Appendix C

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Panda Wireless AC600 Dual Band Wireless AC USB Adapter With 5dBi Antenna

Trade Mark: Panda Wireless

Test Model: PAU0B

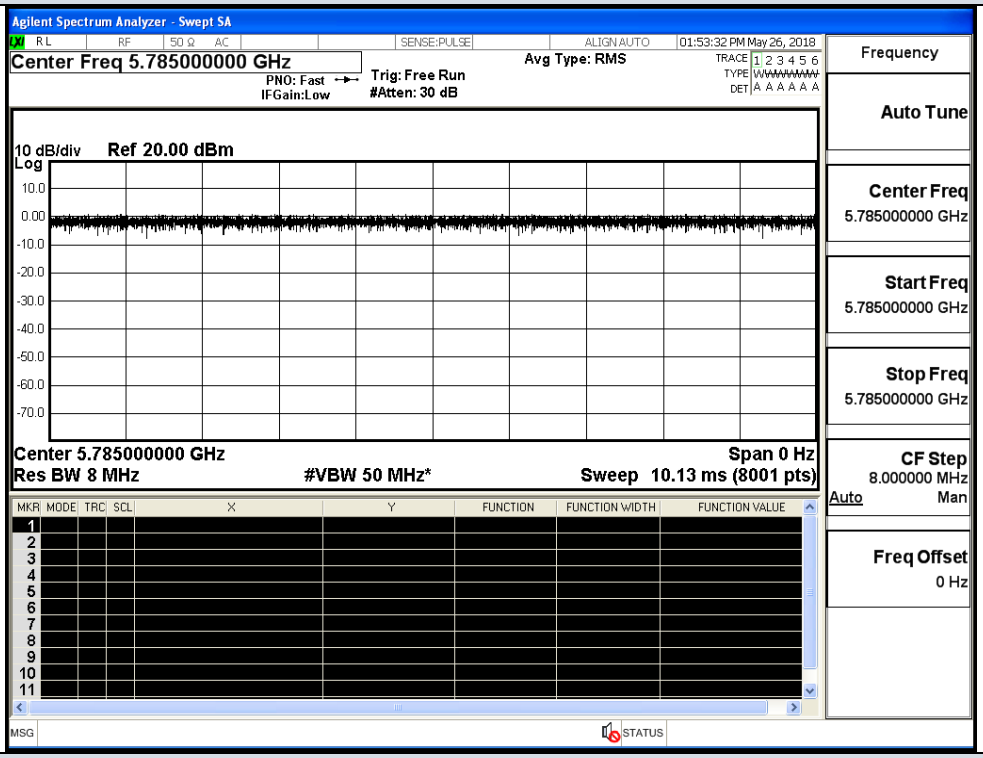
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

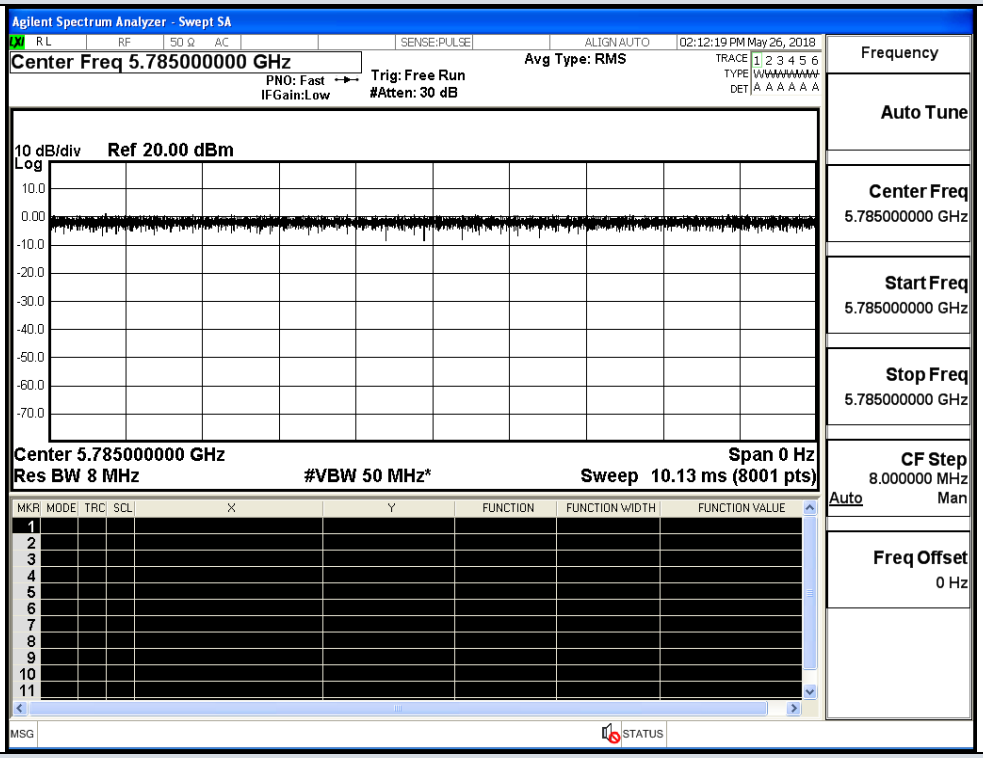
C.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
IEEE 802.11a	5785	100	0.00	0.01
IEEE 802.11n HT20	5785	100	0.00	0.01
IEEE 802.11n HT10	5755	100	0.00	0.01
IEEE 802.11ac VHT20	5785	100	0.00	0.01
IEEE 802.11ac VHT40	5755	100	0.00	0.01
IEEE 802.11ac VHT80	5775	100	0.00	0.01

