

Appendix E

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Tablet pc

Trade Mark: DayMark

Test Model: MATT85

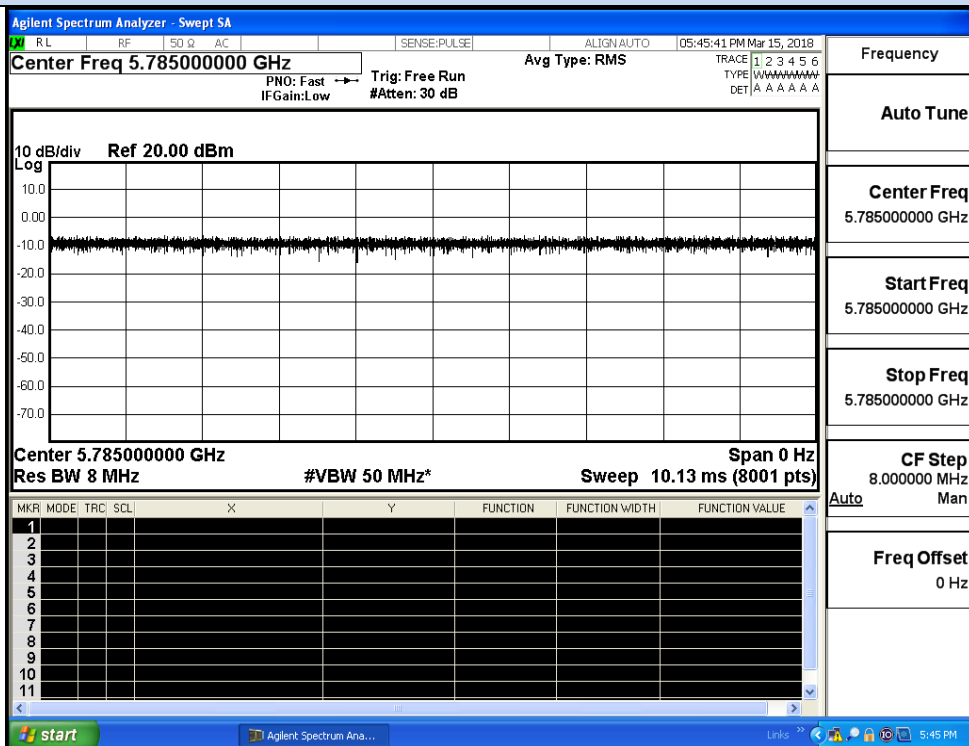
Environmental Conditions

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

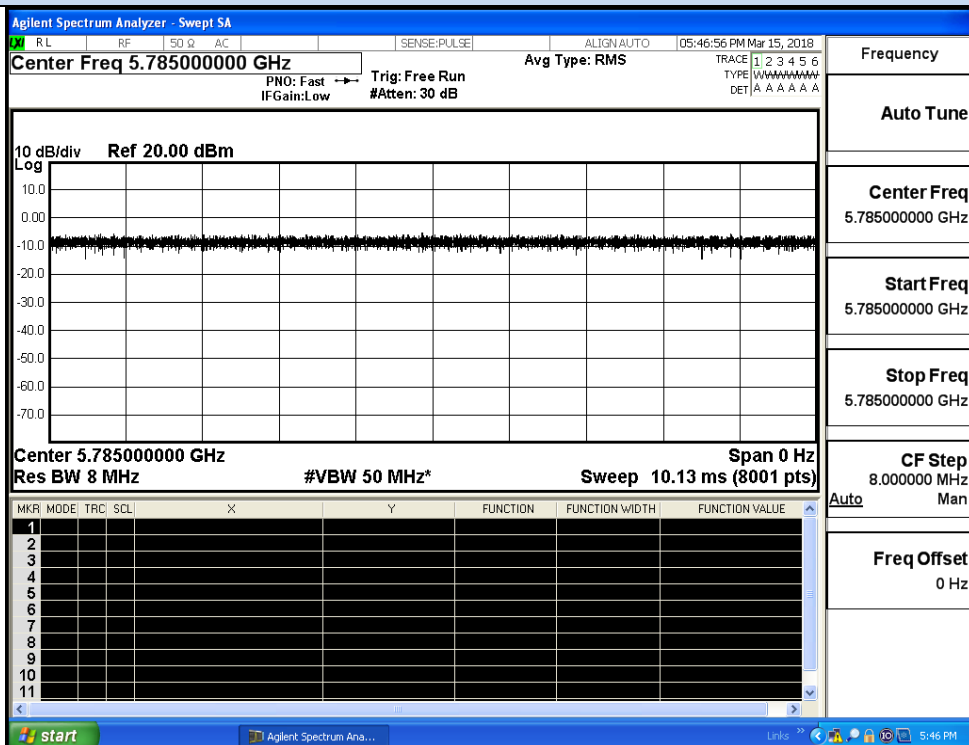
D.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01

