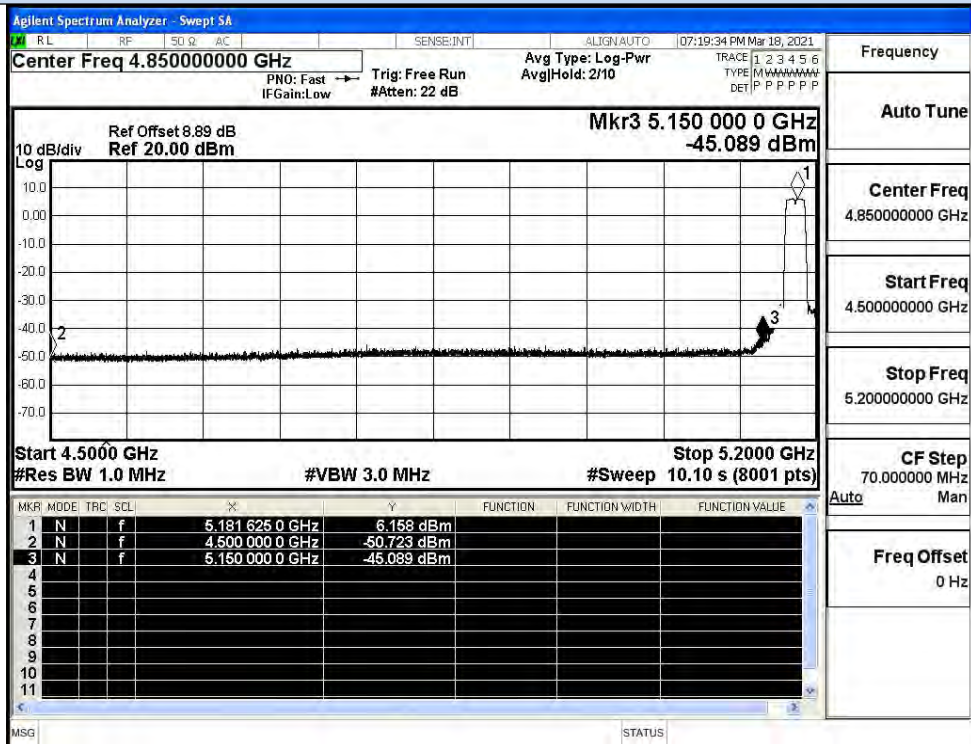


IEEE 802.11a / Channel 48 / 5240MHz / Peak

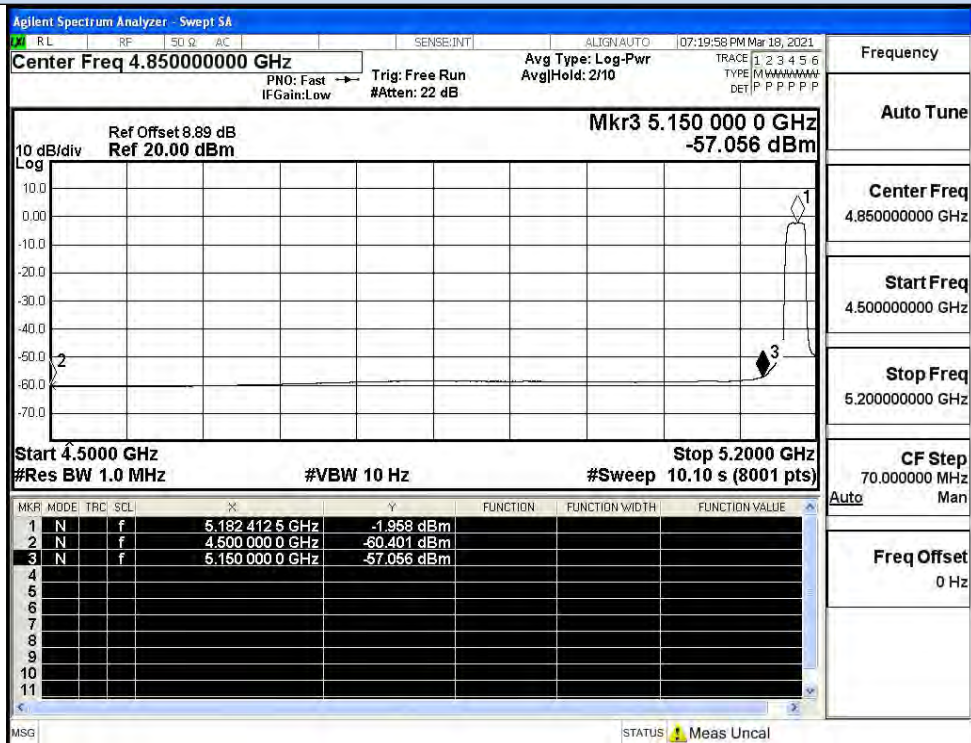


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

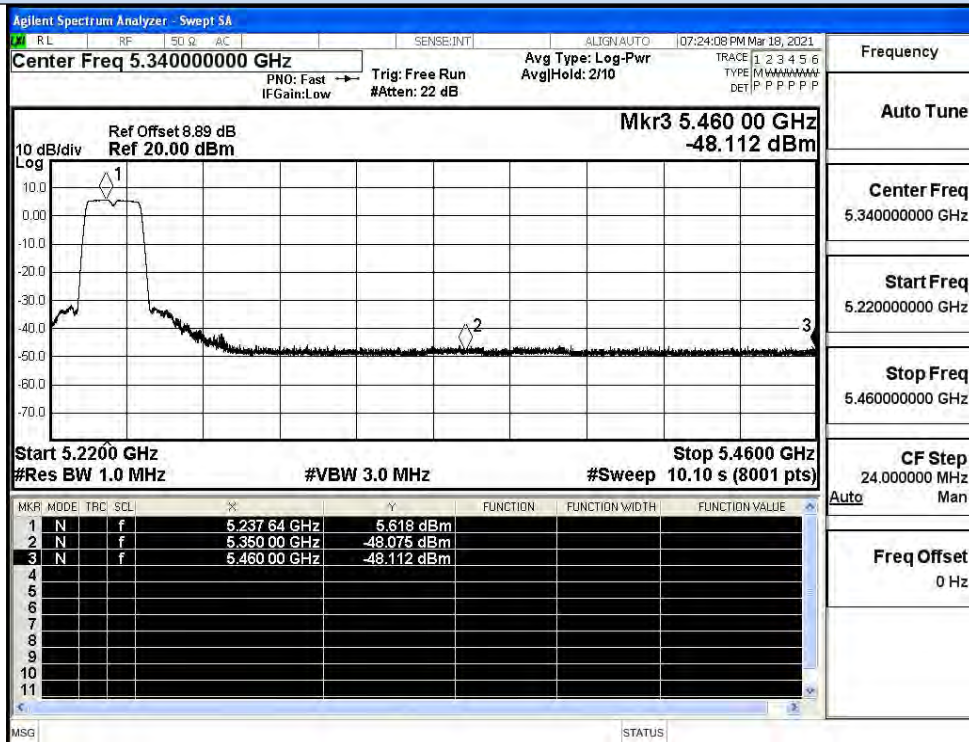