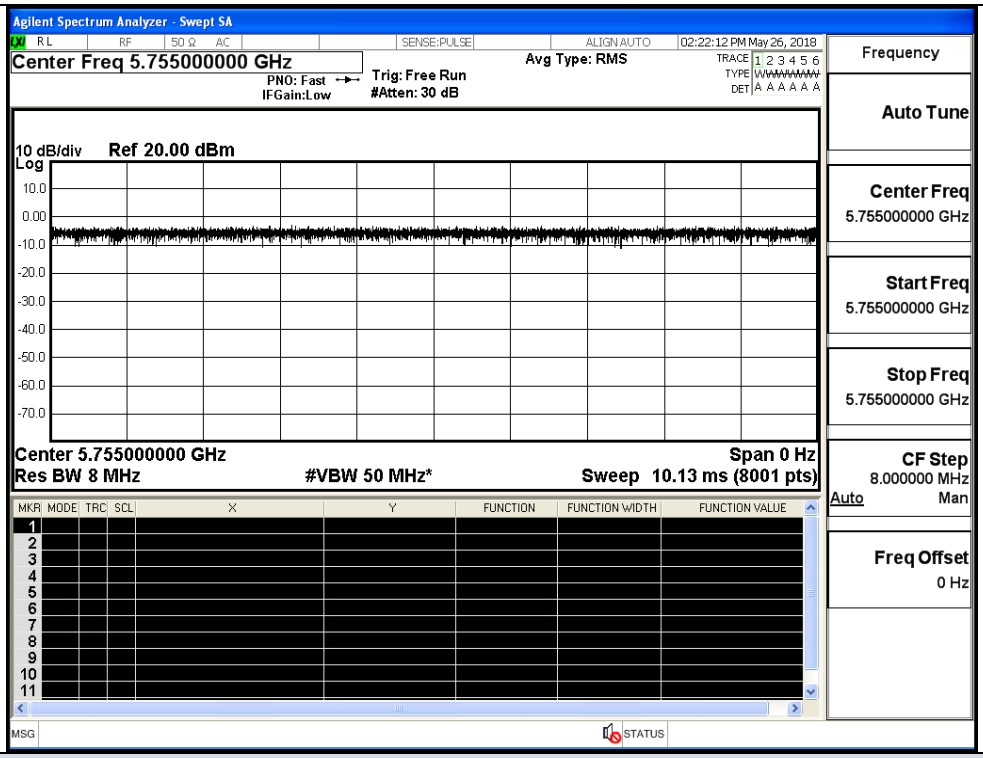
On Time and Duty Cycle



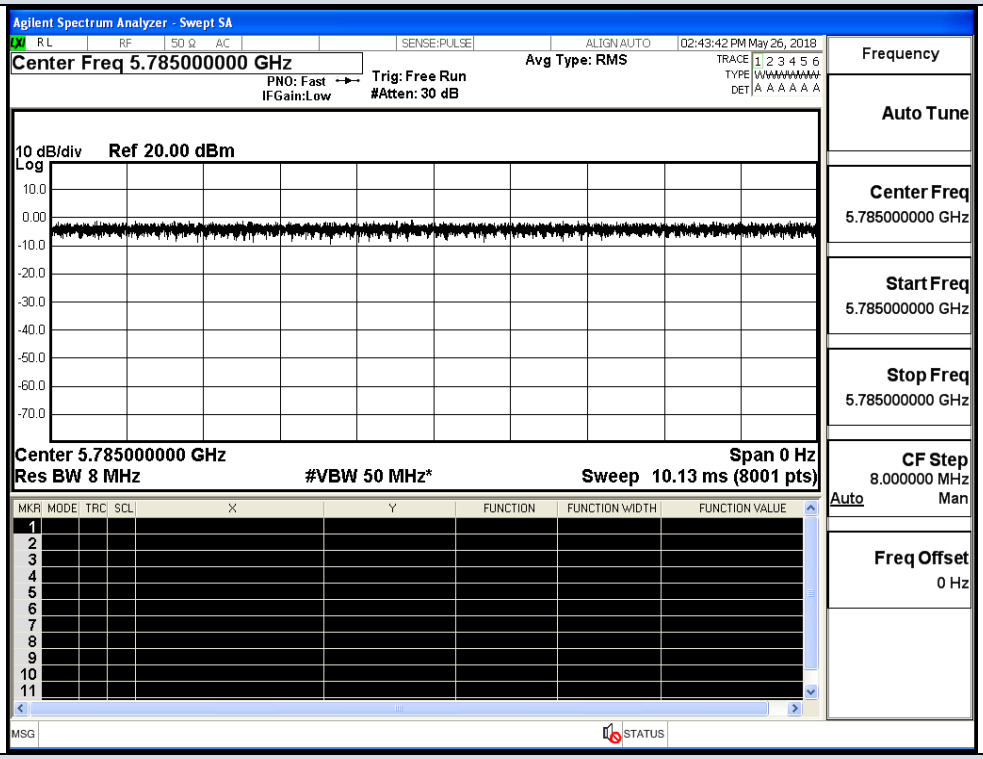
IEEE 802.11a



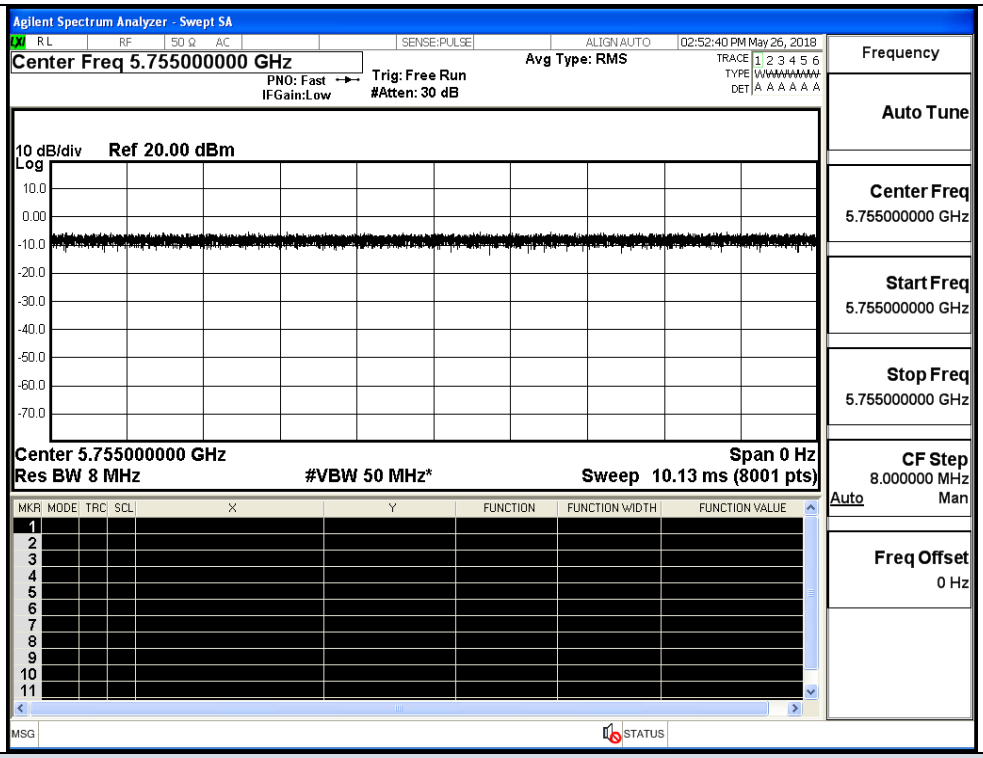
IEEE 802.11n HT20



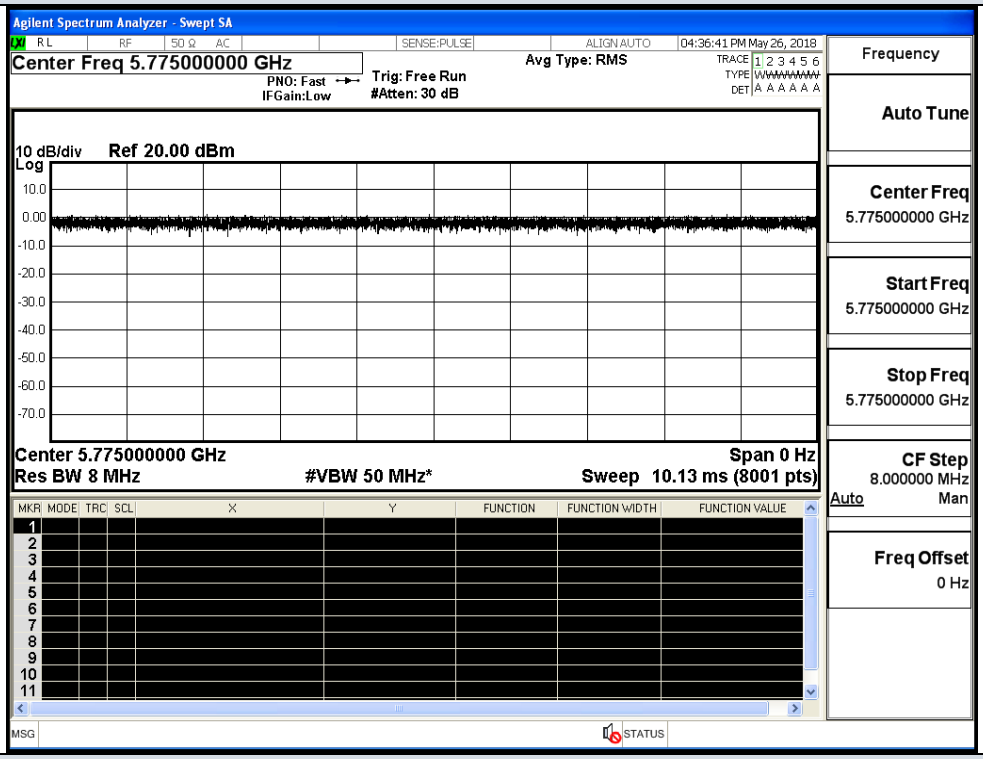
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

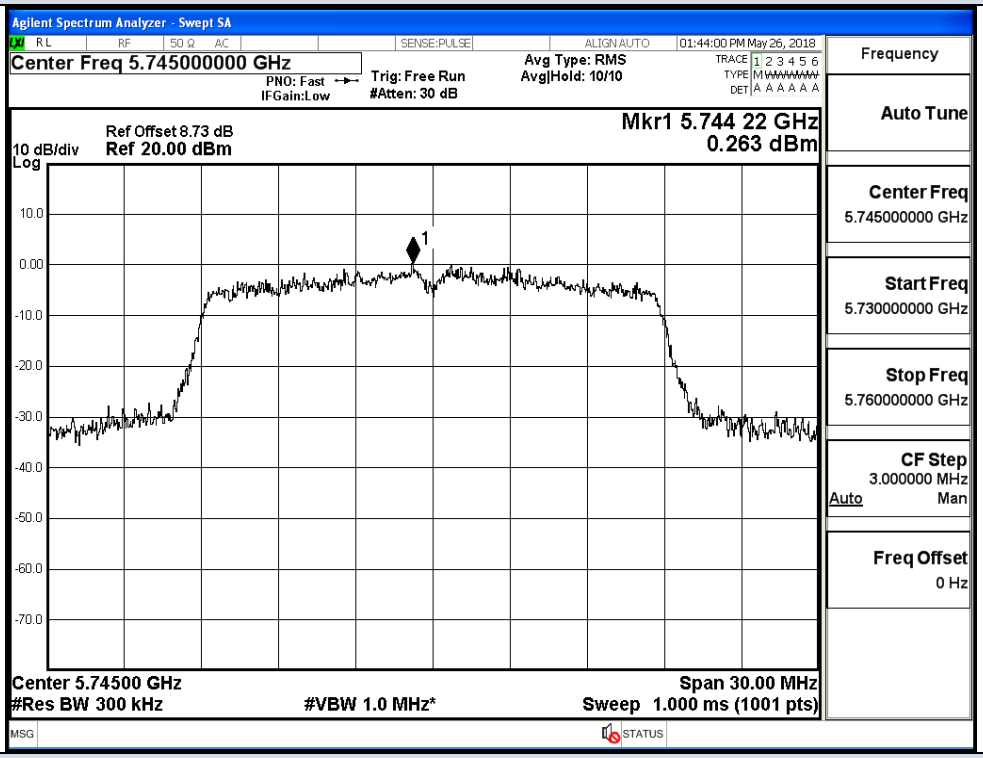
C.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)
IEEE 802.11a	149	5745	13.83	0	13.83	30
	157	5785	14.20	0	14.20	
	165	5825	14.50	0	14.50	
IEEE 802.11n HT20	149	5745	13.93	0	13.93	30
	157	5785	14.21	0	14.21	
	165	5825	14.49	0	14.49	
IEEE 802.11n HT40	151	5755	14.09	0	14.09	30
	159	5795	13.55	0	13.55	
IEEE 802.11ac VHT20	149	5745	12.81	0	12.81	30
	157	5785	13.26	0	13.26	
	165	5825	13.71	0	13.71	
IEEE 802.11ac VHT40	151	5755	13.51	0	13.51	30
	159	5795	14.17	0	14.17	
IEEE 802.11ac VHT80	155	5775	10.52	0	10.52	30