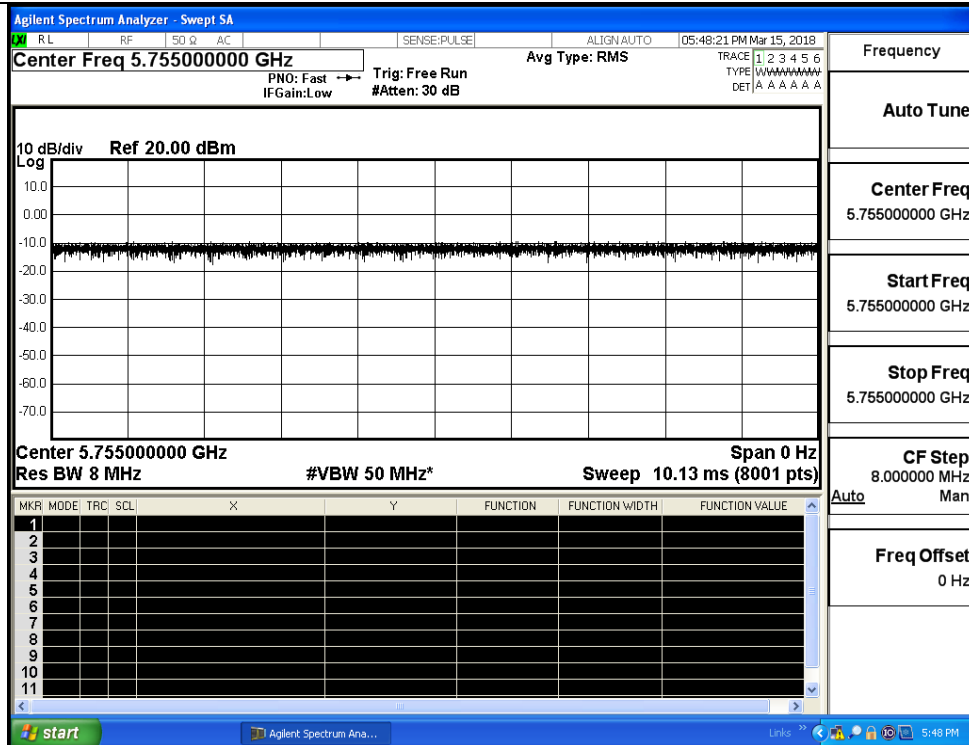
On Time and Duty Cycle



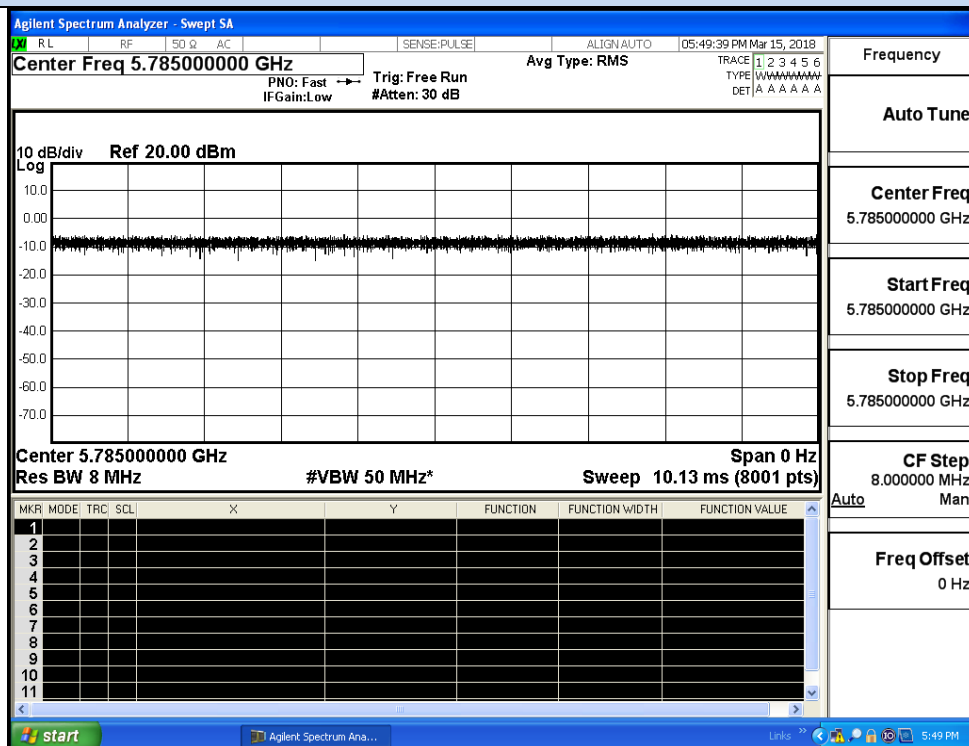
IEEE 802.11a



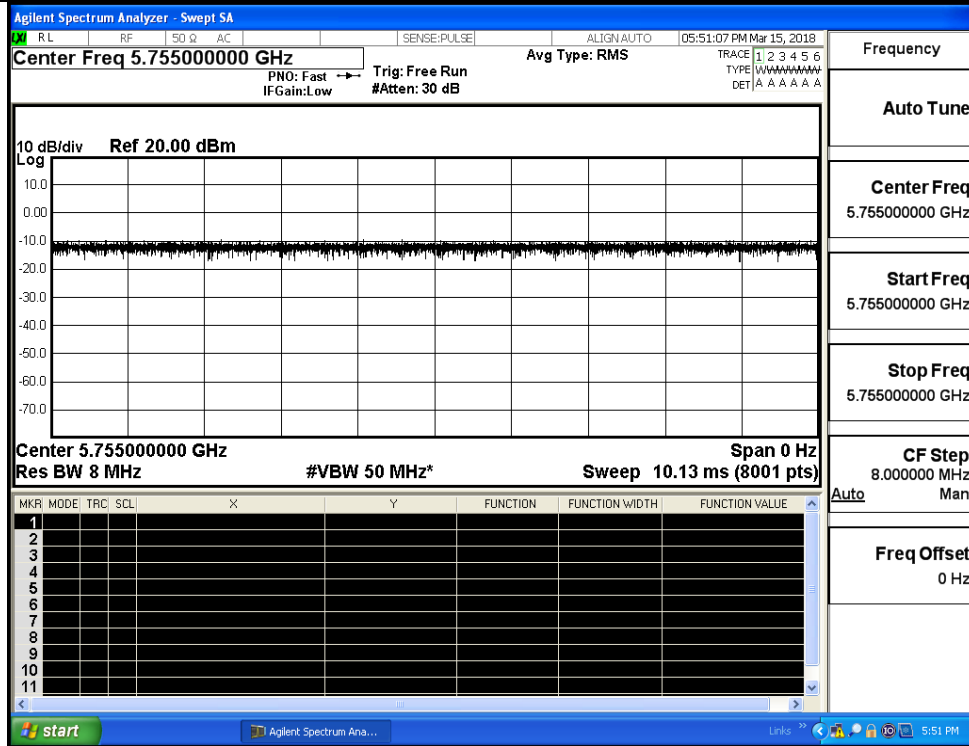
IEEE 802.11n HT20



IEEE 802.11n HT40



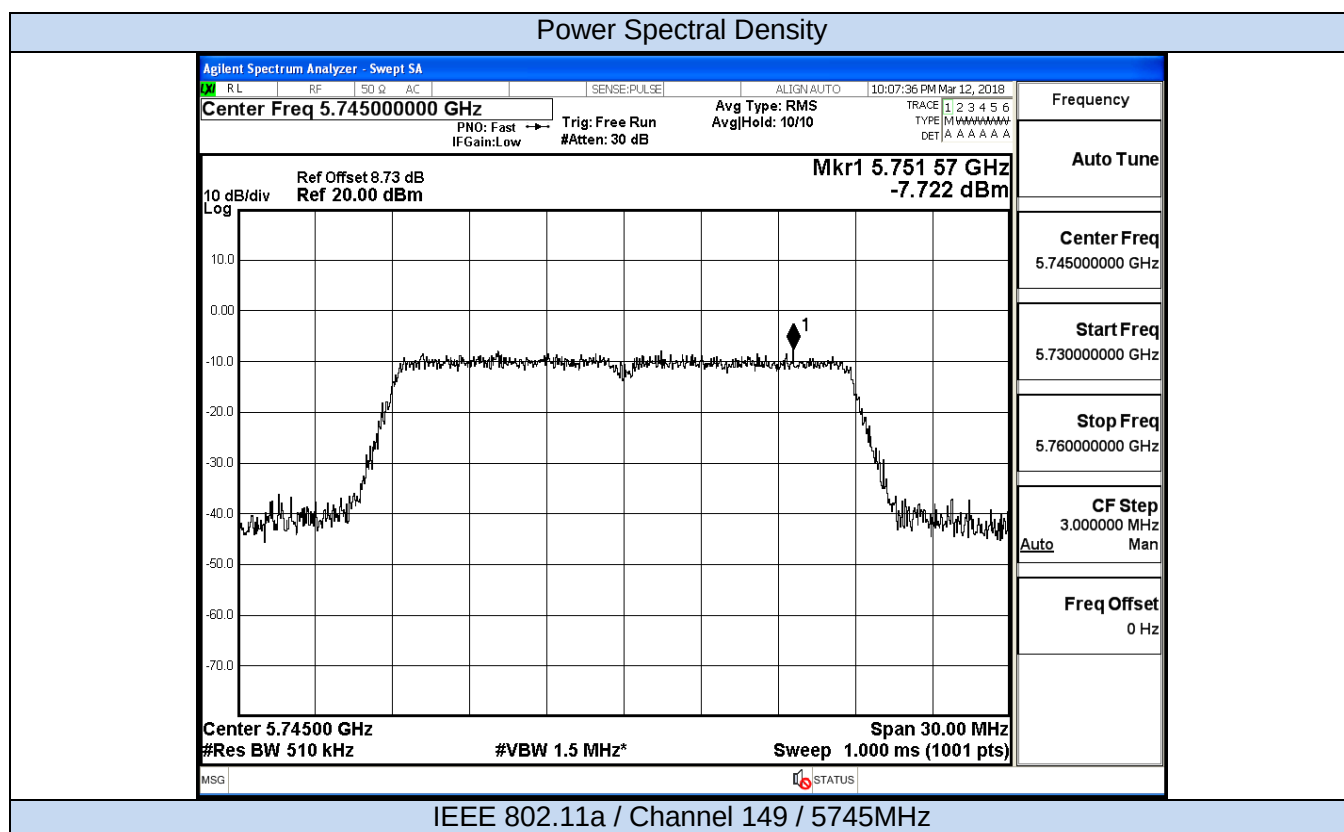
IEEE 802.11AC20

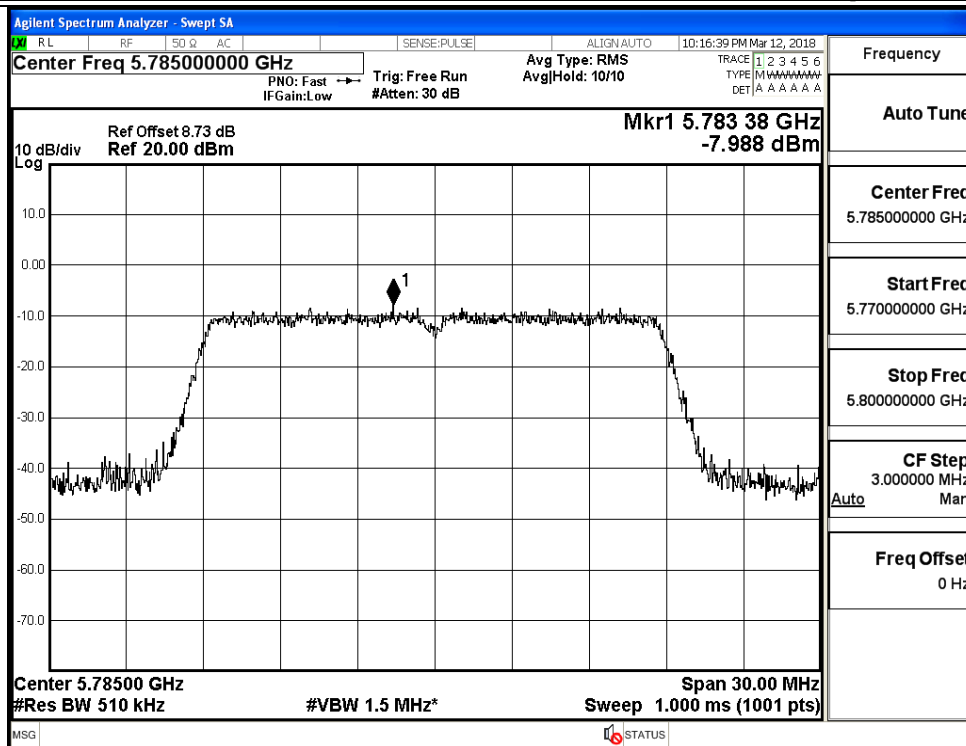


IEEE 802.11AC40

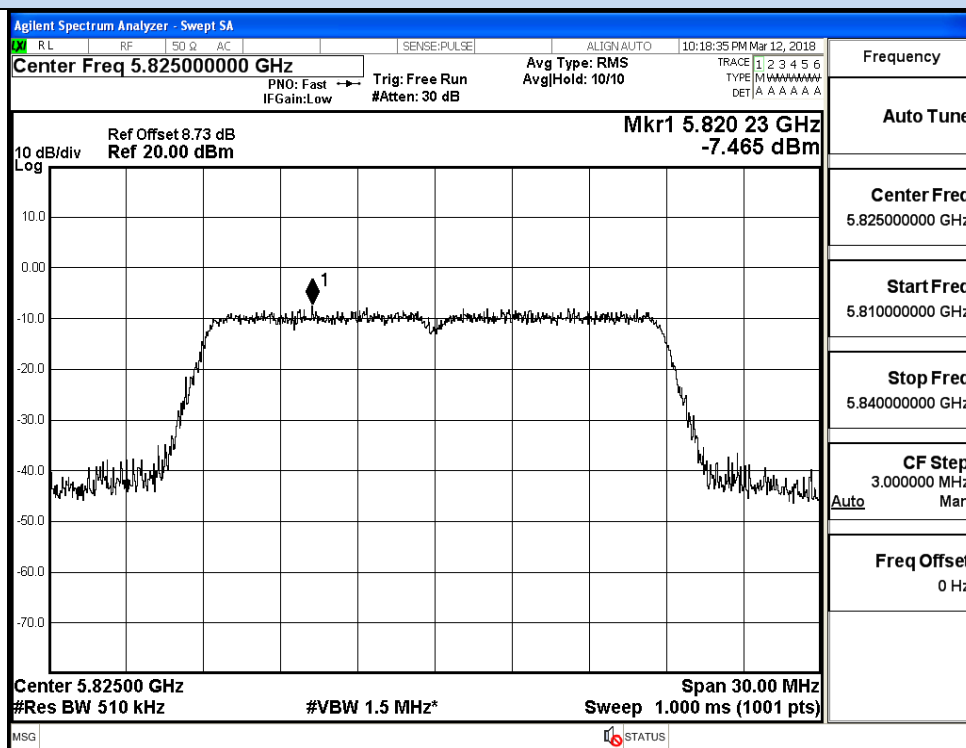
D.2 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/510KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-7.72	0	0.086	-7.806	30	Pass
	157	5785	-7.99	0	0.086	-8.076		Pass
	165	5825	-7.47	0	0.086	-7.556		Pass
11N20 SISO	149	5745	-8.09	0	0.086	-8.176	30	Pass
	157	5785	-7.23	0	0.086	-7.316		Pass
	165	5825	-6.76	0	0.086	-6.846		Pass
11N40 SISO	151	5755	-12.42	0	0.086	-12.506	30	Pass
	159	5795	-13.09	0	0.086	-13.176		Pass
11AC20 SISO	149	5745	-11.20	0	0.086	-11.286	30	Pass
	157	5785	-10.71	0	0.086	-10.796		Pass
	165	5825	-10.35	0	0.086	-10.436		Pass
11AC40 SISO	151	5755	-14.27	0	0.086	-14.356	30	Pass
	159	5795	-13.15	0	0.086	-13.236		Pass