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

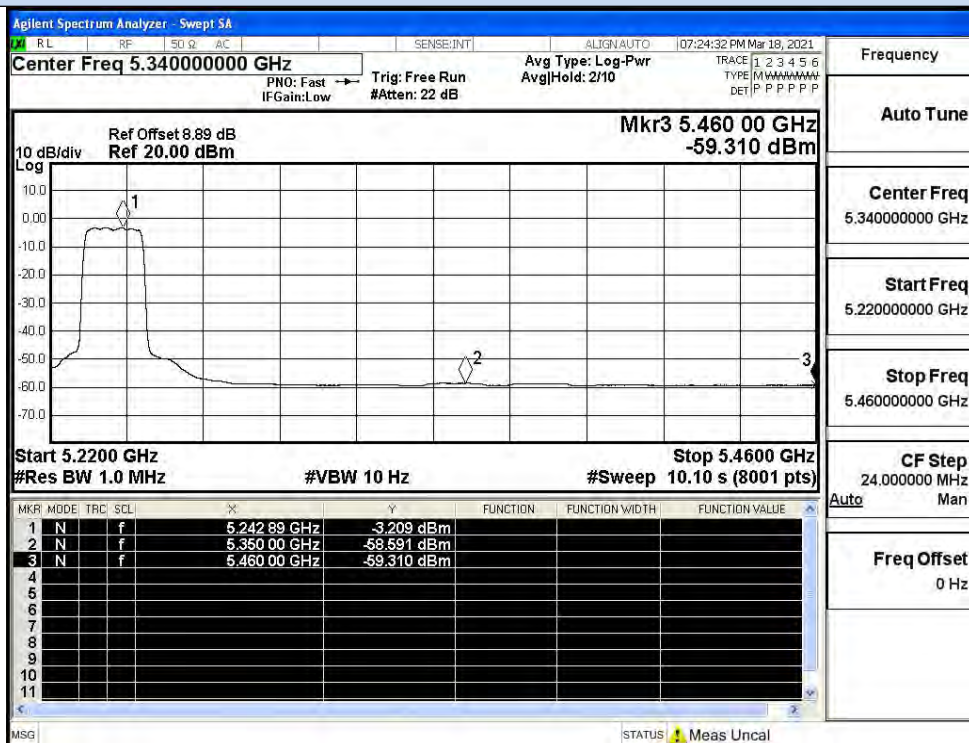


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

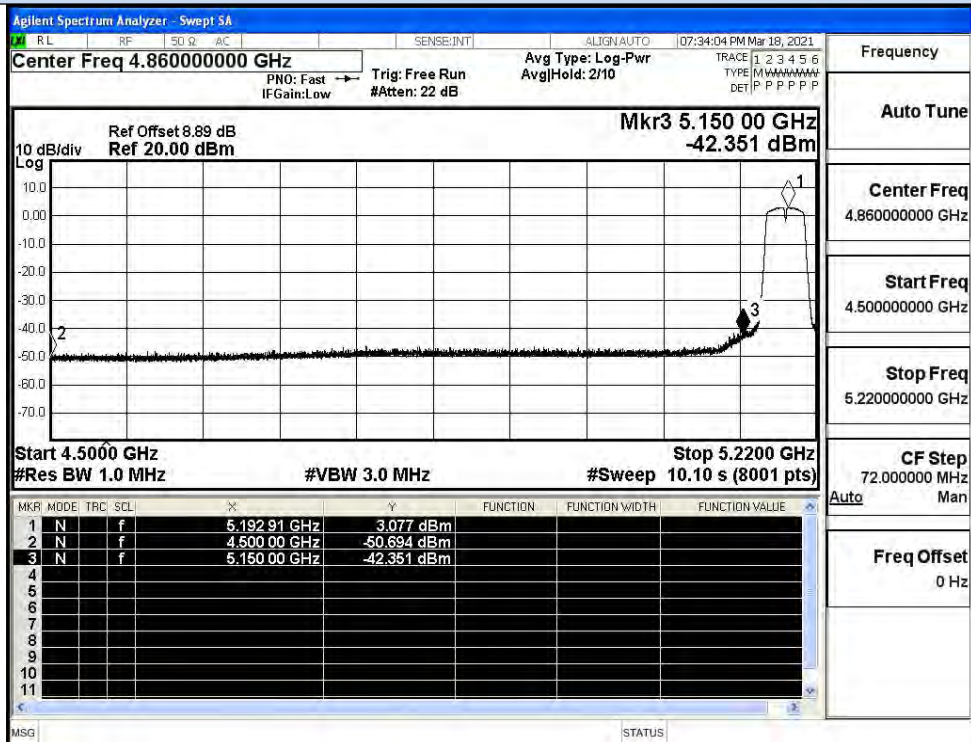