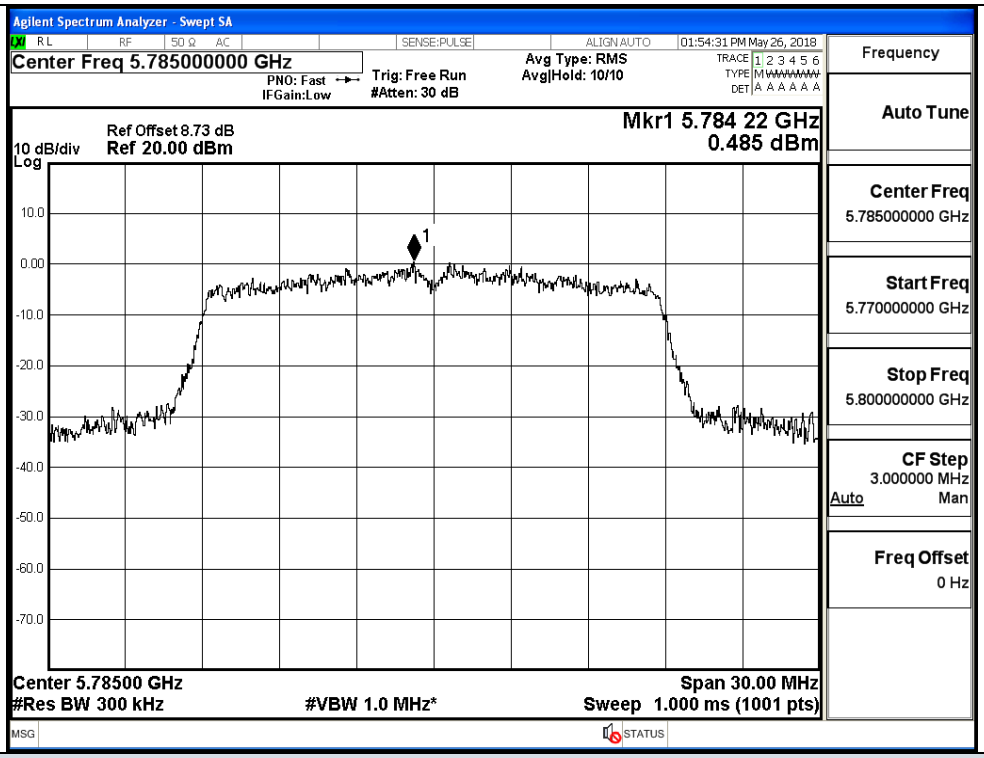
C.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
IEEE 802.11a	149	5745	0.263	0	2.218	2.481	30
	157	5785	0.485	0	2.218	2.703	
	165	5825	0.200	0	2.218	2.418	
IEEE 802.11n HT20	149	5745	-0.096	0	2.218	2.122	30
	157	5785	0.332	0	2.218	2.550	
	165	5825	0.113	0	2.218	2.331	
IEEE 802.11n HT40	151	5755	-3.328	0	2.218	-1.110	30
	159	5795	-4.533	0	2.218	-2.315	
IEEE 802.11ac VHT20	149	5745	-1.829	0	2.218	0.389	30
	157	5785	-0.967	0	2.218	1.251	
	165	5825	-0.773	0	2.218	1.445	
IEEE 802.11ac VHT40	151	5755	-4.800	0	2.218	-2.582	30
	159	5795	-4.969	0	2.218	-2.751	
IEEE 802.11ac VHT80	155	5775	-10.892	0	2.218	-8.674	30