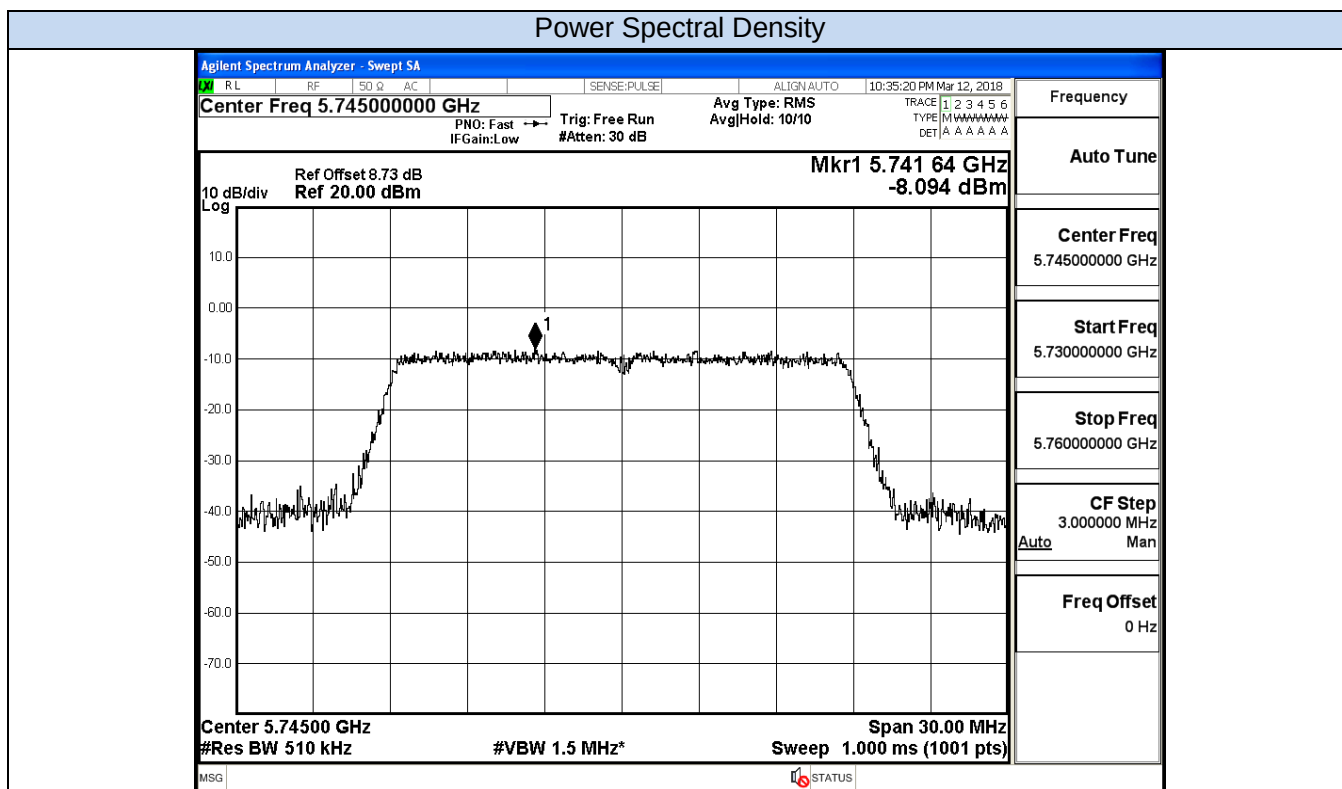




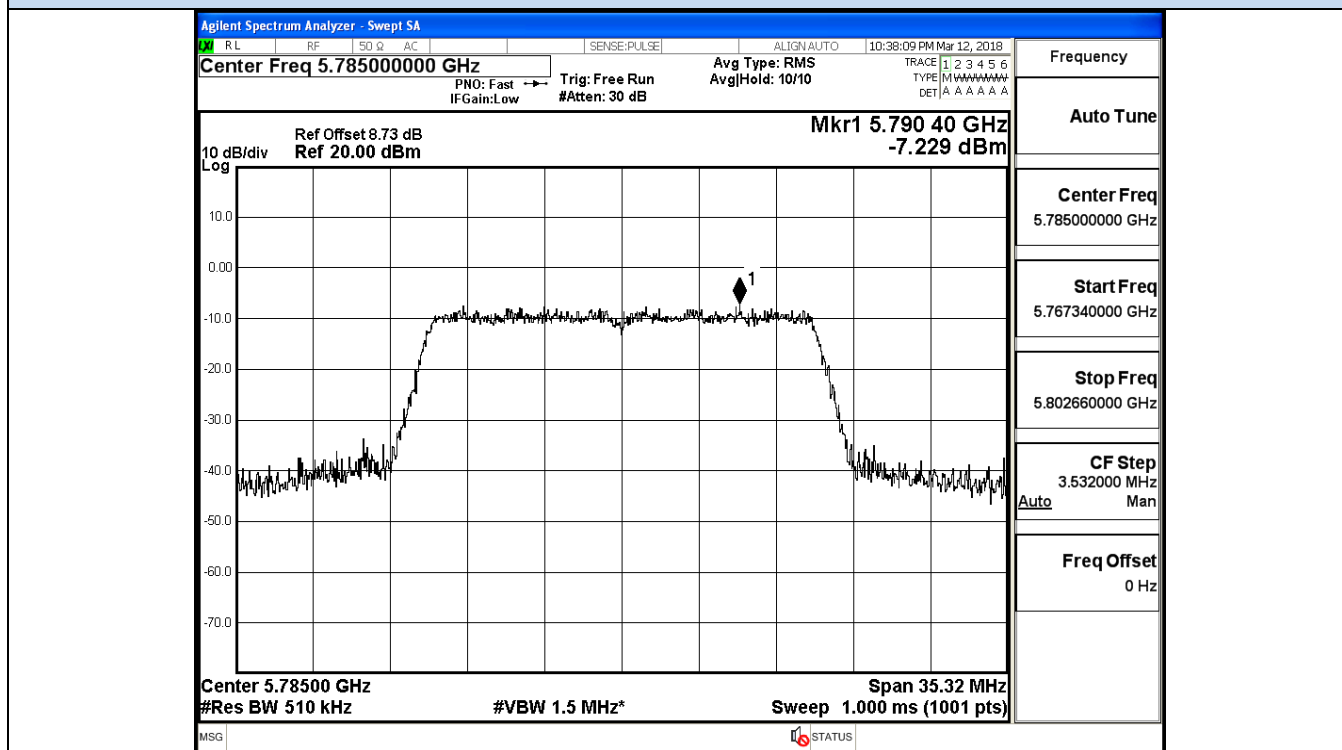
IEEE 802.11na / Channel 157 / 5785MHz



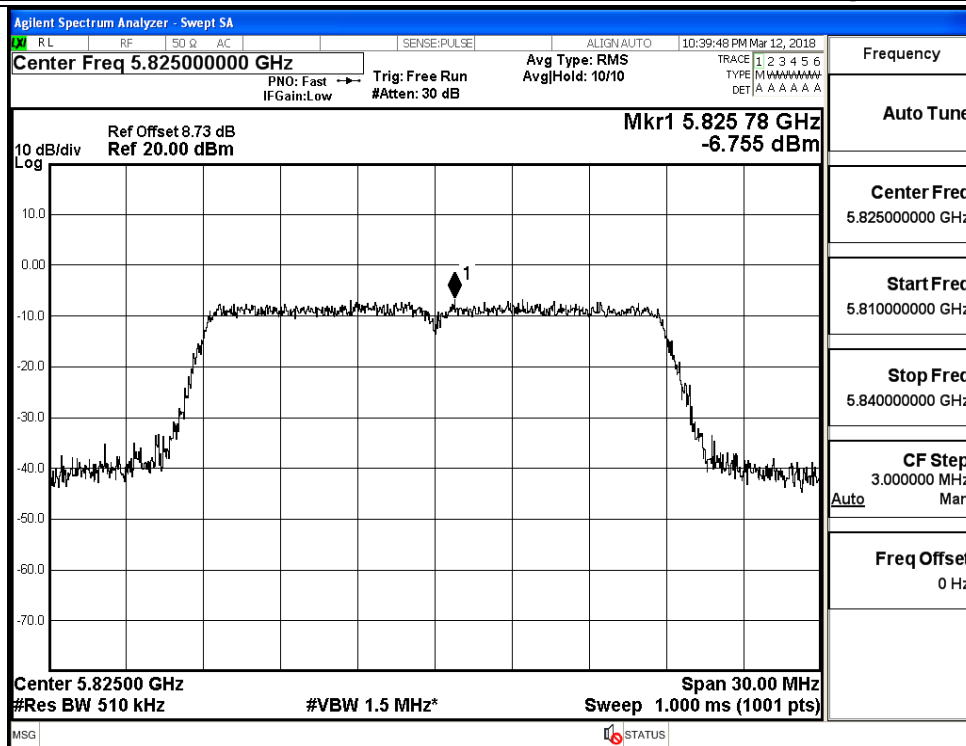
IEEE 802.11na / Channel 165 / 5825MHz



IEEE 802.11n20 / Channel 149 / 5745MHz

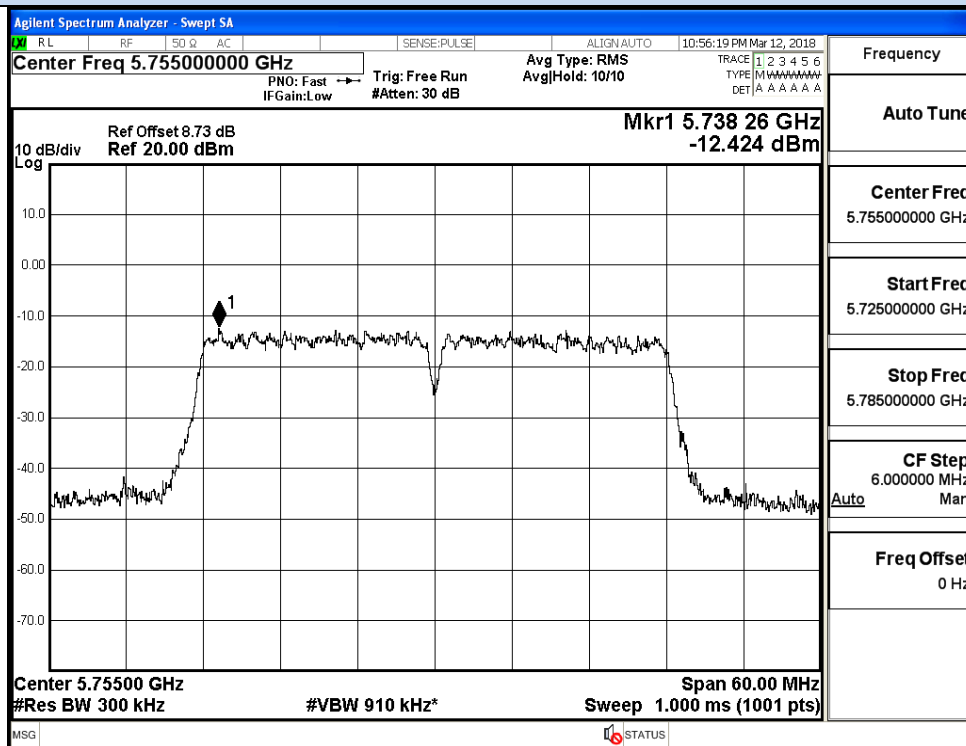


IEEE 802.11n20 / Channel 157 / 5785MHz

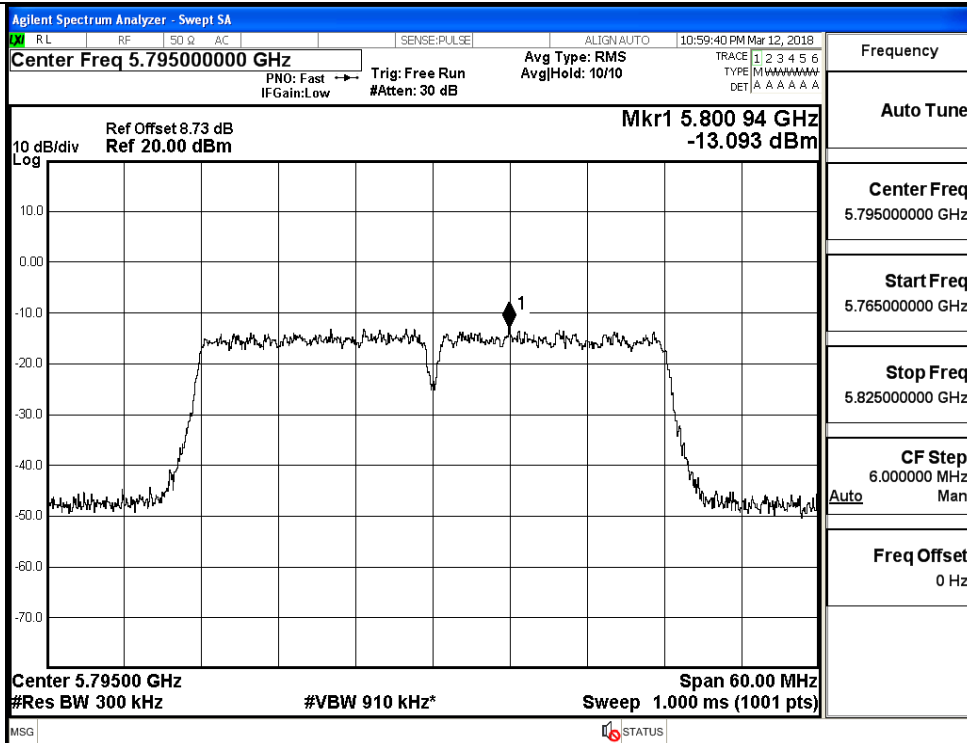


IEEE 802.11n20 / Channel 165 / 5825MHz

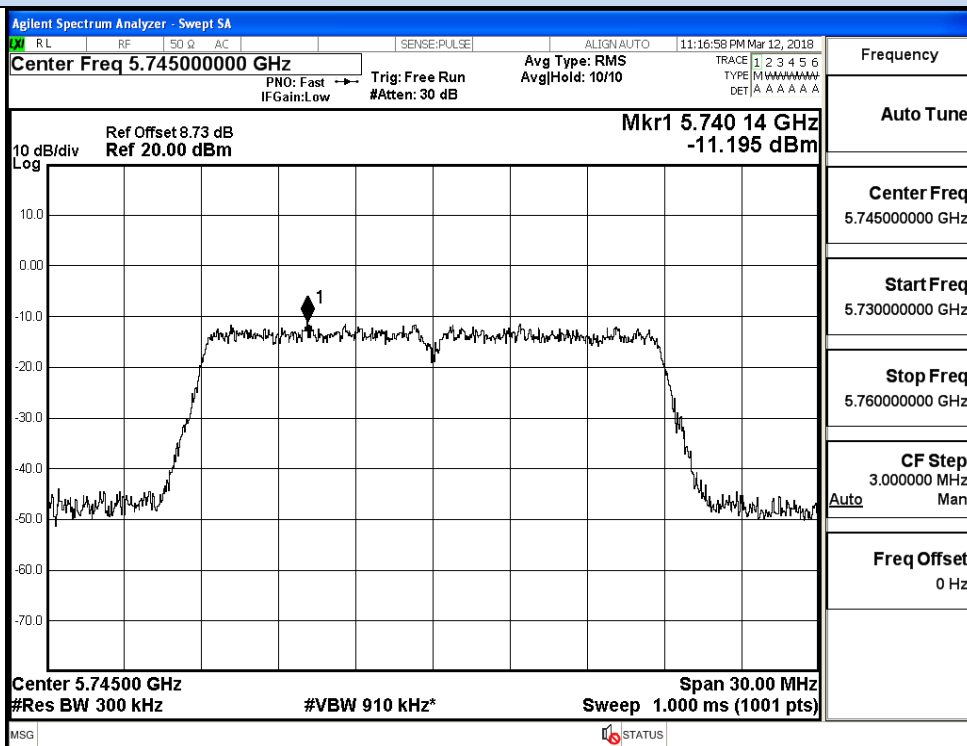
Power Spectral Density



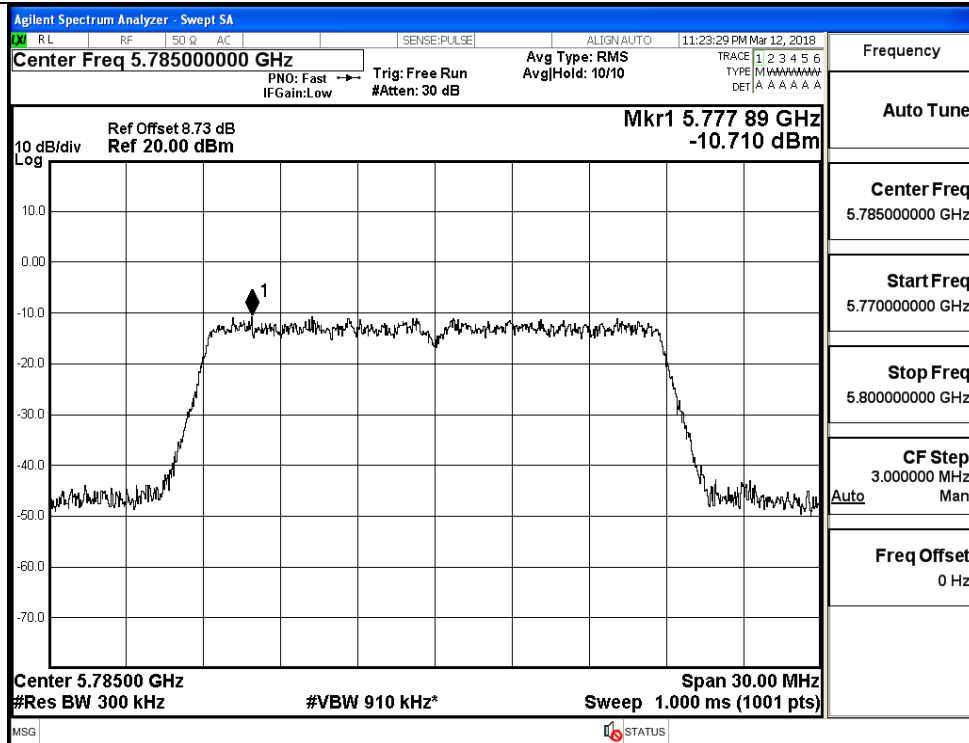
IEEE 802.11n40 / Channel 151 / 5755MHz



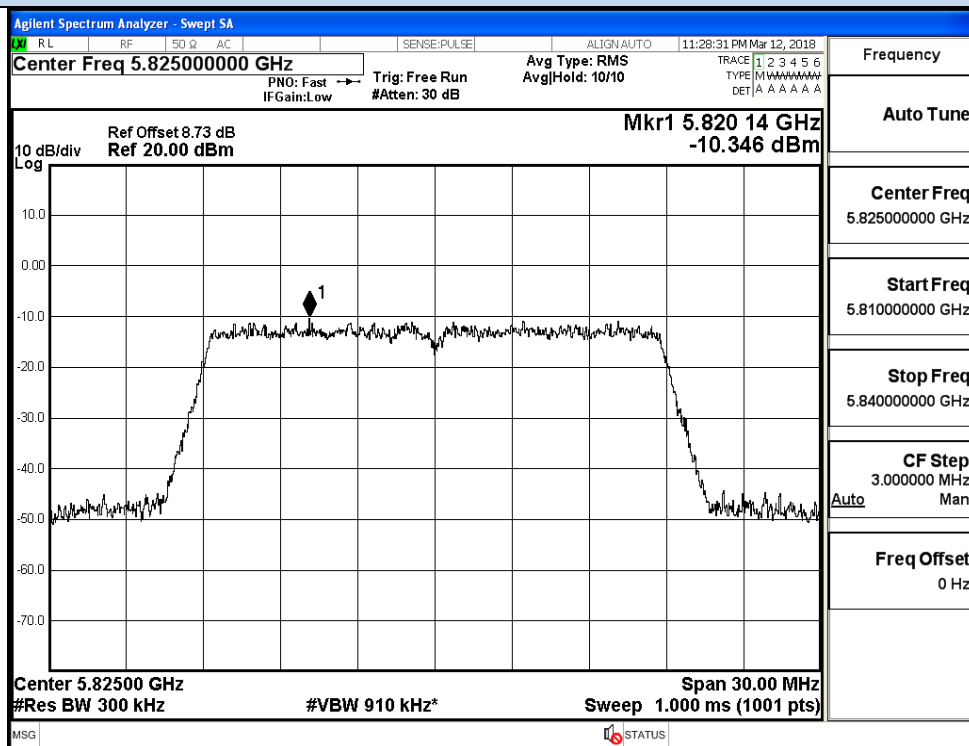
IEEE 802.11n40 / Channel 159 / 5795MHz



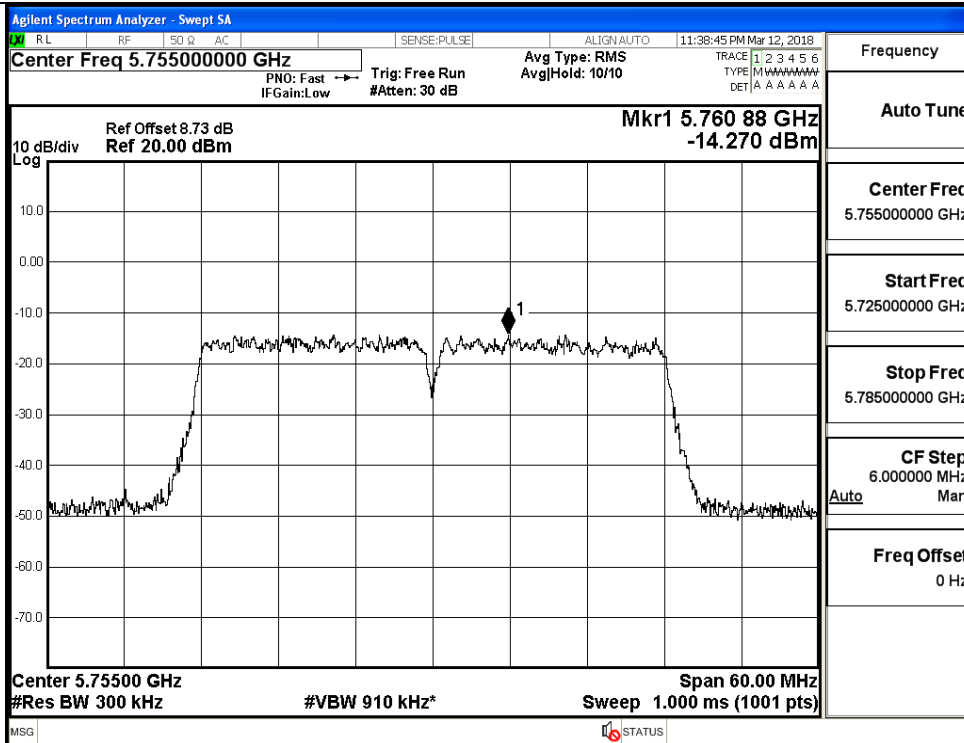
IEEE 802.11ac20 / Channel 149 / 5745MHz



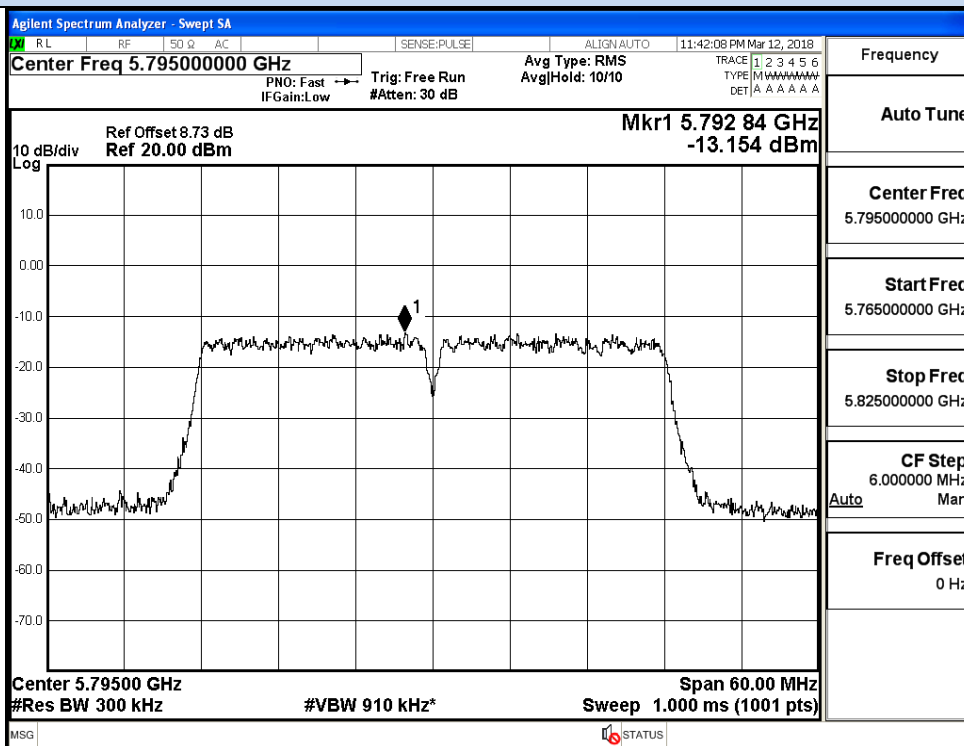
IEEE 802.11ac20 / Channel 157 / 5785MHz



IEEE 802.11ac20 / Channel 165 / 5825MHz



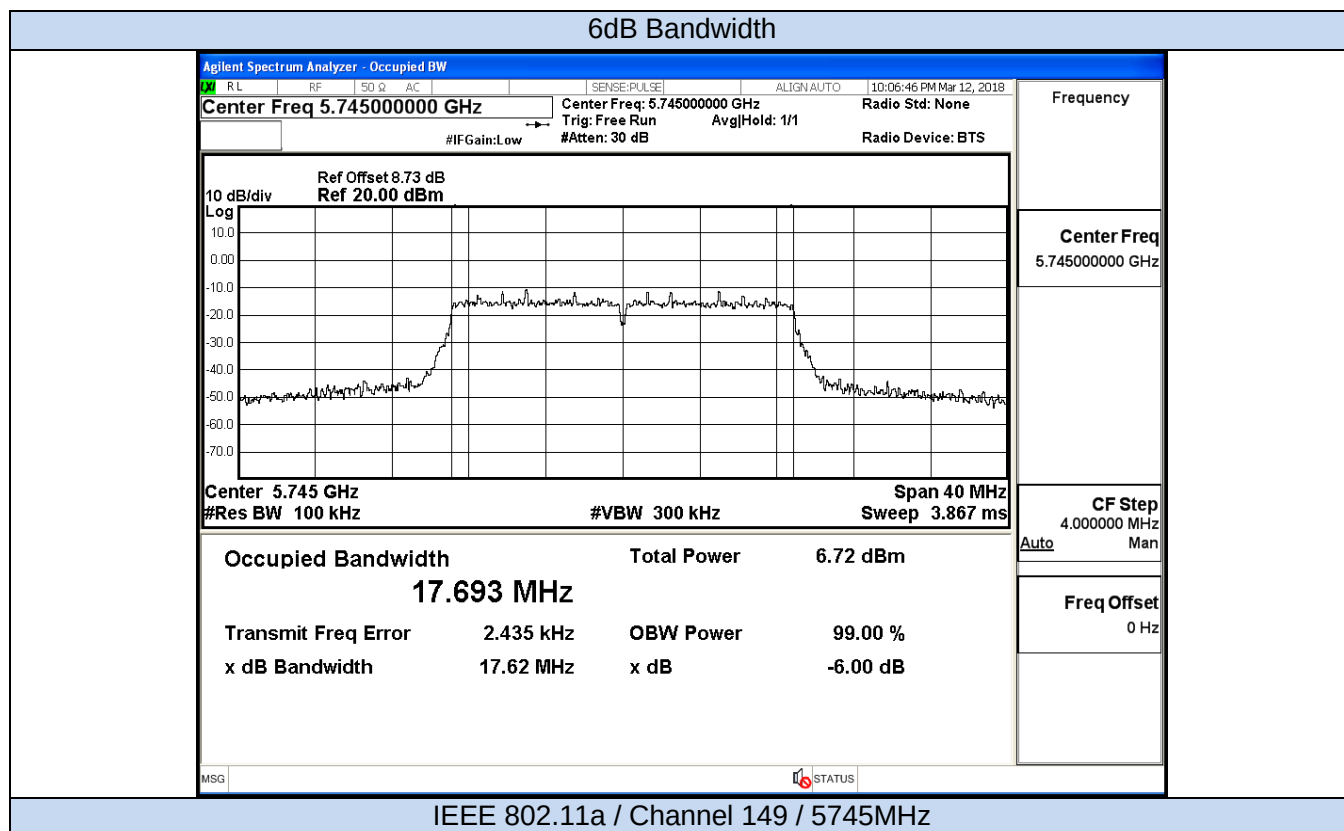