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

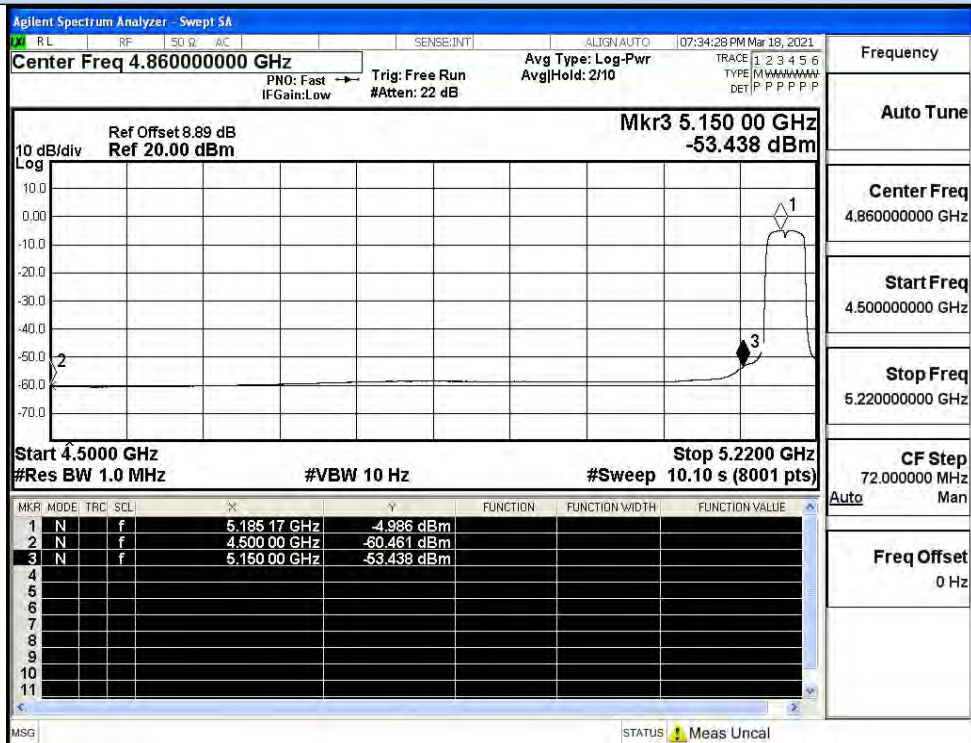


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

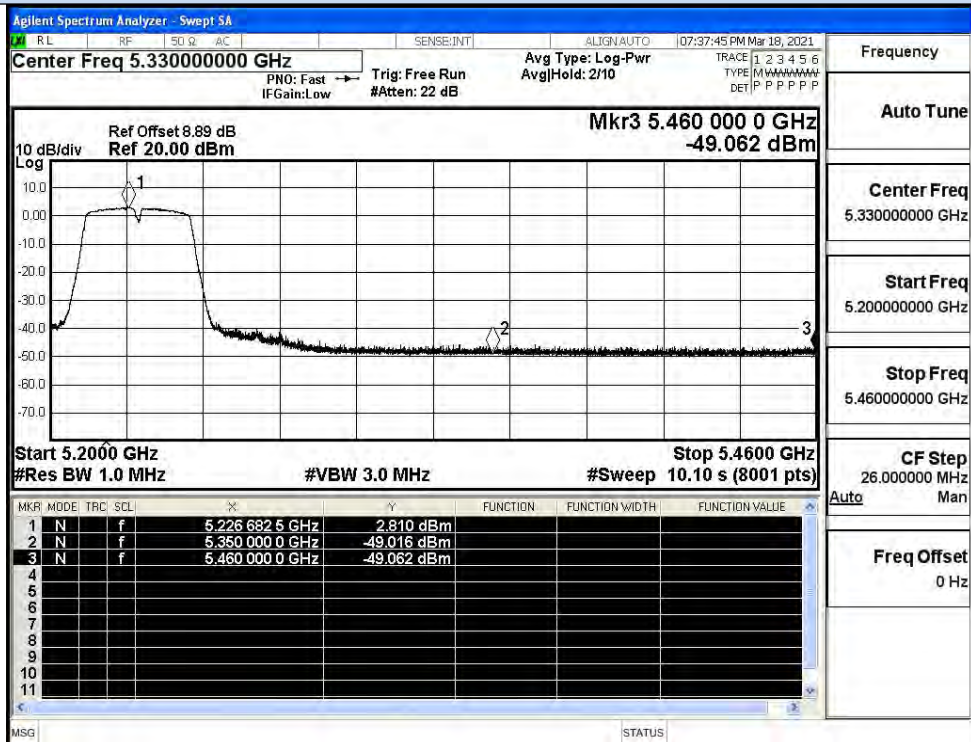