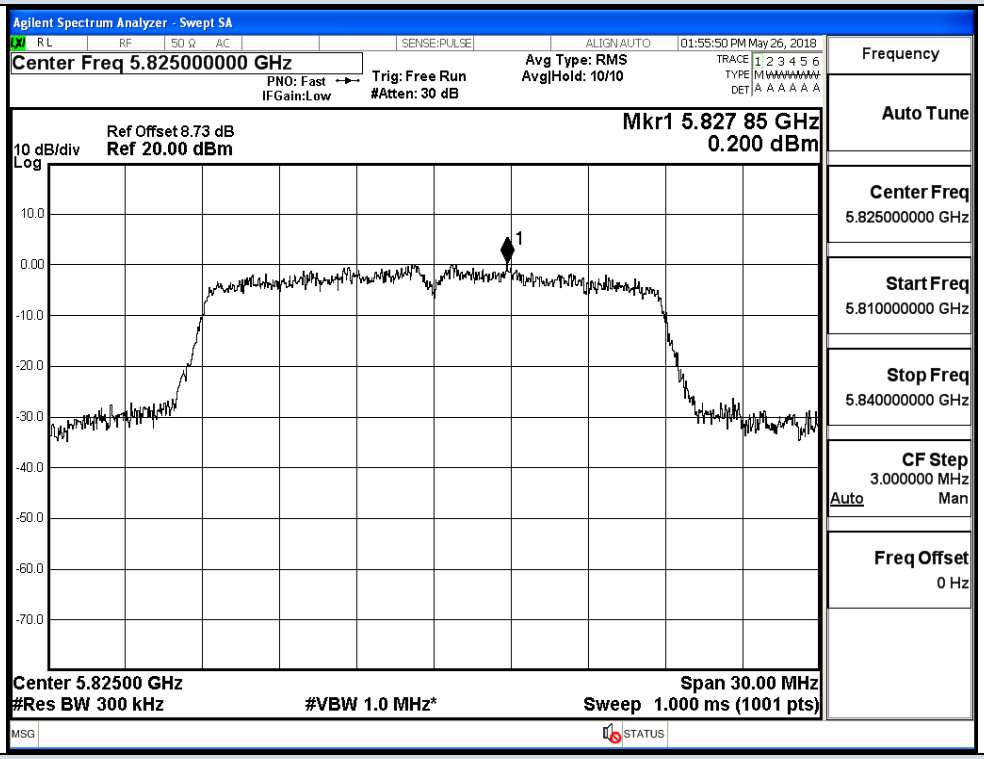
Power Spectral Density



IEEE 802.11a / Channel 149 / 5745 MHz

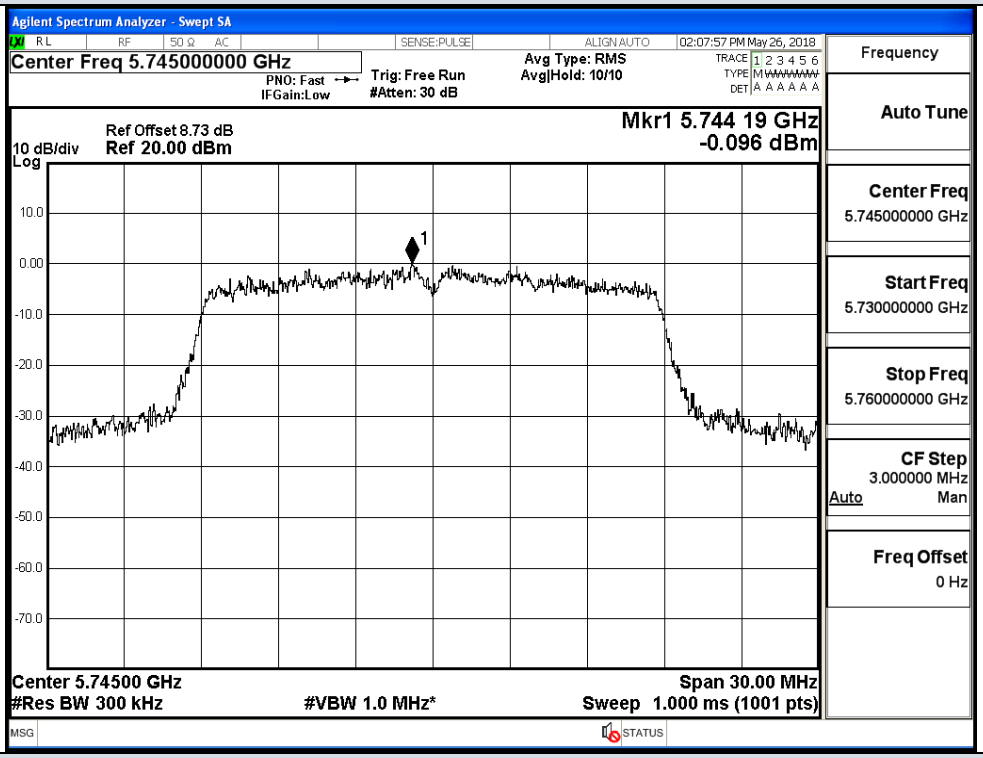


IEEE 802.11a / Channel 157 / 5785 MHz

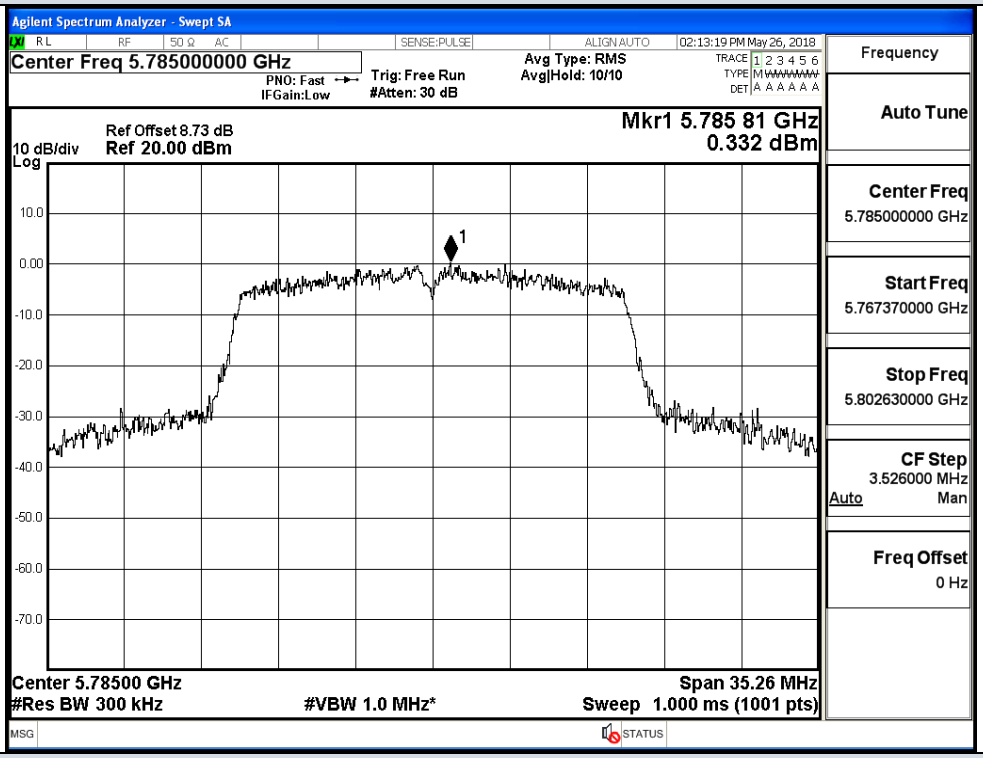


IEEE 802.11a / Channel 165 / 5825 MHz