IEEE 802.11ac40 / Channel 151 / 5755MHz

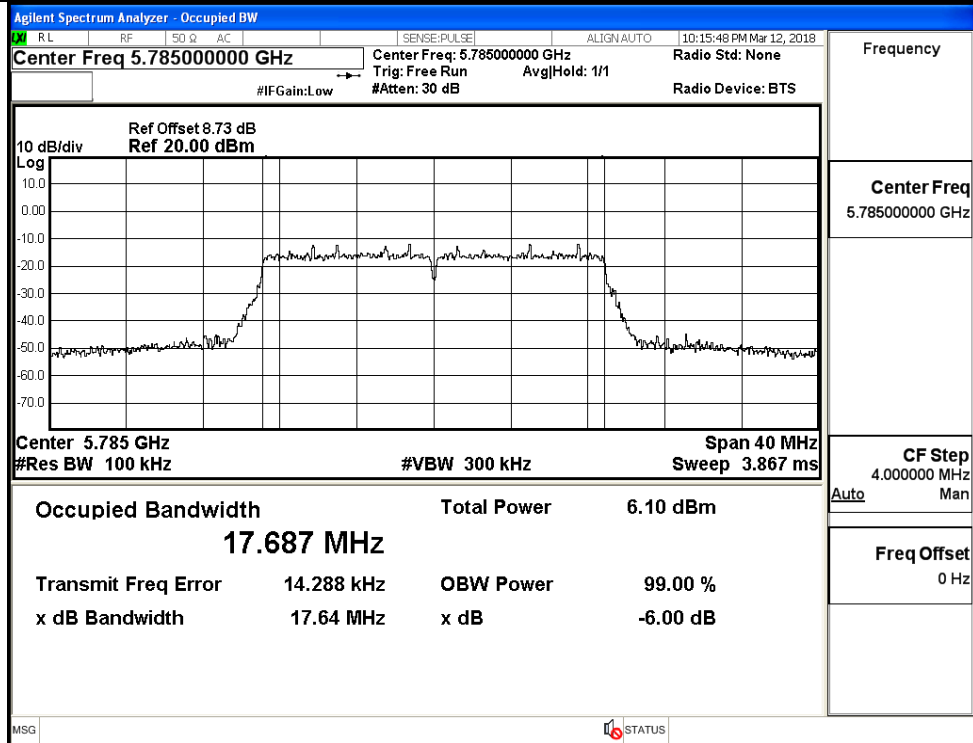


IEEE 802.11ac40 / Channel 159 / 5795MHz

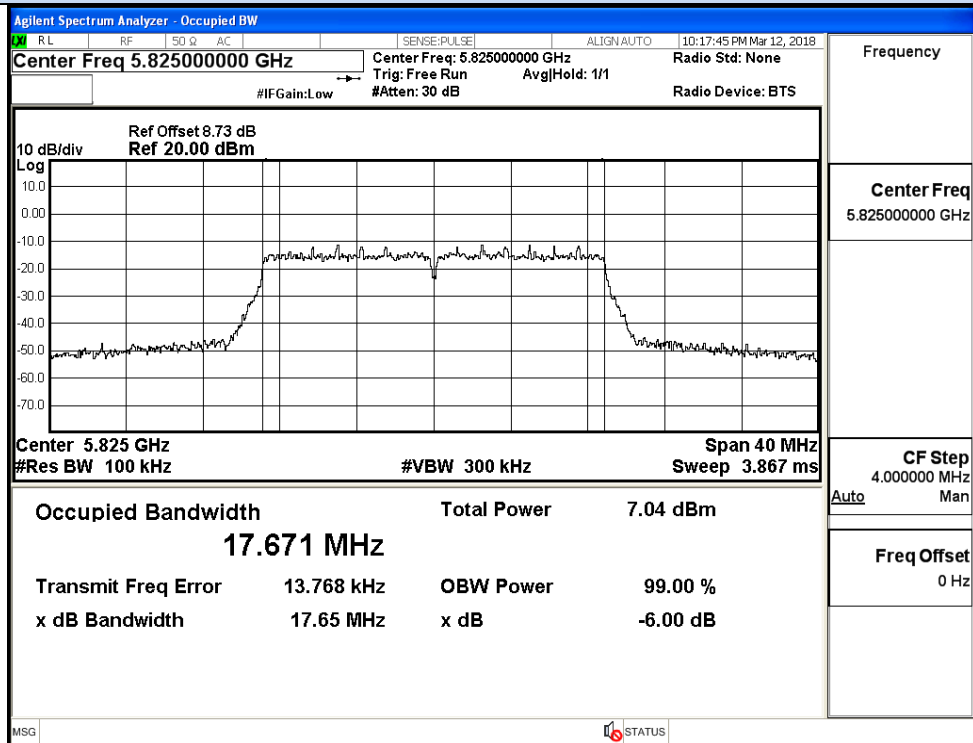
D.3 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
11A	149	5745	17.62	17.693	>=0.5	Pass
	157	5785	17.64	17.687		Pass
	165	5825	17.65	17.671		Pass
11N20 SISO	149	5745	17.65	17.695	>=0.5	Pass
	157	5785	17.66	17.707		Pass
	165	5825	17.64	17.672		Pass
11N40 SISO	151	5755	36.53	36.164	>=0.5	Pass
	159	5795	36.53	36.167		Pass
11AC20S ISO	149	5745	17.86	17.700	>=0.5	Pass
	157	5785	17.84	17.701		Pass
	165	5825	17.82	17.687		Pass
11AC40S ISO	151	5755	36.51	36.153	>=0.5	Pass
	159	5795	36.54	36.171		Pass



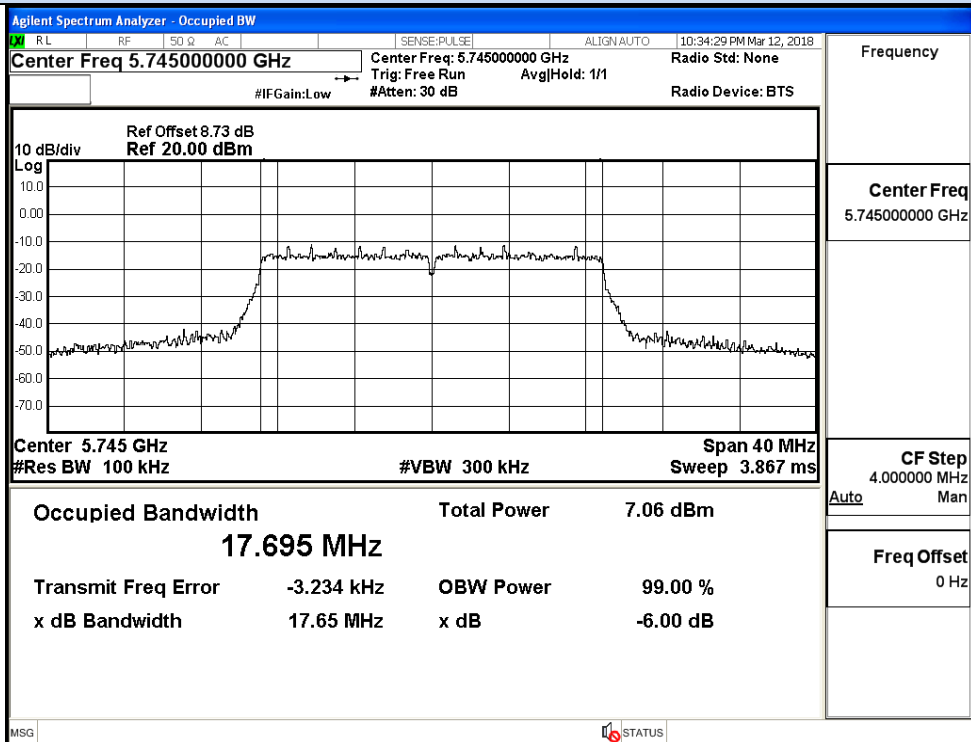


IEEE 802.11a / Channel 157 / 5785MHz

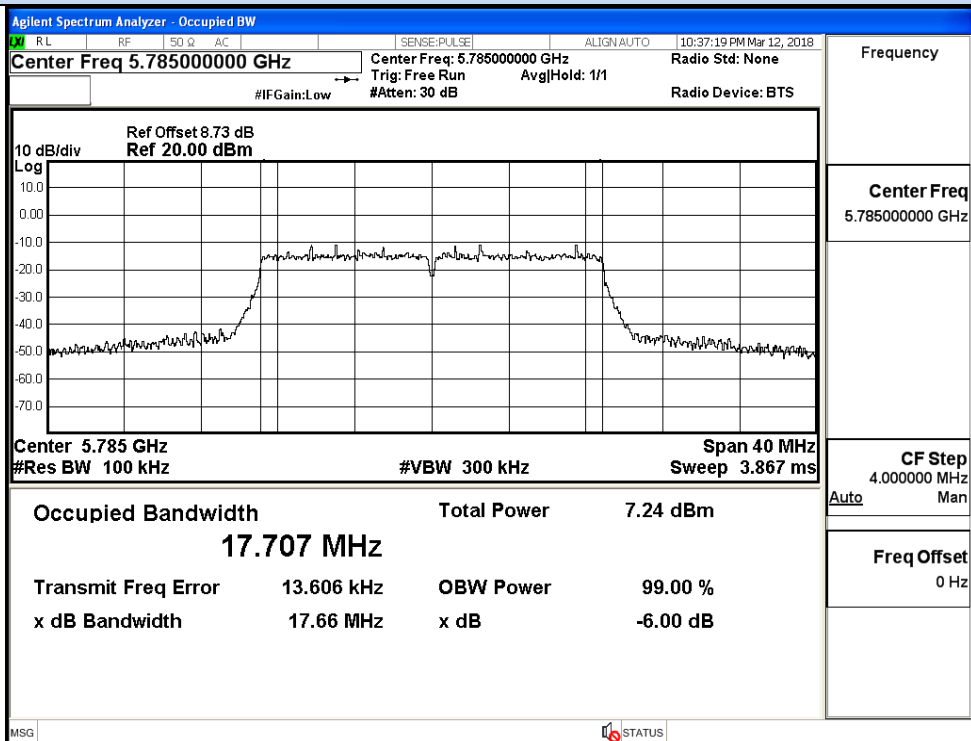


IEEE 802.11a / Channel 165 / 5825MHz

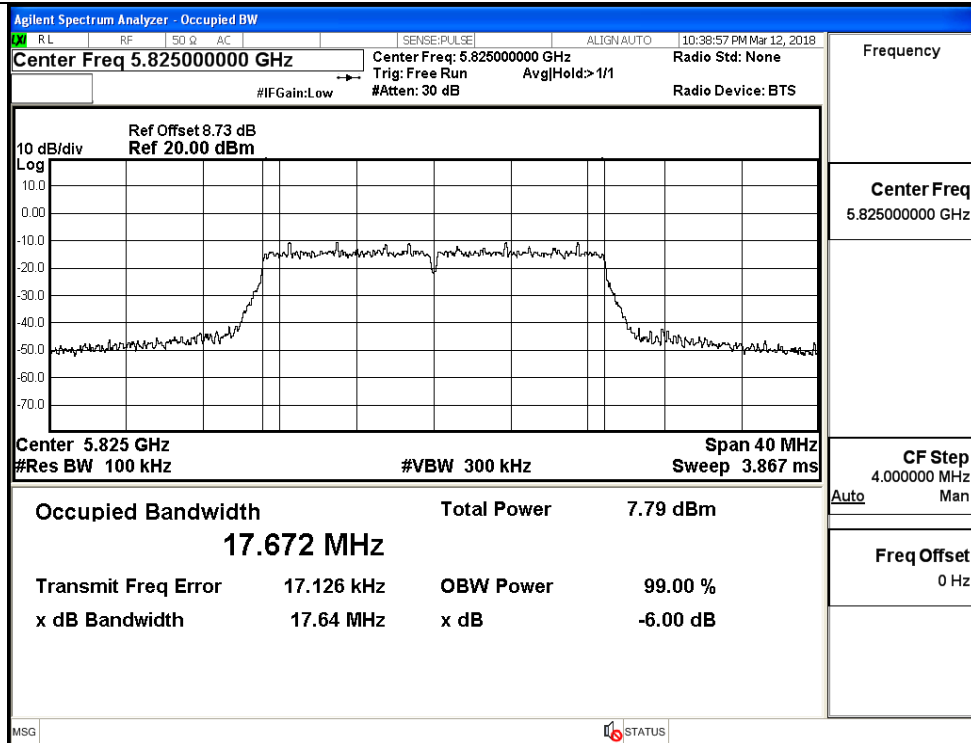
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