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

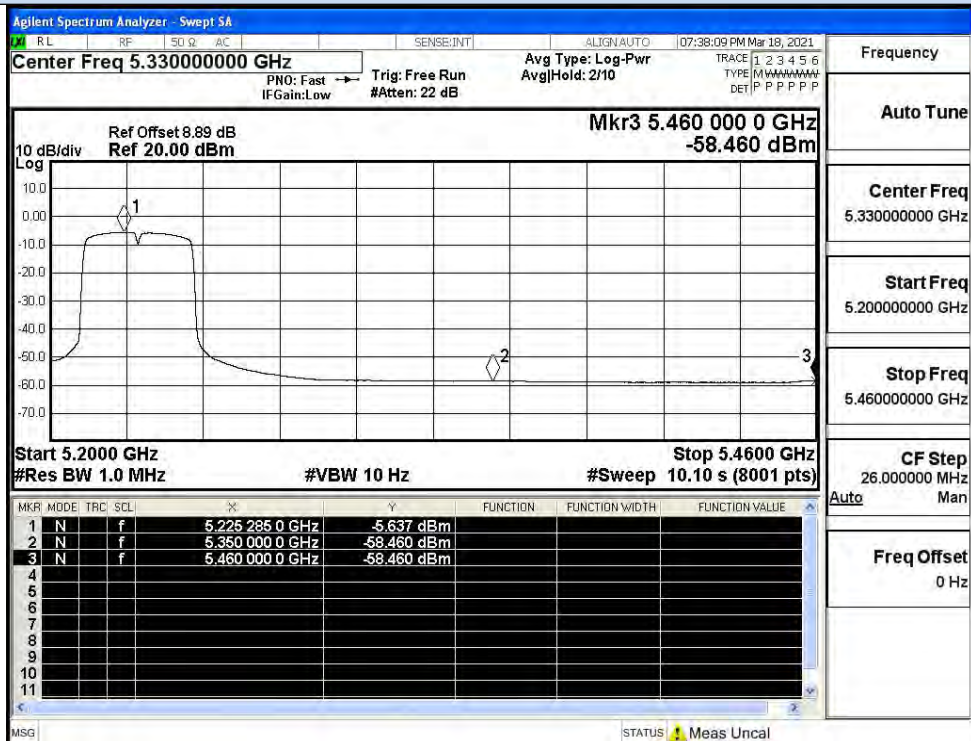


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

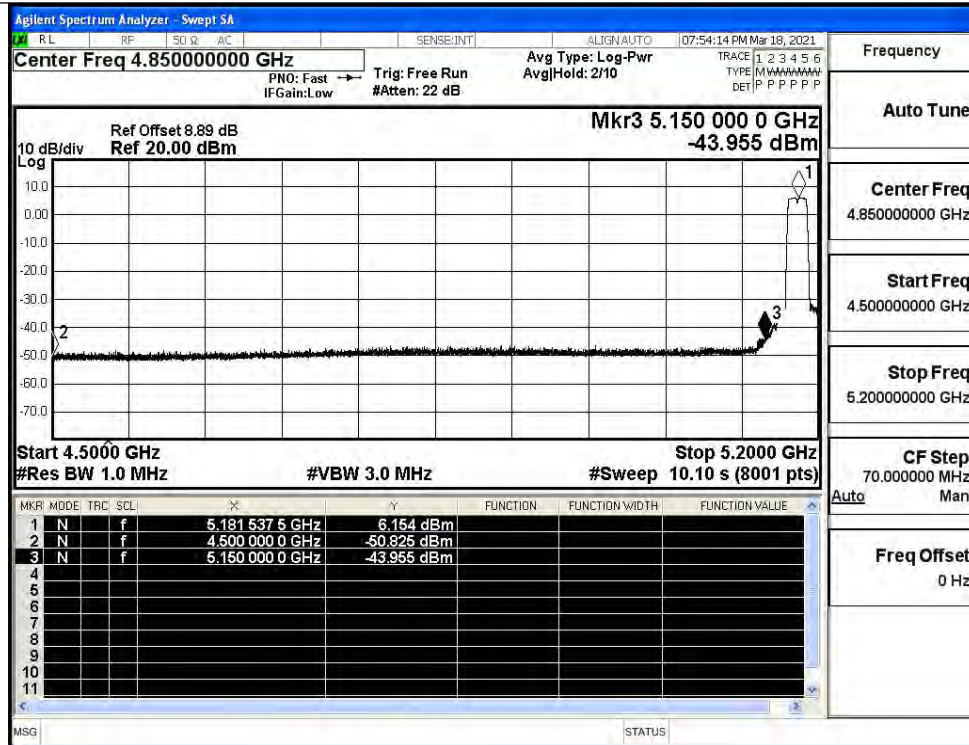
Undesirable Emissions Measurement