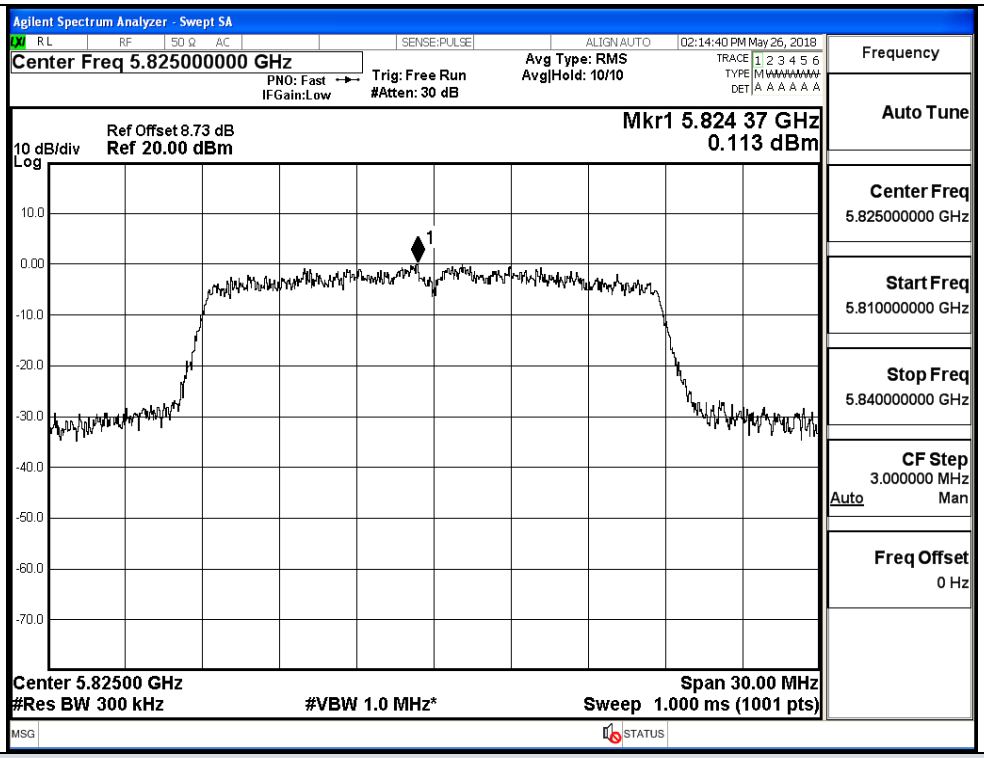
Power Spectral Density



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

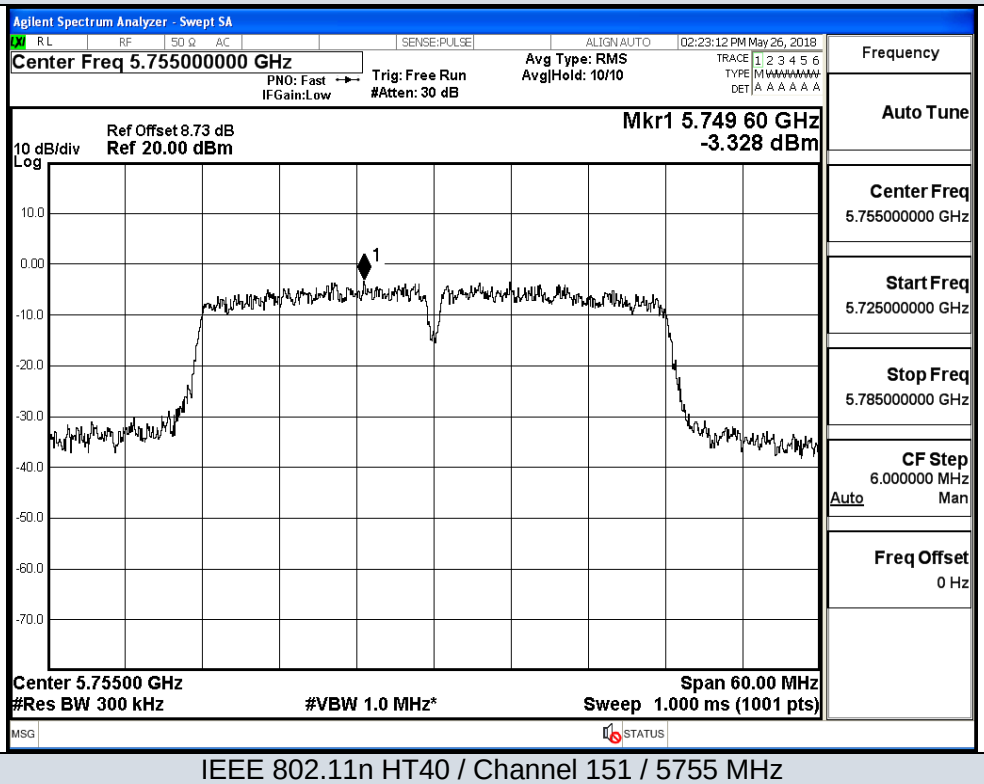


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

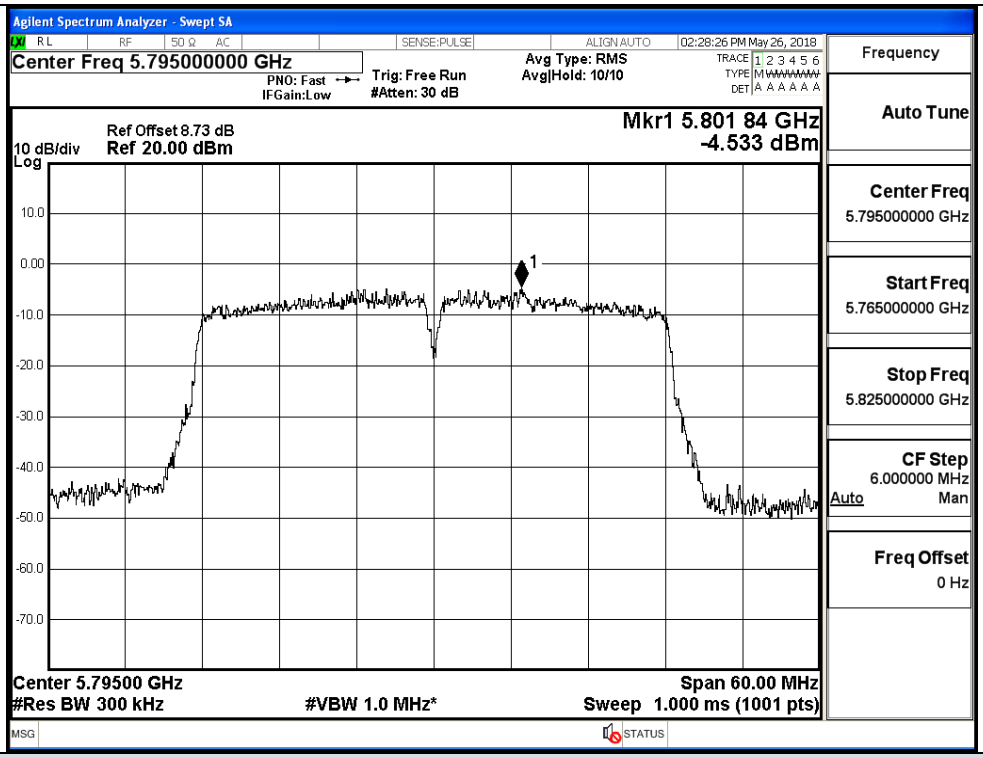


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