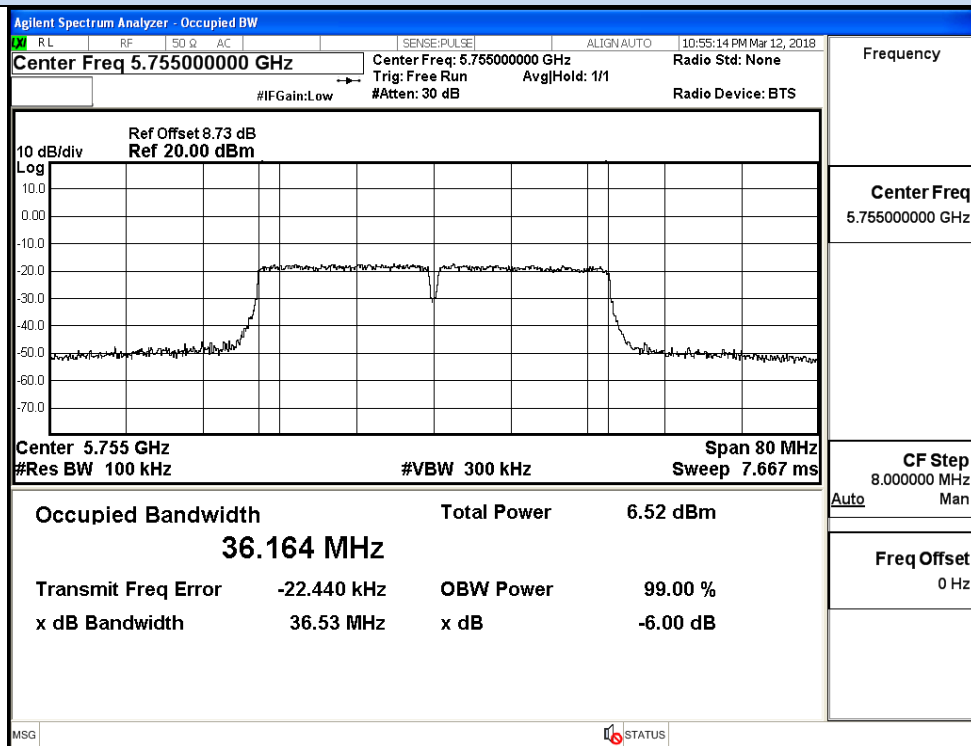


IEEE 802.11n20 / Channel 157 / 5785MHz

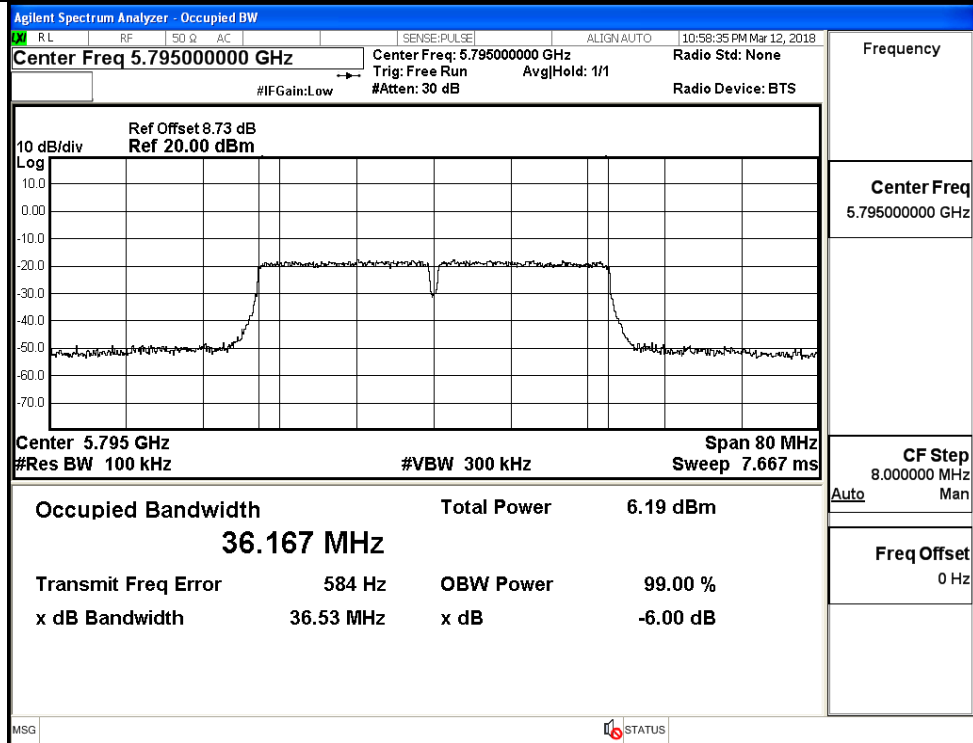


IEEE 802.11n20 / Channel 165 / 5825MHz

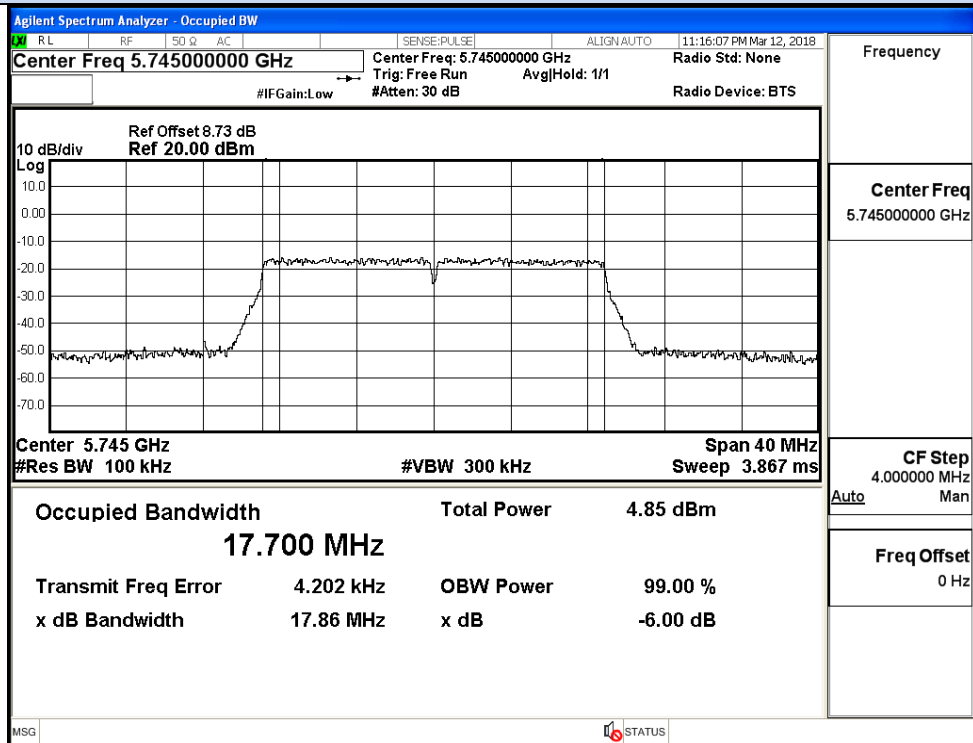
26dB Bandwidth



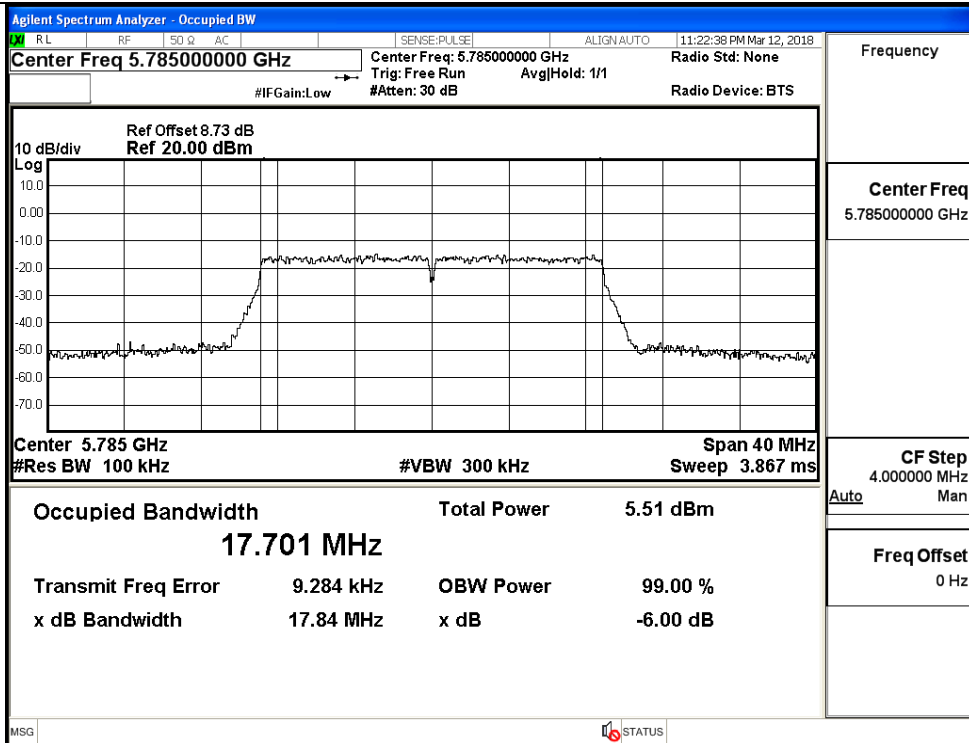
IEEE 802.11n40 / Channel 151 / 5755MHz



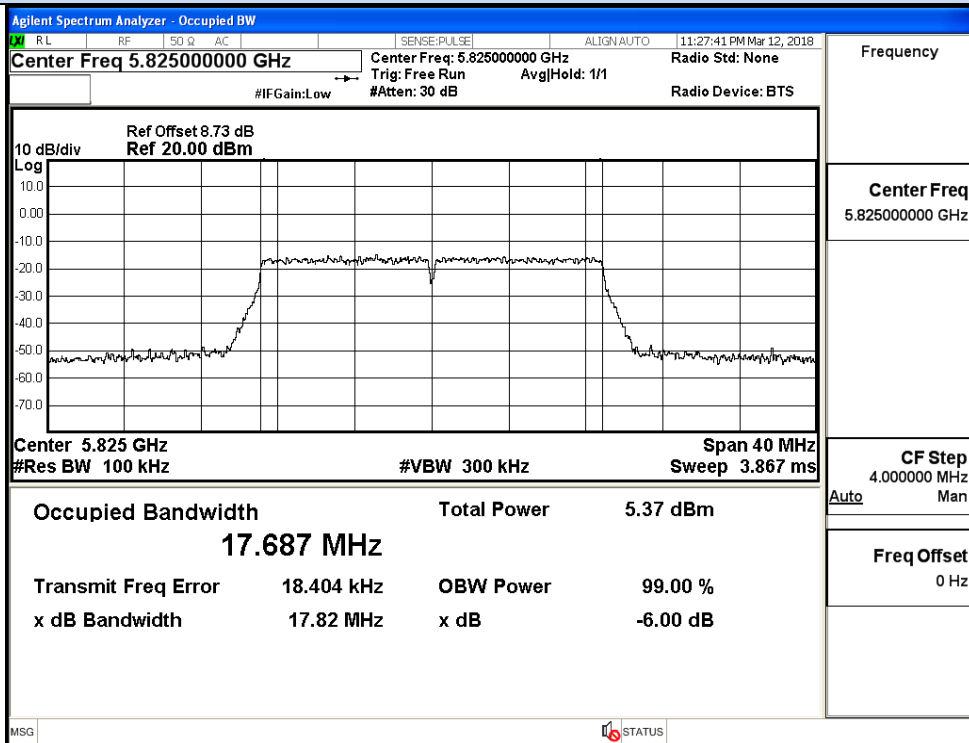
IEEE 802.11n40 / Channel 159 / 5795MHz



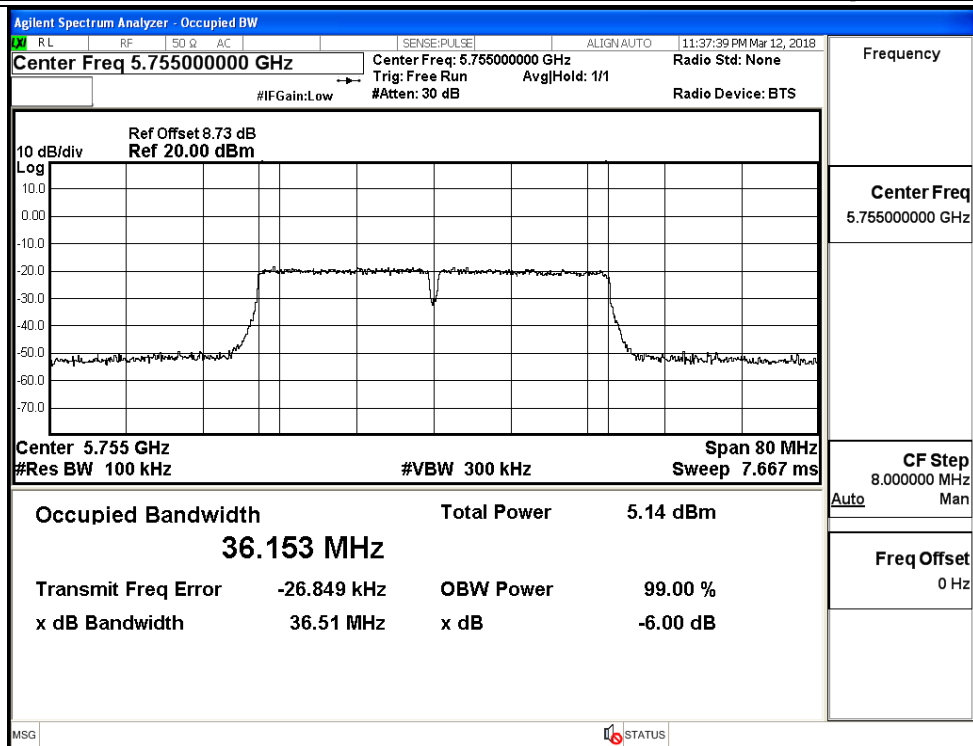
IEEE 802.11ac20 / Channel 149 / 5745MHz



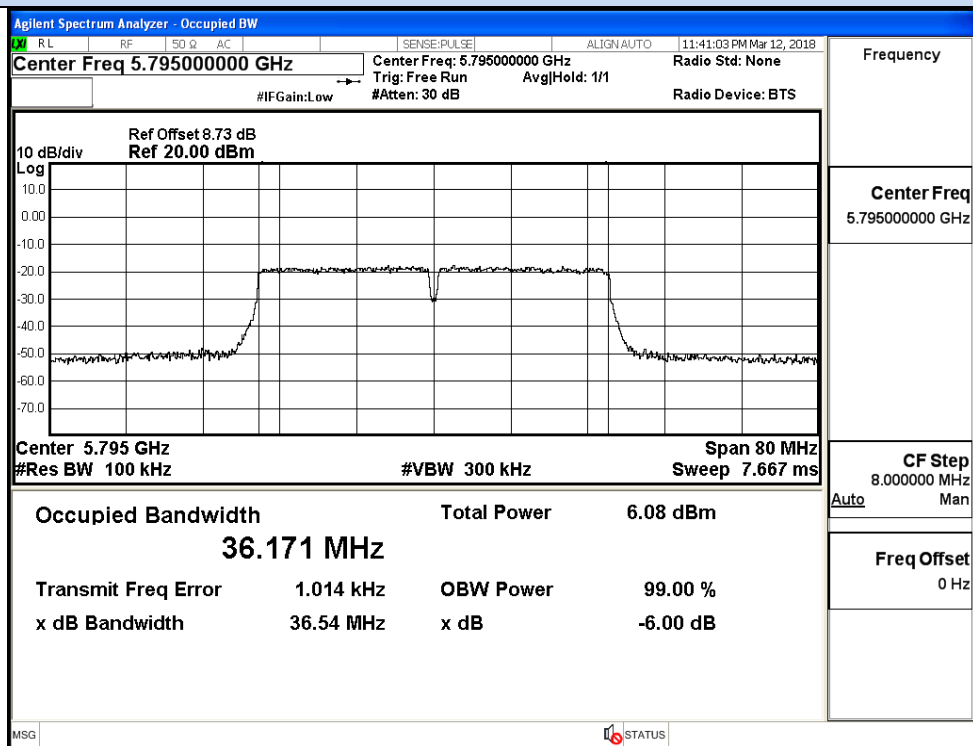
IEEE 802.11ac20 / Channel 157 / 5785MHz



IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



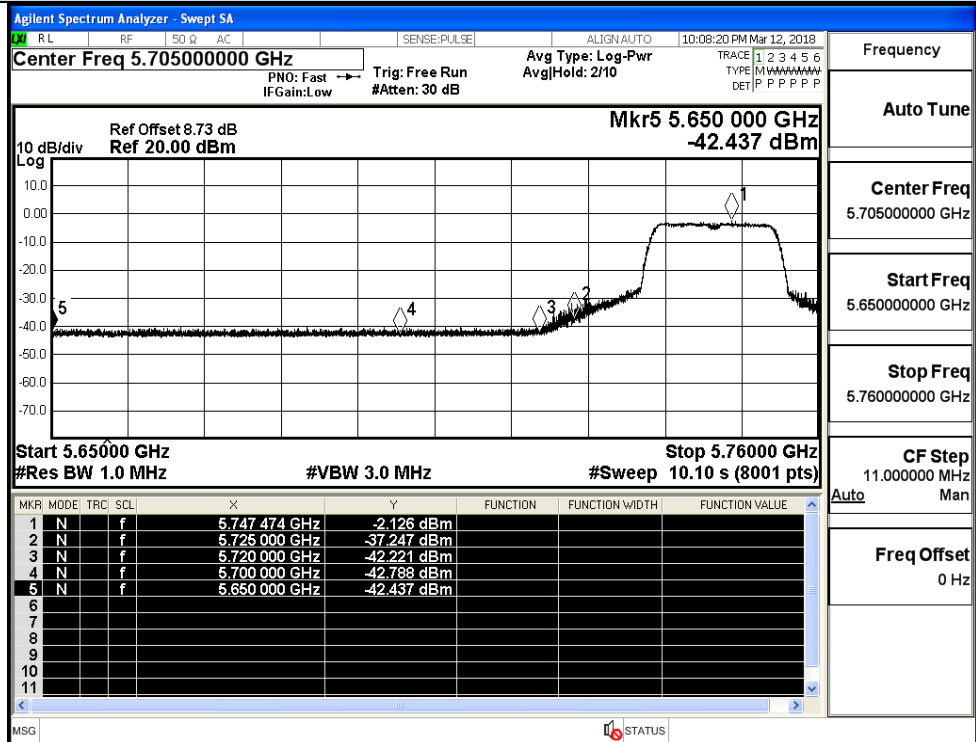
IEEE 802.11ac40 / Channel 159 / 5795MHz

D.4 Undesirable Emissions Measurement

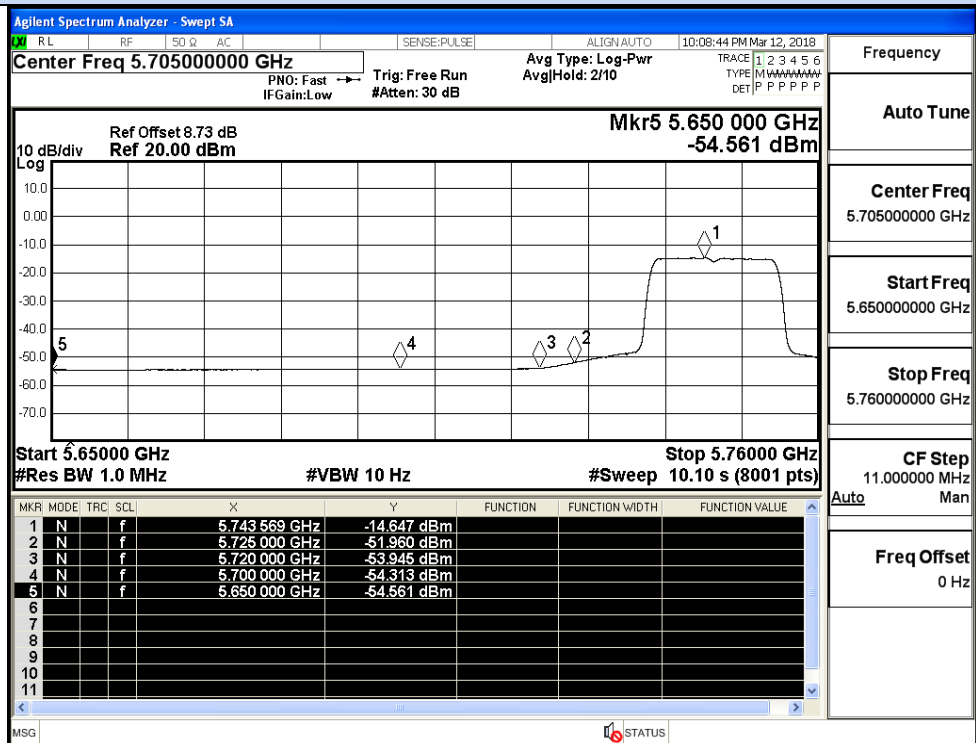
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11A	149	5650.0	-42.44	2.00	-42.22	Peak	27.0	Pass
		5650.0	-54.56	2.00	-53.95	Average	27.0	Pass
		5700.0	-42.79	2.00	-42.22	Peak	15.6	Pass
		5700.0	-54.31	2.00	-53.95	Average	15.6	Pass
		5720.0	-42.22	2.00	-42.22	Peak	10.0	Pass
		5720.0	-53.95	2.00	-53.95	Average	10.0	Pass
		5725.0	-37.25	2.00	-37.25	Peak	-27.0	Pass
		5725.0	-51.96	2.00	-51.96	Average	-27.0	Pass
	165	5850.0	-41.93	2.00	-41.93	Peak	-27.0	Pass
		5850.0	-53.88	2.00	-53.88	Average	-27.0	Pass
		5855.0	-42.55	2.00	-42.55	Peak	10.0	Pass
		5855.0	-54.01	2.00	-54.01	Average	10.0	Pass
		5875.0	-42.41	2.00	-42.55	Peak	15.6	Pass
		5875.0	-54.13	2.00	-54.01	Average	15.6	Pass
		5925.0	-42.43	2.00	-42.55	Peak	27.0	Pass
		5925.0	-54.28	2.00	-54.01	Average	27.0	Pass
11N20 SISO	149	5650.0	-42.66	2.00	-41.29	Peak	27.0	Pass
		5650.0	-54.55	2.00	-53.86	Average	27.0	Pass
		5700.0	-42.97	2.00	-41.29	Peak	15.6	Pass
		5700.0	-53.86	2.00	-53.86	Average	15.6	Pass
		5720.0	-41.29	2.00	-41.29	Peak	10.0	Pass
		5720.0	-54.35	2.00	-53.86	Average	10.0	Pass
		5725.0	-36.99	2.00	-36.99	Peak	-27.0	Pass
		5725.0	-51.63	2.00	-51.63	Average	-27.0	Pass
	165	5850.0	-42.18	2.00	-42.18	Peak	-27.0	Pass
		5850.0	-53.59	2.00	-53.59	Average	-27.0	Pass
		5855.0	-42.23	2.00	-42.23	Peak	10.0	Pass
		5855.0	-53.89	2.00	-53.89	Average	10.0	Pass
		5875.0	-42.36	2.00	-42.23	Peak	15.6	Pass
		5875.0	-54.00	2.00	-53.89	Average	15.6	Pass
		5925.0	-42.42	2.00	-42.23	Peak	27.0	Pass
		5925.0	-54.26	2.00	-53.89	Average	27.0	Pass