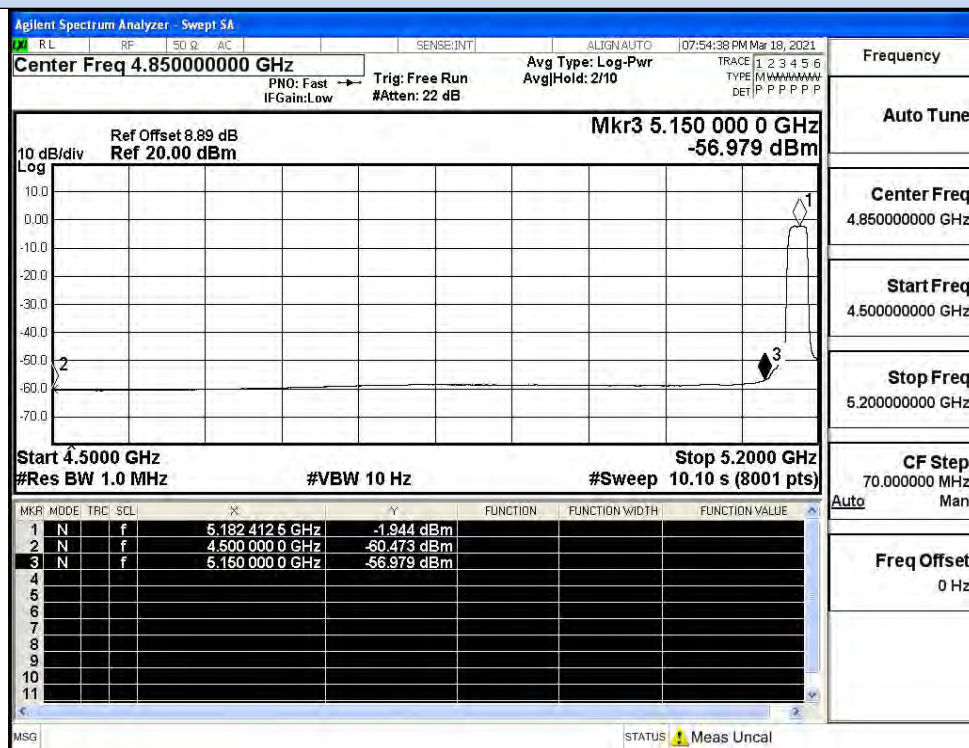
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



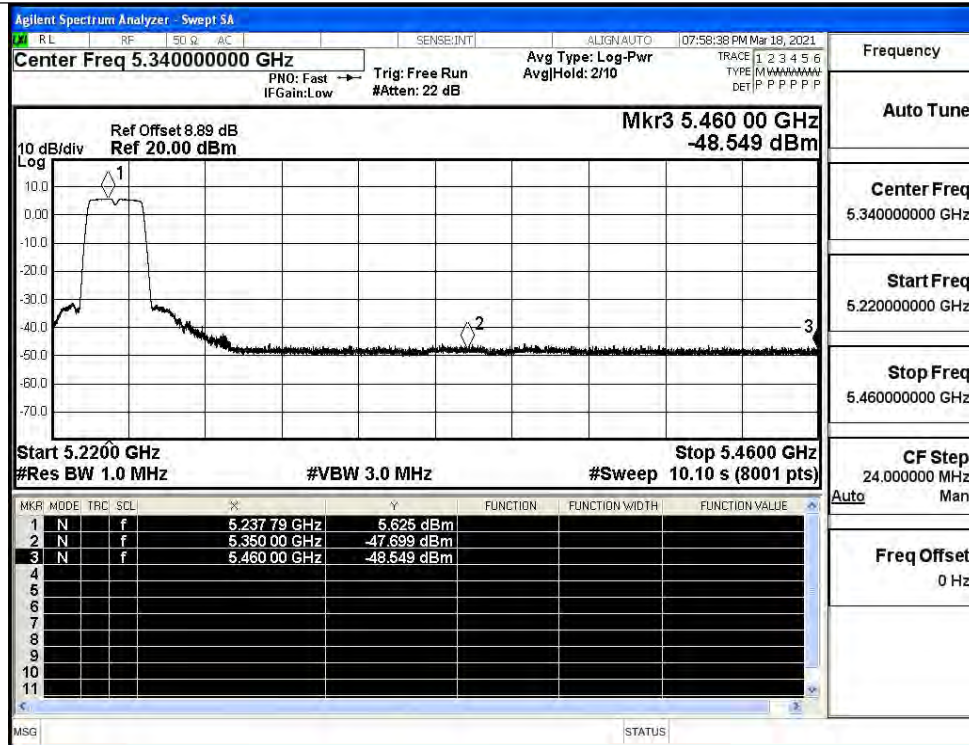
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