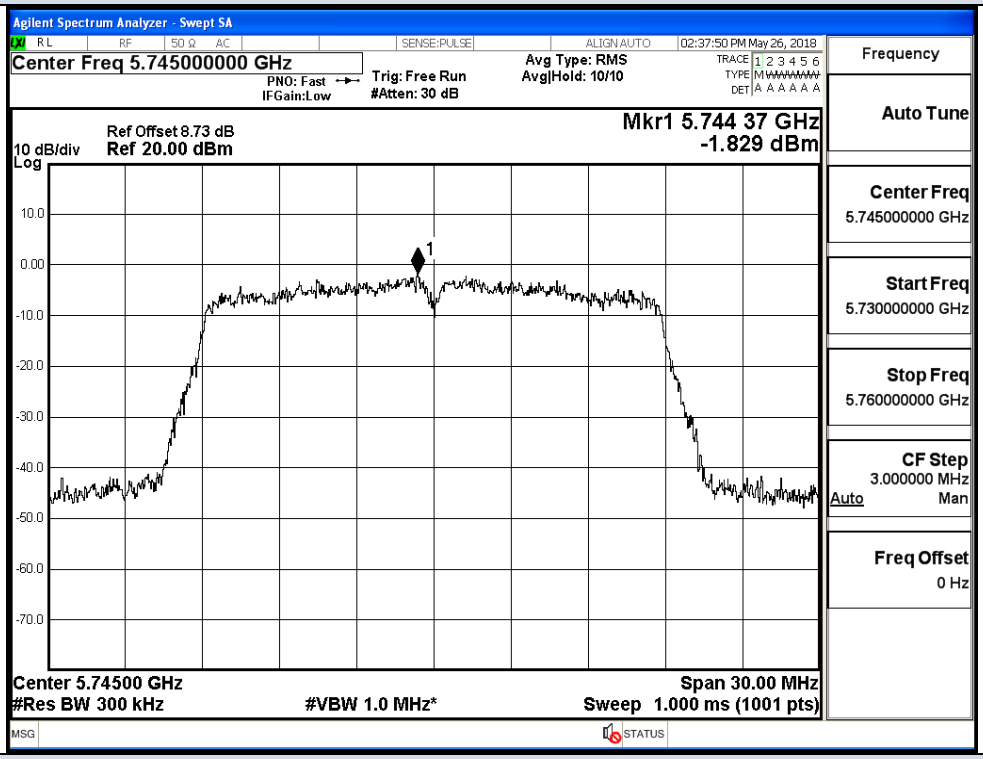
Power Spectral Density



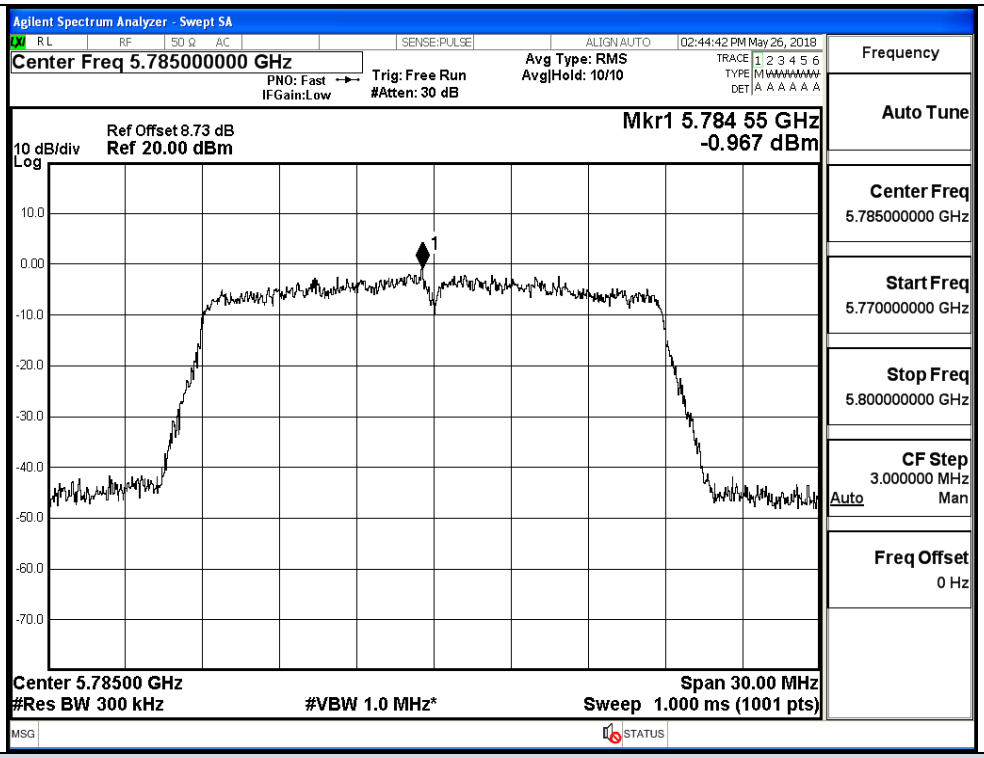
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



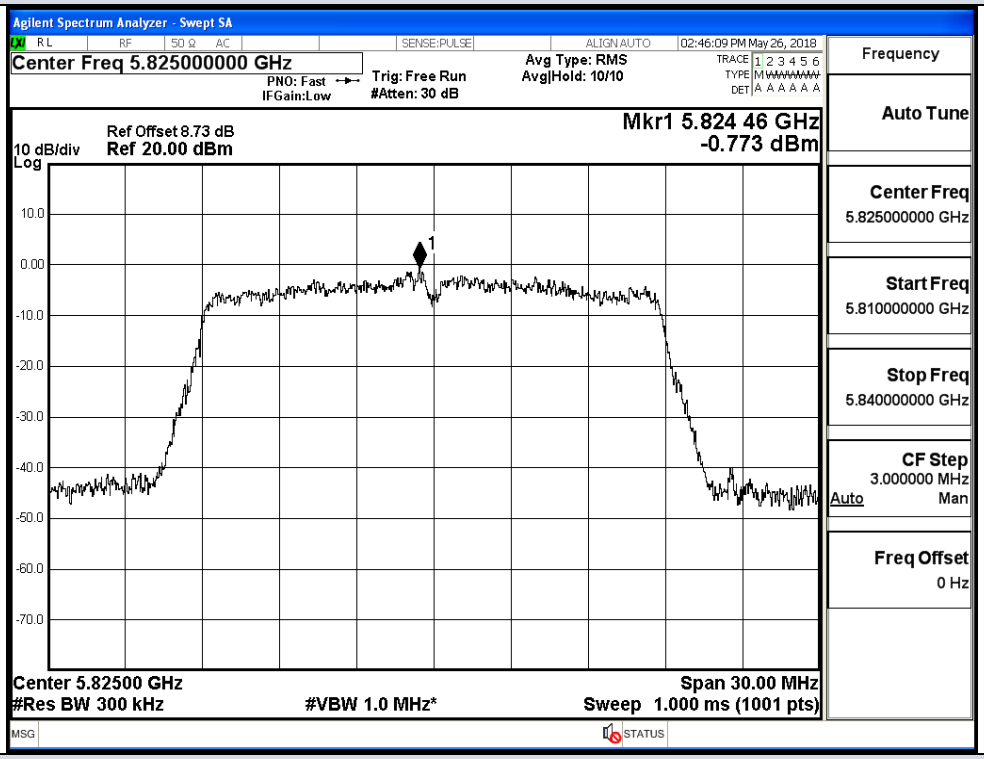
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