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11N40 SISO	151	5650.0	-42.62	2.00	-39.31	Peak	27.0	Pass
		5650.0	-54.45	2.00	-51.60	Average	27.0	Pass
		5700.0	-42.27	2.00	-39.31	Peak	15.6	Pass
		5700.0	-54.18	2.00	-51.60	Average	15.6	Pass
		5720.0	-39.31	2.00	-39.31	Peak	10.0	Pass
		5720.0	-51.60	2.00	-51.60	Average	10.0	Pass
		5725.0	-37.89	2.00	-37.89	Peak	-27.0	Pass
		5725.0	-50.58	2.00	-50.58	Average	-27.0	Pass
	159	5850.0	-42.86	2.00	-42.86	Peak	-27.0	Pass
		5850.0	-53.74	2.00	-53.74	Average	-27.0	Pass
		5855.0	-42.19	2.00	-42.19	Peak	10.0	Pass
		5855.0	-53.74	2.00	-53.74	Average	10.0	Pass
		5875.0	-42.88	2.00	-42.19	Peak	15.6	Pass
		5875.0	-53.80	2.00	-53.74	Average	15.6	Pass
		5925.0	-42.26	2.00	-42.19	Peak	27.0	Pass
		5925.0	-53.92	2.00	-53.74	Average	27.0	Pass
11AC2 0 SISO	149	5650.0	-42.28	2.00	-42.27	Peak	27.0	Pass
		5650.0	-54.64	2.00	-54.21	Average	27.0	Pass
		5700.0	-41.97	2.00	-42.27	Peak	15.6	Pass
		5700.0	-54.21	2.00	-54.21	Average	15.6	Pass
		5720.0	-42.27	2.00	-42.27	Peak	10.0	Pass
		5720.0	-54.46	2.00	-54.21	Average	10.0	Pass
		5725.0	-39.83	2.00	-39.83	Peak	-27.0	Pass
		5725.0	-53.35	2.00	-53.35	Average	-27.0	Pass
	165	5850.0	-42.72	2.00	-42.72	Peak	-27.0	Pass
		5850.0	-53.93	2.00	-53.93	Average	-27.0	Pass
		5855.0	-42.70	2.00	-42.70	Peak	10.0	Pass
		5855.0	-54.02	2.00	-54.02	Average	10.0	Pass
		5875.0	-42.75	2.00	-42.70	Peak	15.6	Pass
		5875.0	-54.07	2.00	-54.02	Average	15.6	Pass
		5925.0	-41.61	2.00	-42.70	Peak	27.0	Pass
		5925.0	-54.27	2.00	-54.02	Average	27.0	Pass
11AC4 0 SISO	151	5650.0	-43.50	2.00	-40.76	Peak	27.0	Pass
		5650.0	-54.48	2.00	-53.27	Average	27.0	Pass
		5700.0	-42.92	2.00	-40.76	Peak	15.6	Pass
		5700.0	-54.30	2.00	-53.27	Average	15.6	Pass
		5720.0	-40.76	2.00	-40.76	Peak	10.0	Pass
		5720.0	-53.27	2.00	-53.27	Average	10.0	Pass
		5725.0	-40.22	2.00	-40.22	Peak	-27.0	Pass
		5725.0	-52.75	2.00	-52.75	Average	-27.0	Pass
	159	5850.0	-42.21	2.00	-42.21	Peak	-27.0	Pass
		5850.0	-53.70	2.00	-53.70	Average	-27.0	Pass
		5855.0	-42.27	2.00	-42.27	Peak	10.0	Pass
		5855.0	-53.75	2.00	-53.75	Average	10.0	Pass
		5875.0	-42.34	2.00	-42.27	Peak	15.6	Pass
		5875.0	-53.78	2.00	-53.75	Average	15.6	Pass
		5925.0	-42.33	2.00	-42.27	Peak	27.0	Pass
		5925.0	-53.92	2.00	-53.75	Average	27.0	Pass