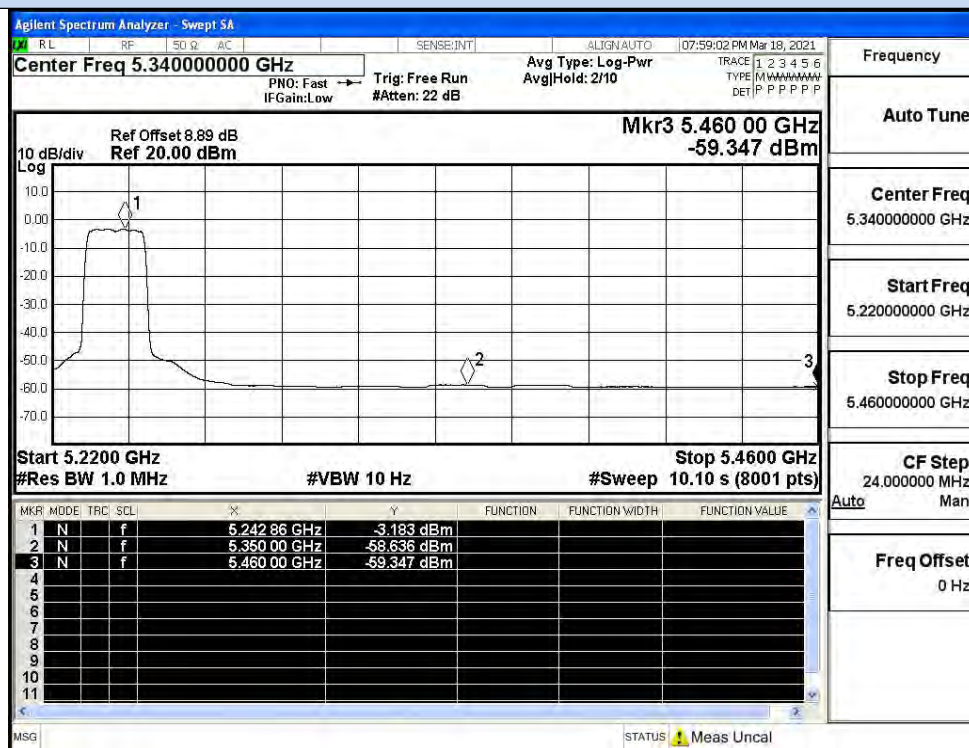
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



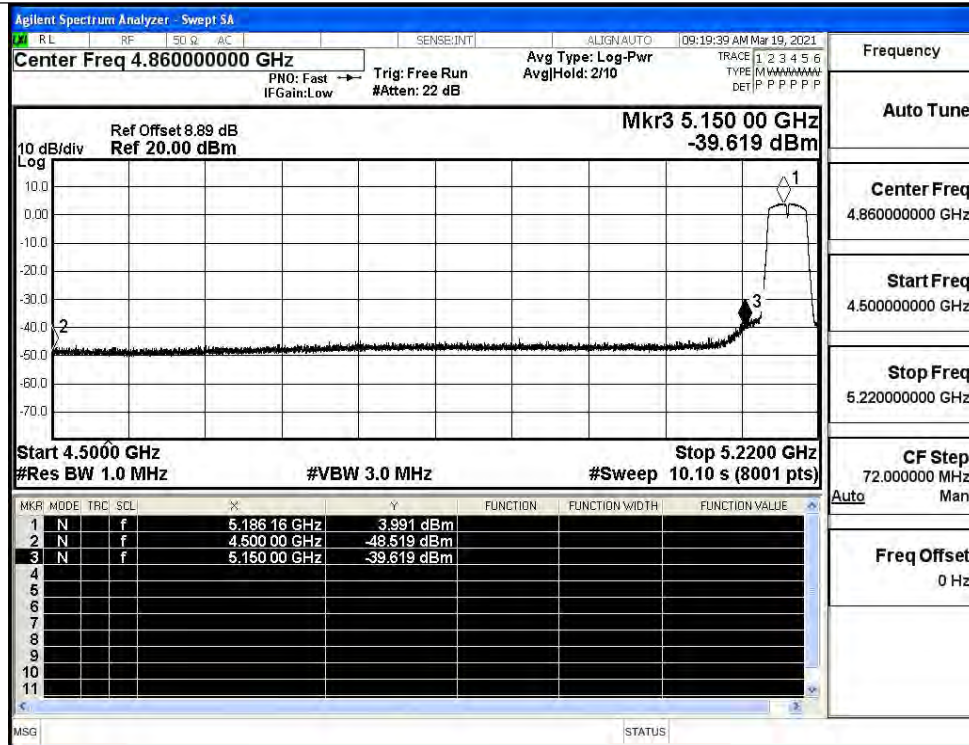
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



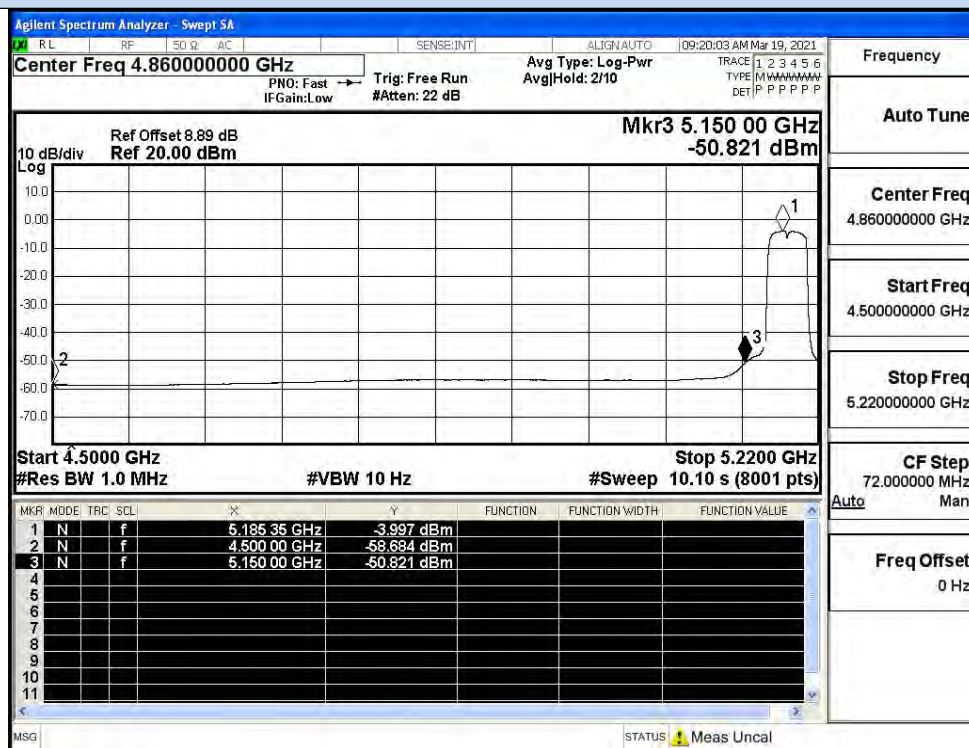
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



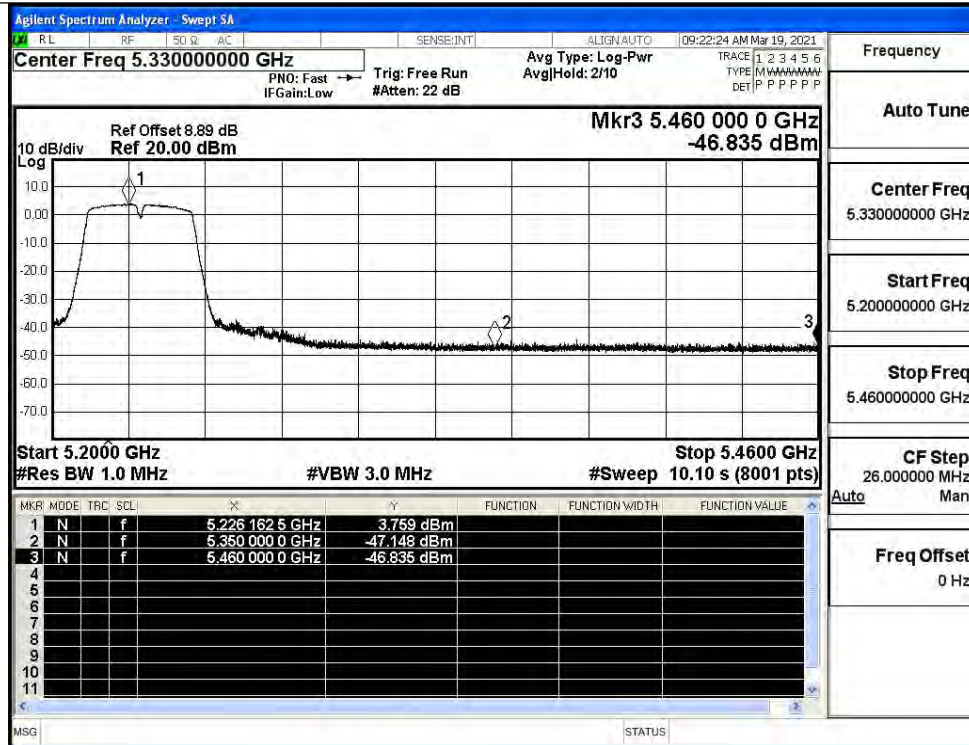
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