Undesirable Emissions Measurement

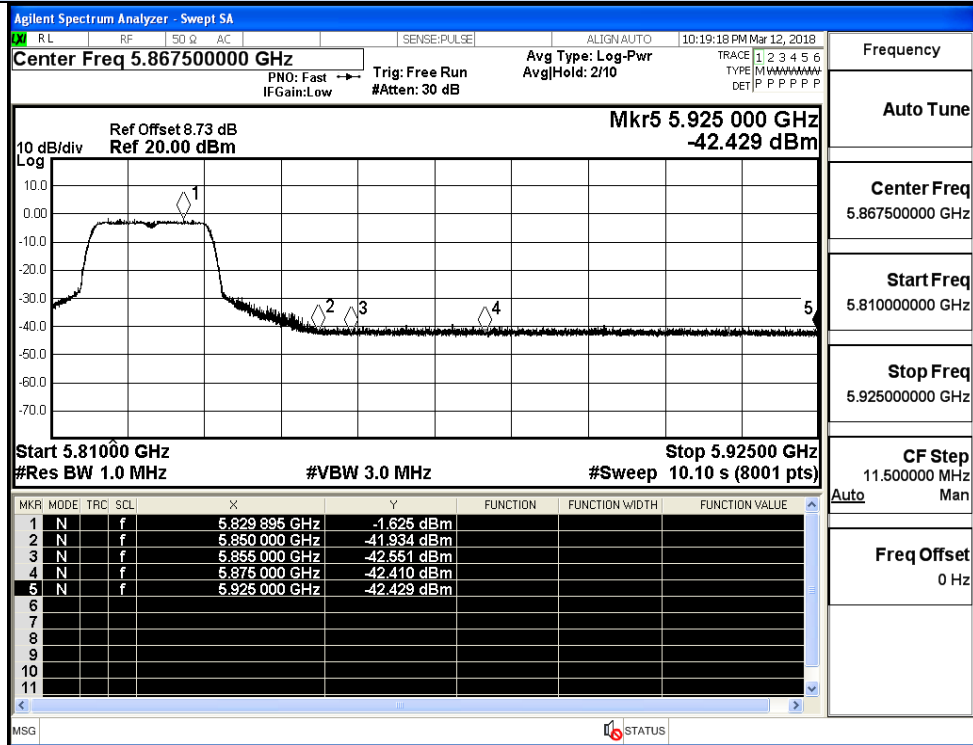


IEEE 802.11a / Channel 149 / 5745MHz / Peak

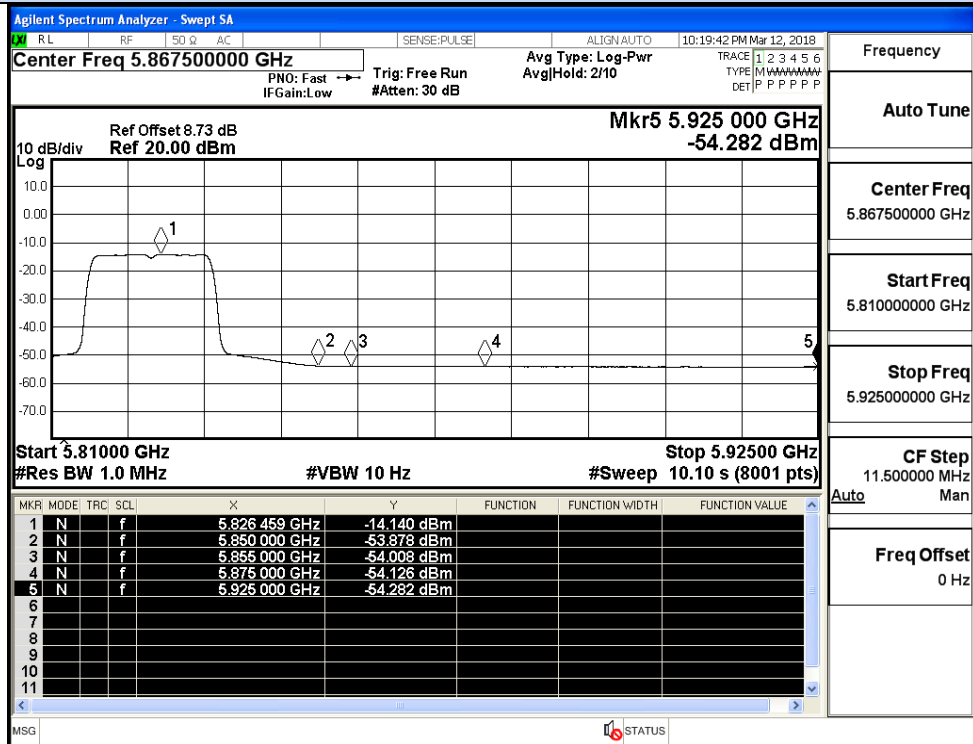


IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement

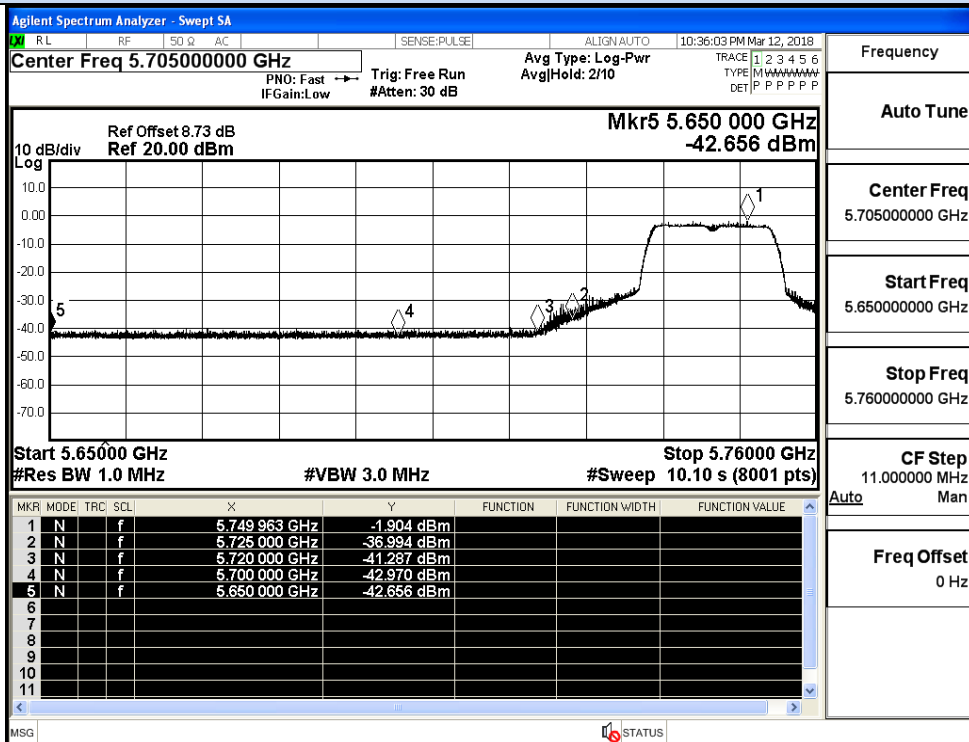


IEEE 802.11a / Channel 165 / 5825MHz / Peak

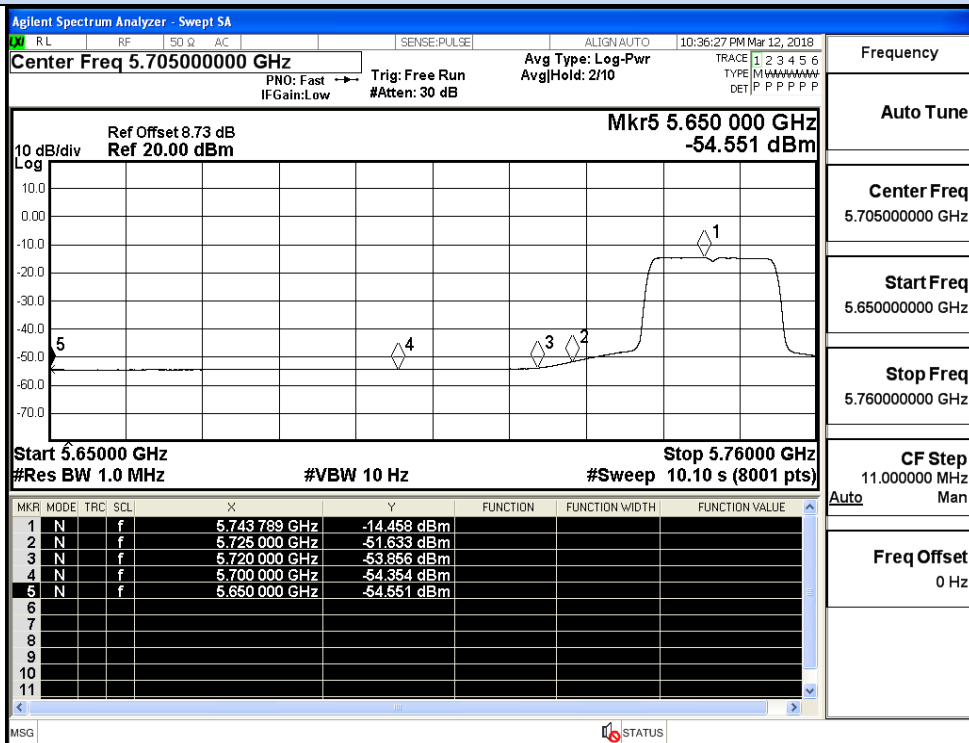


IEEE 802.11a / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

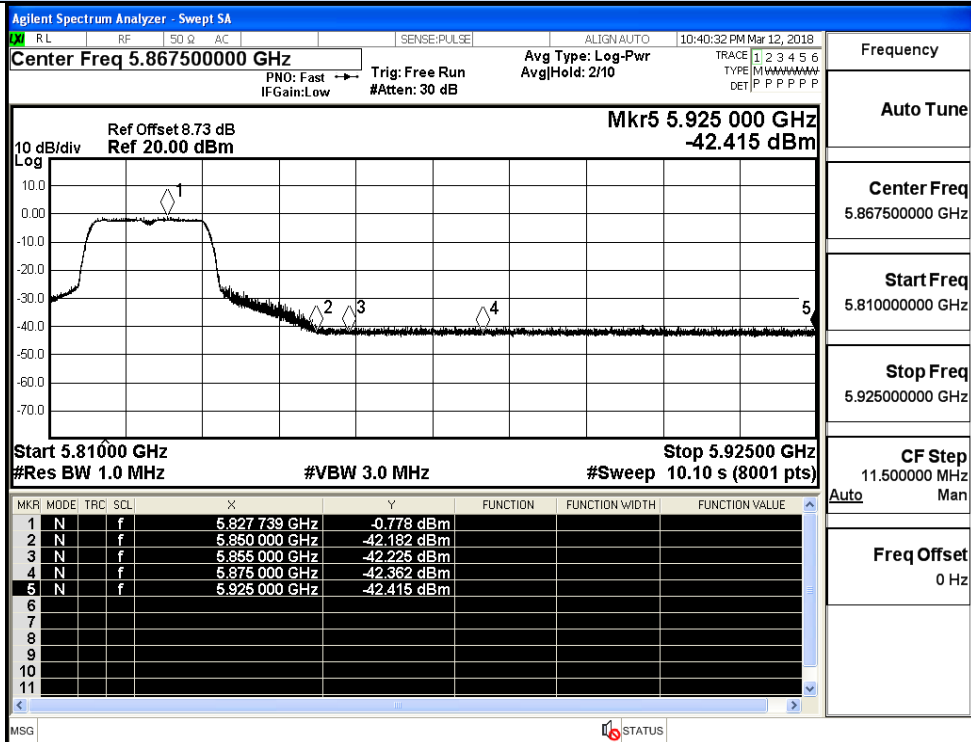


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

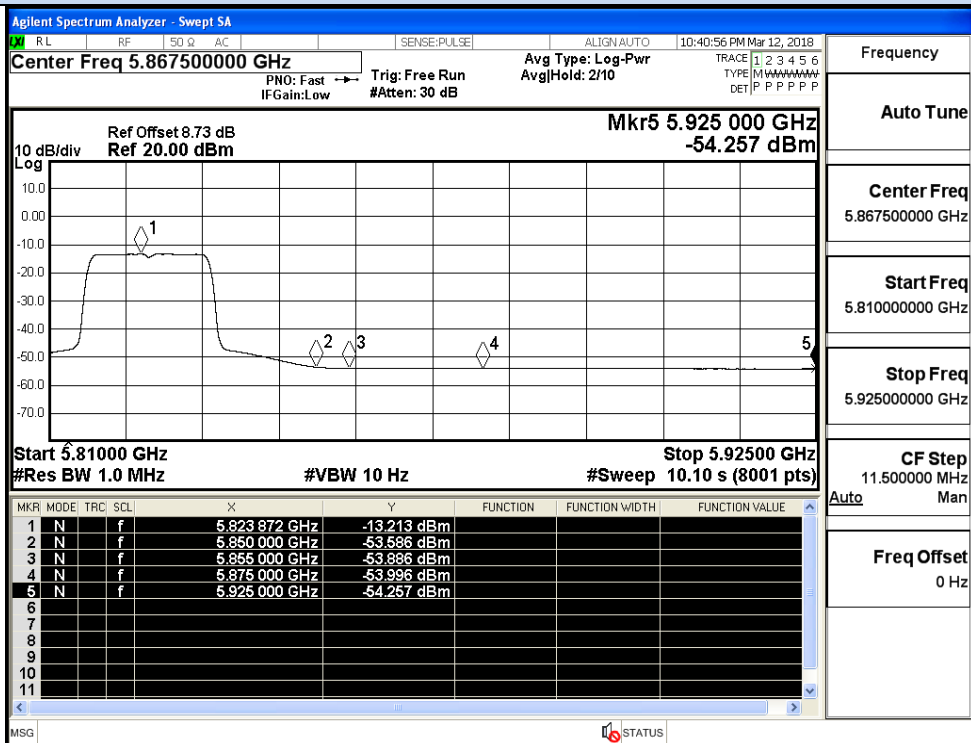


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

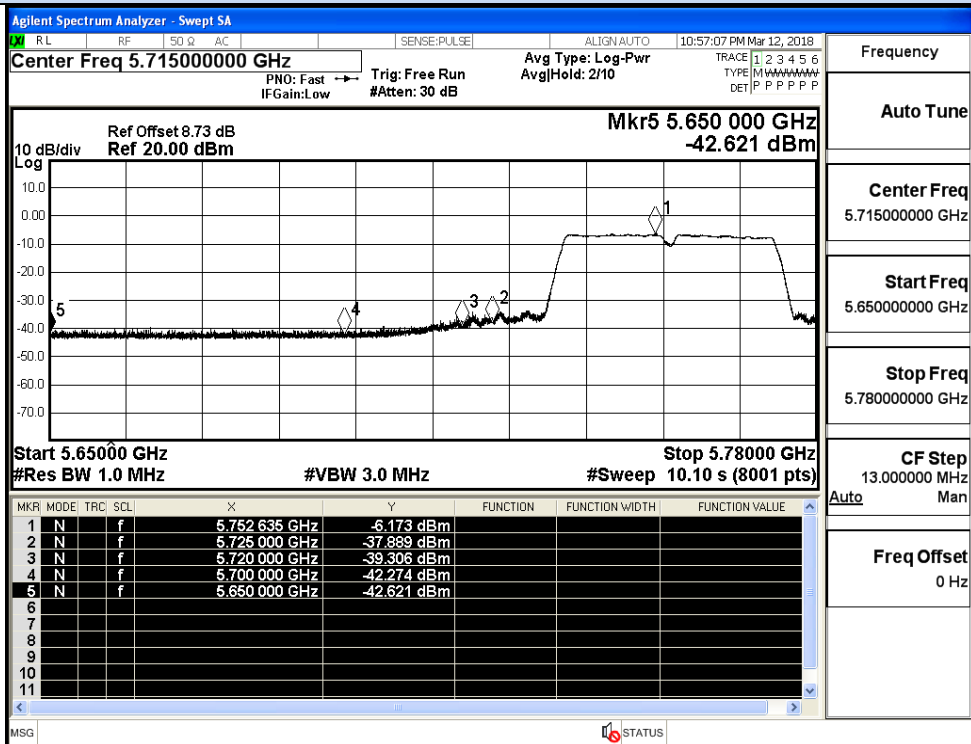


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

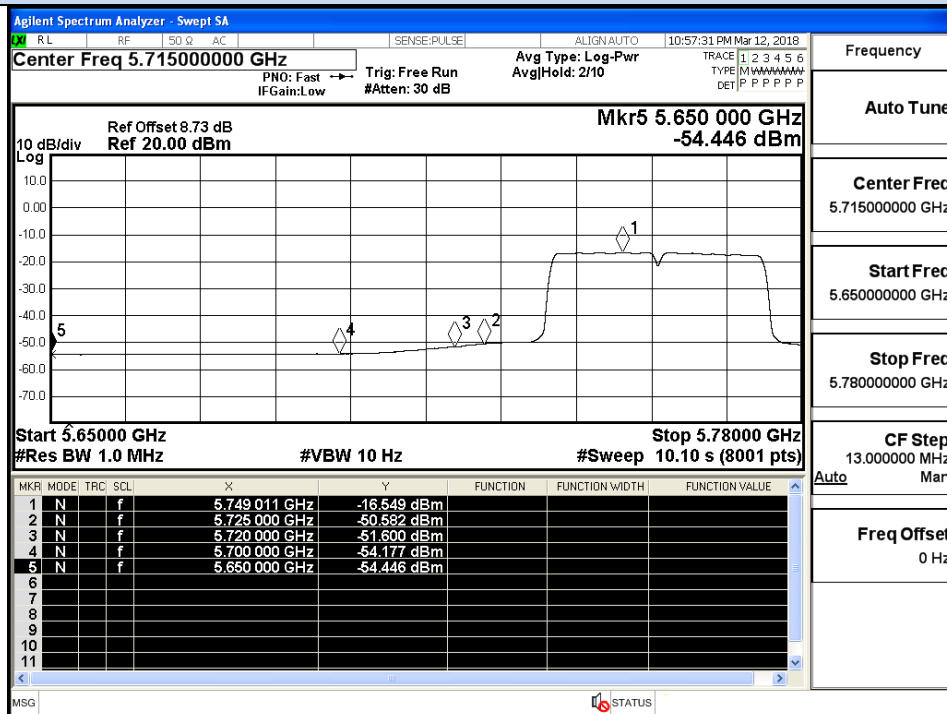


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

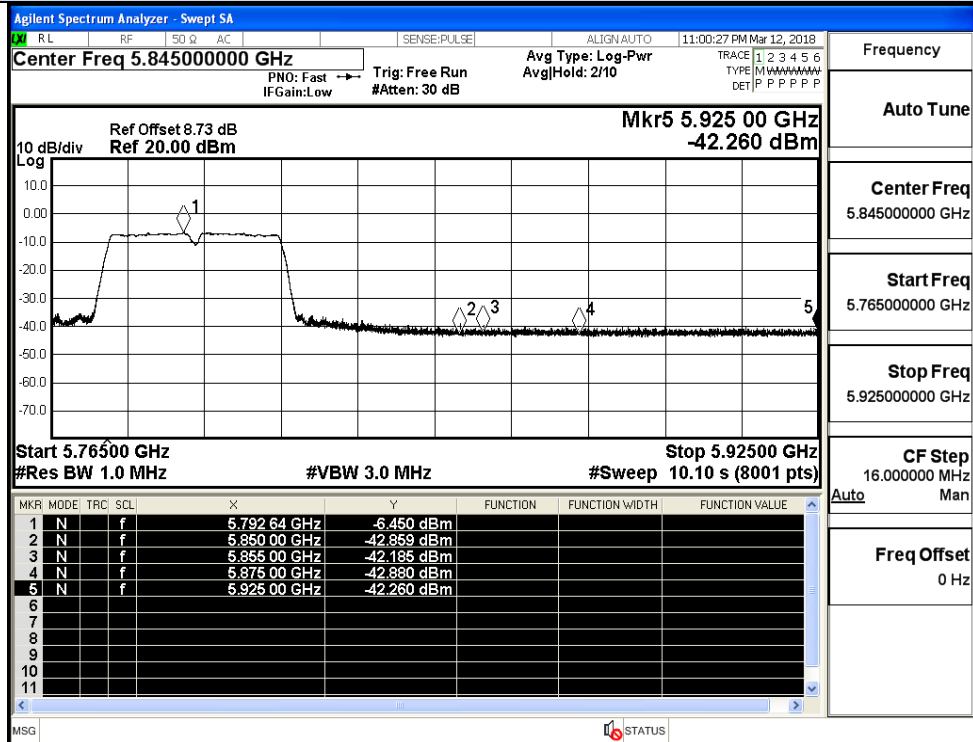


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

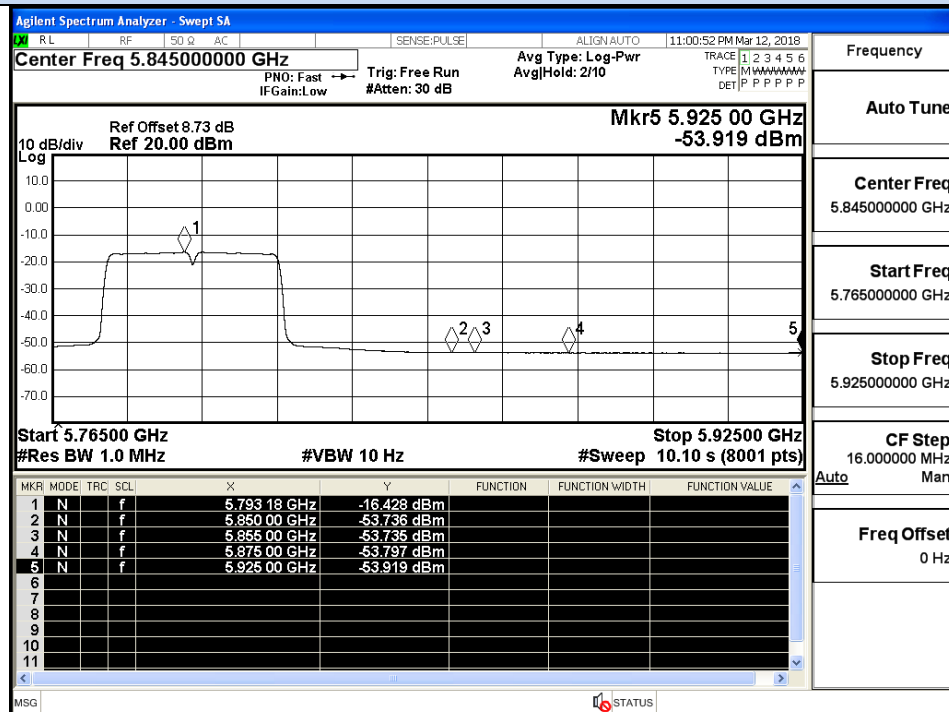