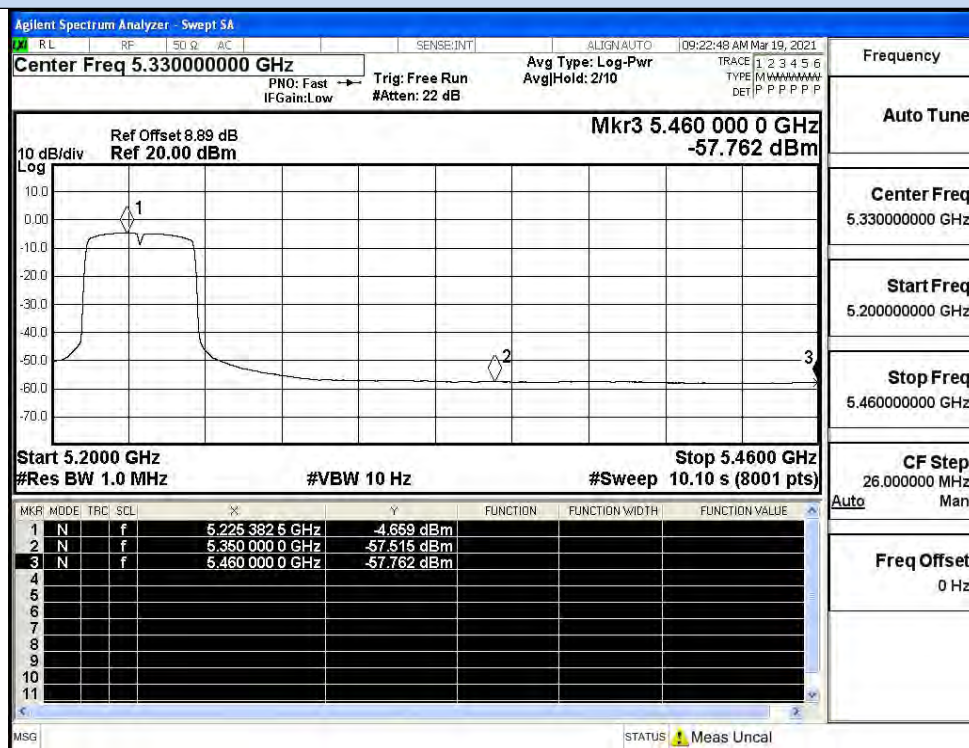
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



IEEE 802.11ac40 / Channel 46 / 5230MHz / Average

Antenna 0+ Antenna 1

Test Mode	Channel	Frequency (MHz)	Covert Radiated E Level At 3m (dBuV/m)			Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
			Ant0	Ant1	Sum					
11N20 MIMO	36	4500.0	-48.87	-50.72	-46.69	8.01	0	56.55	Peak	68.20
		4500.0	-58.67	-60.40	-56.44	8.01	0	46.80	Average	54.00
		5150.0	-43.28	-45.09	-41.08	8.01	0	62.16	Peak	68.20
		5150.0	-55.50	-57.06	-53.20	8.01	0	50.04	Average	54.00
	48	5350.0	-47.53	-48.08	-44.79	8.01	0	58.45	Peak	68.20
		5350.0	-57.22	-58.59	-54.84	8.01	0	48.40	Average	54.00
		5460.0	-47.73	-48.11	-44.91	8.01	0	58.33	Peak	68.20
		5460.0	-58.13	-59.31	-55.67	8.01	0	47.57	Average	54.00
11N40 MIMO	38	4500.0	-49.85	-50.69	-47.24	8.01	0	56.00	Peak	68.20
		4500.0	-59.29	-60.46	-56.83	8.01	0	46.41	Average	54.00
		5150.0	-41.08	-42.35	-38.66	8.01	0	64.58	Peak	68.20
		5150.0	-51.86	-53.44	-49.57	8.01	0	53.67	Average	54.00
	46	5350.0	-46.65	-49.02	-44.66	8.01	0	58.57	Peak	68.20
		5350.0	-57.13	-58.46	-54.73	8.01	0	48.50	Average	54.00
		5460.0	-46.28	-49.06	-44.44	8.01	0	58.80	Peak	68.20
		5460.0	-56.95	-58.46	-54.63	8.01	0	48.61	Average	54.00
11AC20 MIMO	36	4500.0	-48.22	-50.83	-46.32	8.01	0	56.92	Peak	68.20
		4500.0	-58.49	-60.47	-56.36	8.01	0	46.88	Average	54.00
		5150.0	-42.93	-43.96	-40.40	8.01	0	62.83	Peak	68.20
		5150.0	-55.14	-56.98	-52.95	8.01	0	50.28	Average	54.00
	48	5350.0	-48.22	-50.83	-46.32	8.01	0	56.92	Peak	68.20
		5350.0	-58.49	-60.47	-56.36	8.01	0	46.88	Average	54.00
		5460.0	-42.93	-43.96	-40.40	8.01	0	62.83	Peak	68.20
		5460.0	-55.14	-56.98	-52.95	8.01	0	50.28	Average	54.00
11AC40 MIMO	38	4500.0	-47.78	-48.52	-45.12	8.01	0	58.11	Peak	68.20
		4500.0	-58.53	-58.68	-55.59	8.01	0	47.64	Average	54.00
		5150.0	-39.15	-39.62	-36.37	8.01	0	66.87	Peak	68.20
		5150.0	-52.04	-52.82	-47.40	8.01	0	53.84	Average	54.00
	46	5350.0	-46.45	-47.15	-43.78	8.01	0	59.46	Peak	68.20
		5350.0	-57.13	-57.52	-54.31	8.01	0	48.93	Average	54.00
		5460.0	-46.77	-46.84	-43.79	8.01	0	59.44	Peak	68.20
		5460.0	-57.00	-57.76	-54.35	8.01	0	48.88	Average	54.00