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

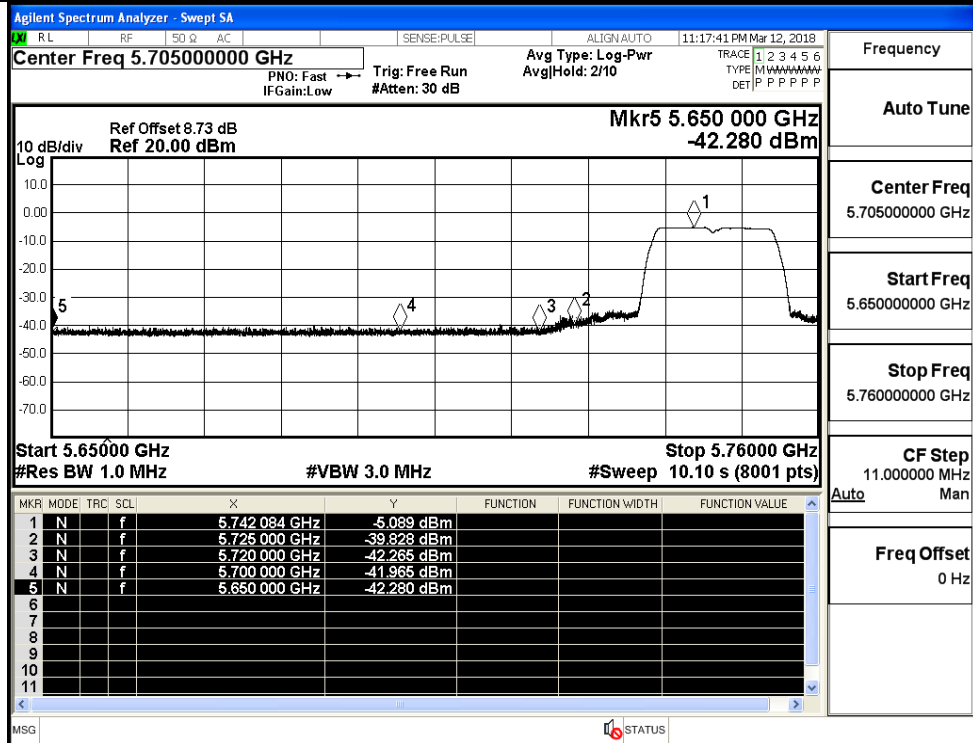
Undesirable Emissions Measurement



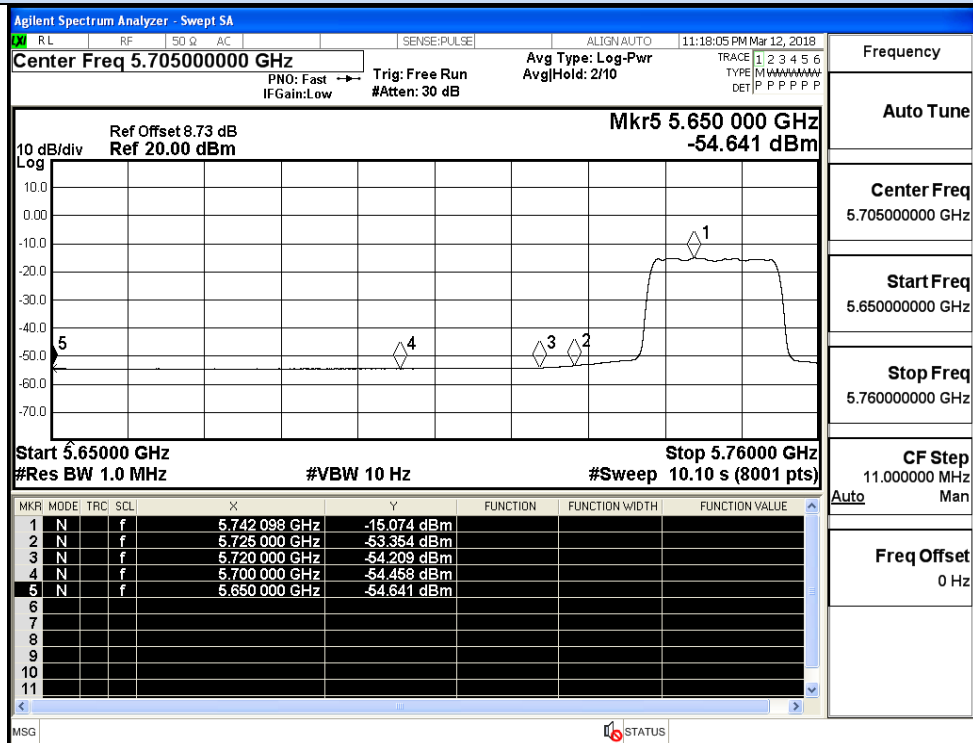
IEEE 802.11n40 / Channel 159 / 5795MHz / Peak



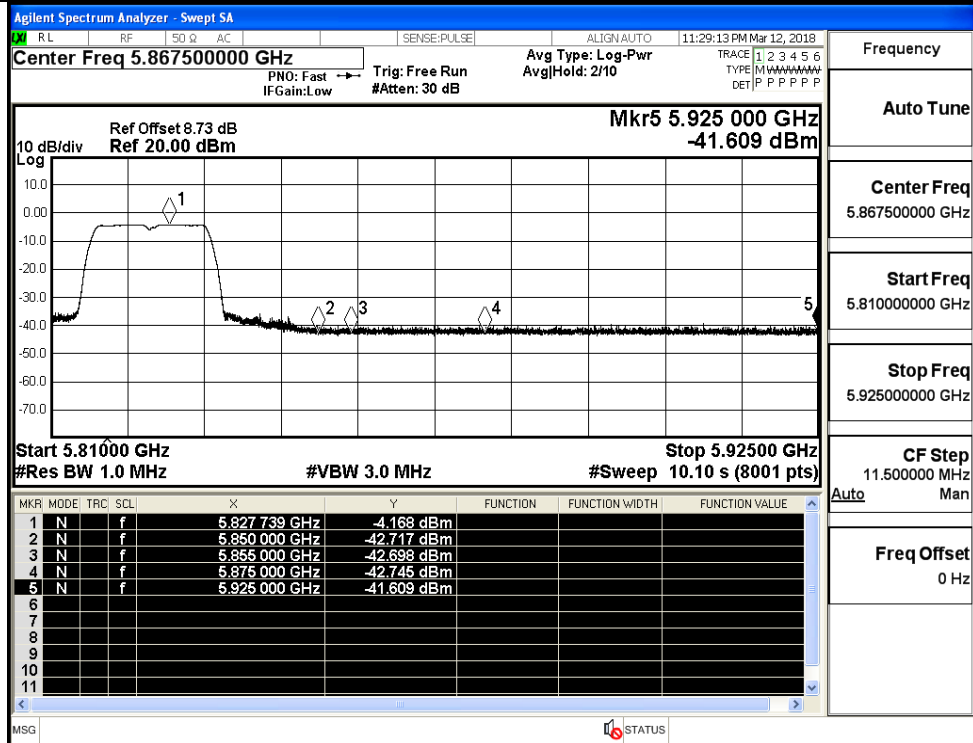
IEEE 802.11n40 / Channel 159 / 5795MHz / Average



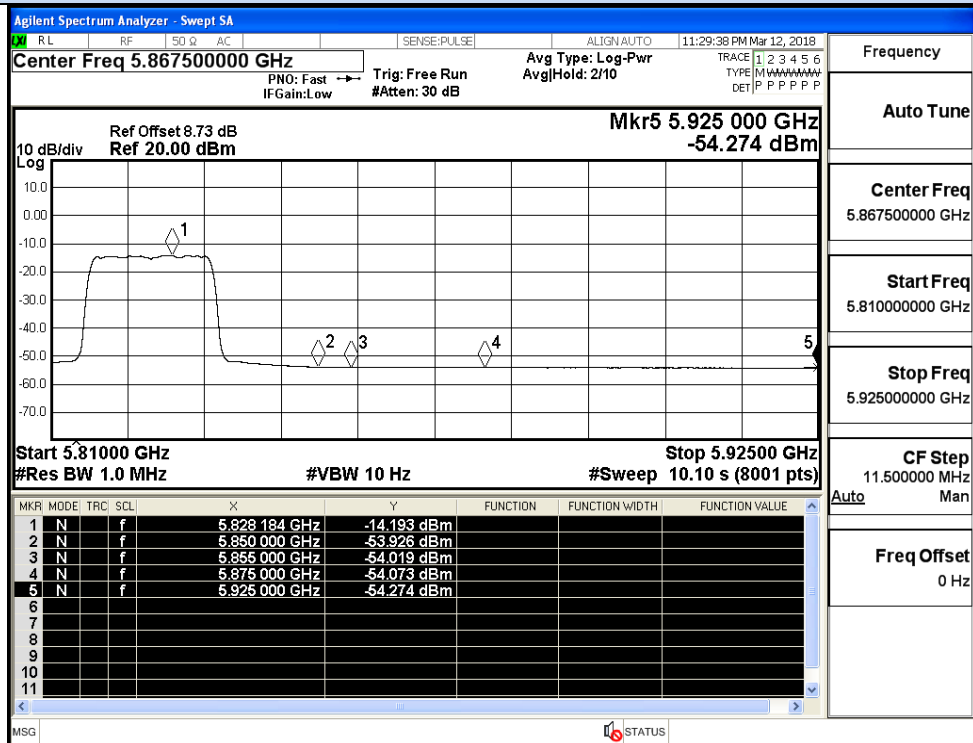
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



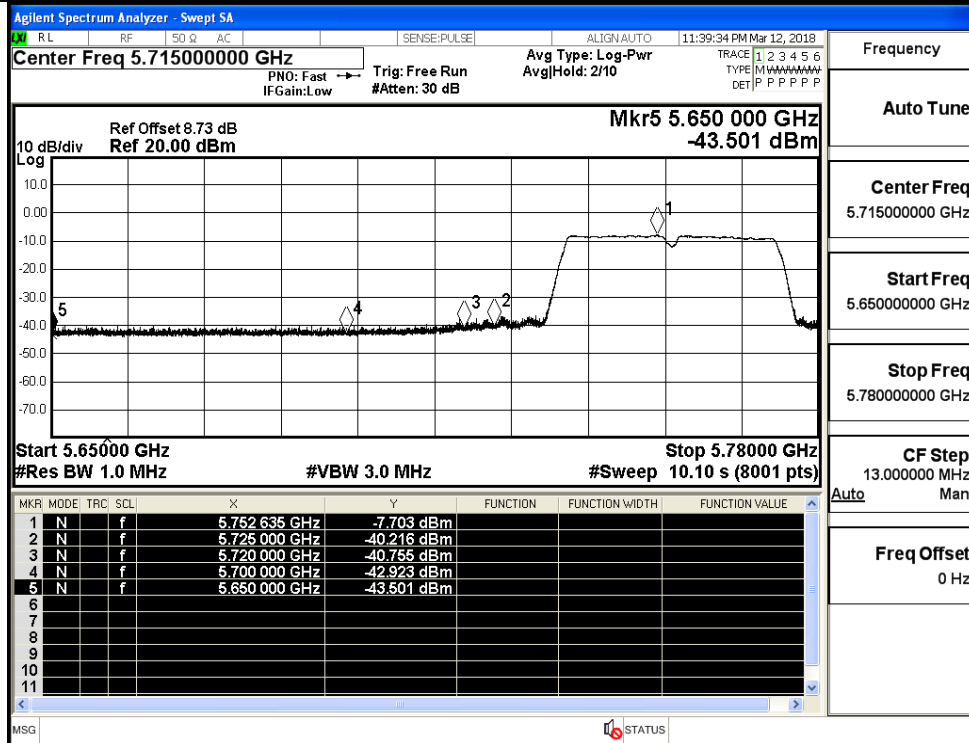
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



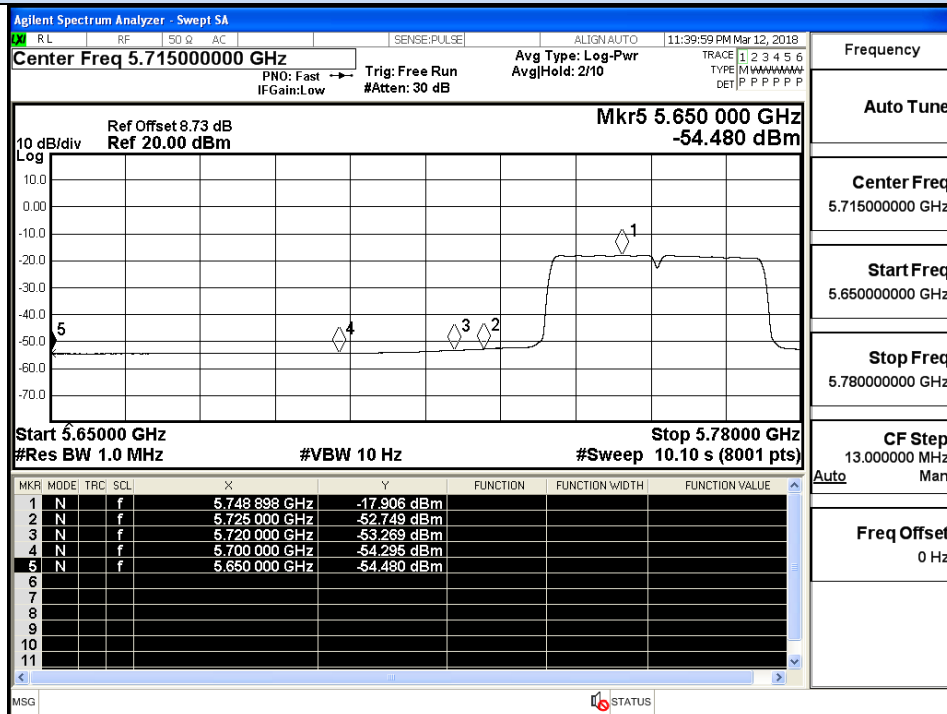
IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak



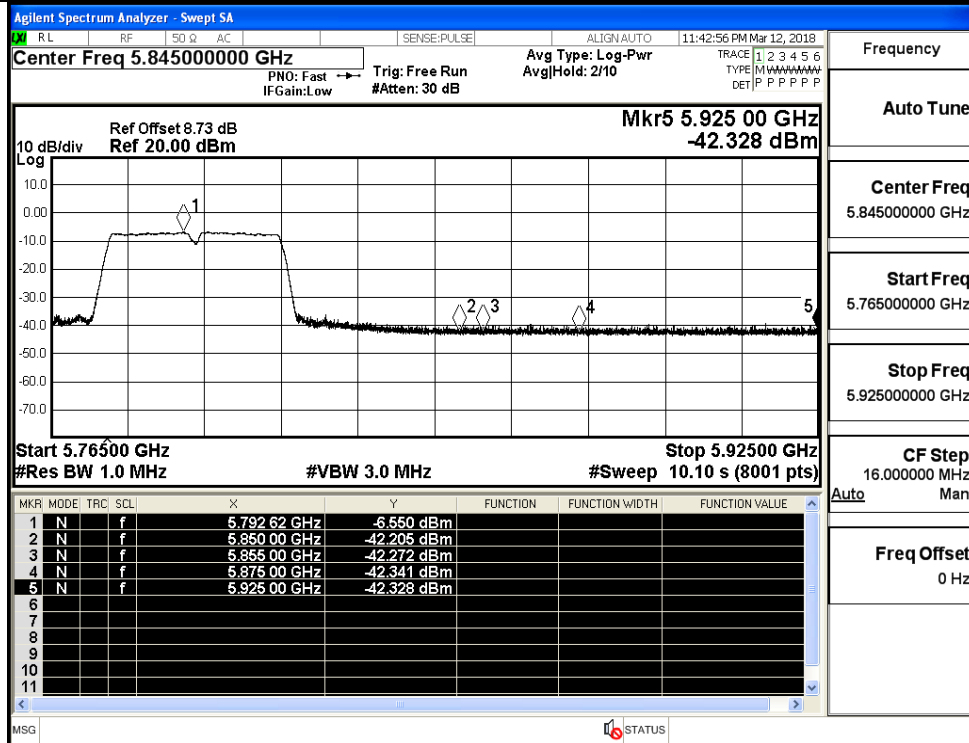
IEEE 802.11ac20 / Channel 165 / 5825MHz / Average



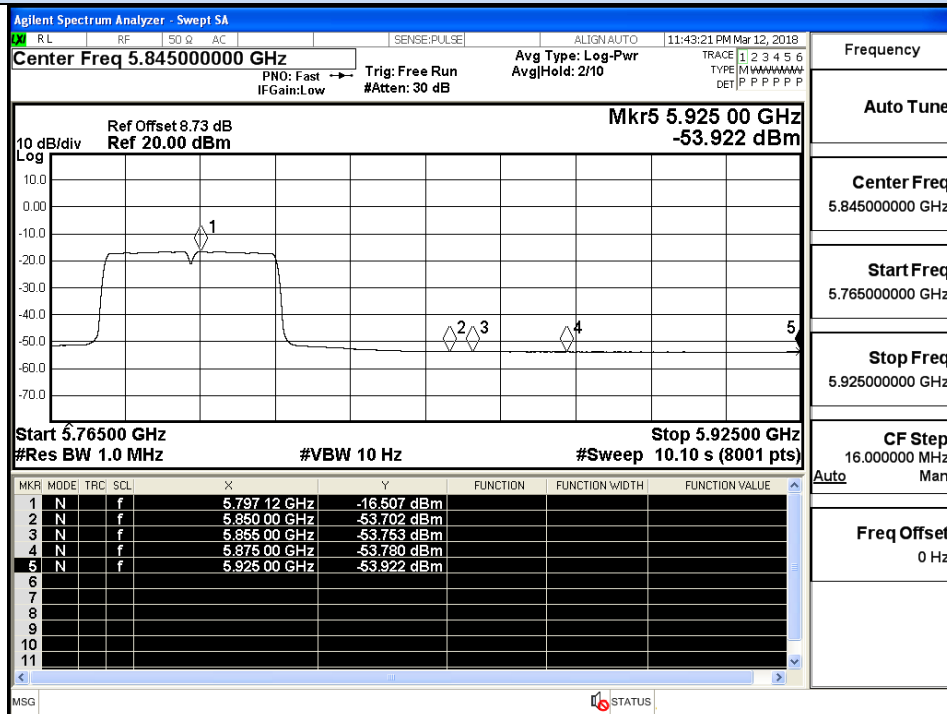
IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



IEEE 802.11ac40 / Channel 151 / 5755MHz / Average



IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak



IEEE 802.11ac40 / Channel 159 / 5795MHz / Average