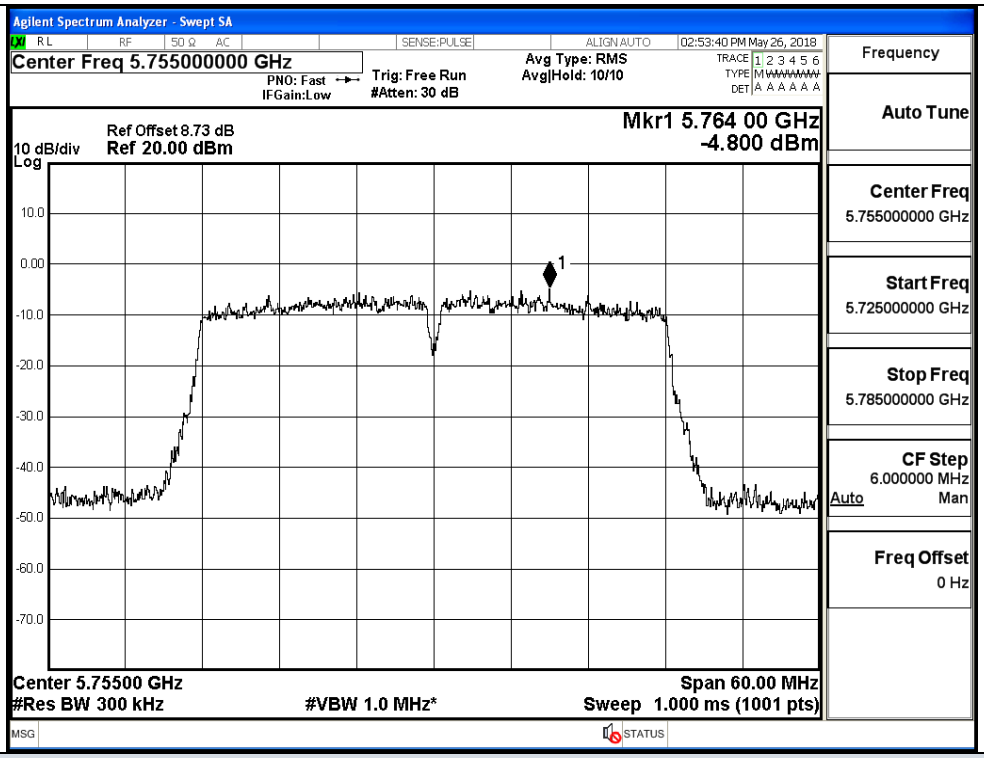
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



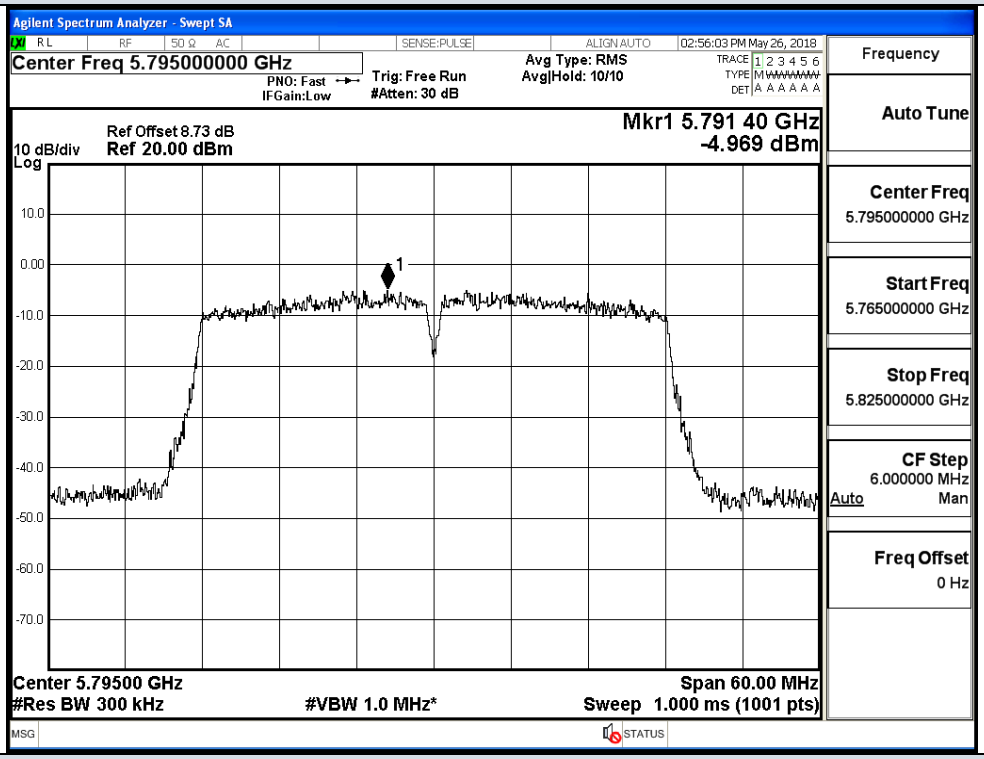
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



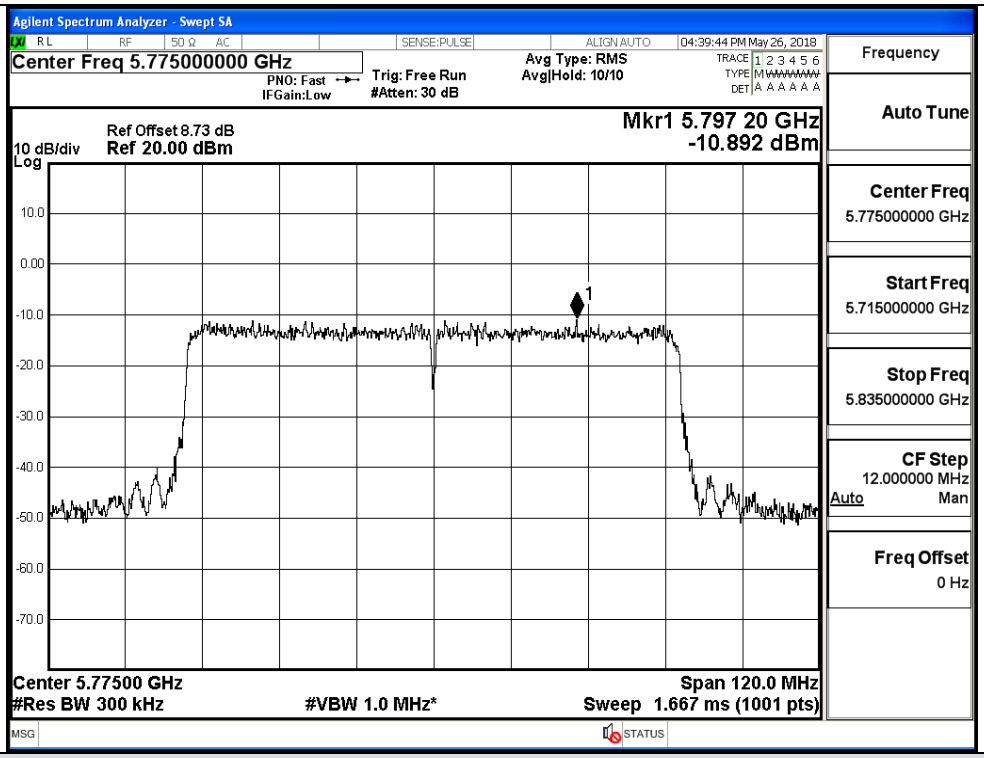
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

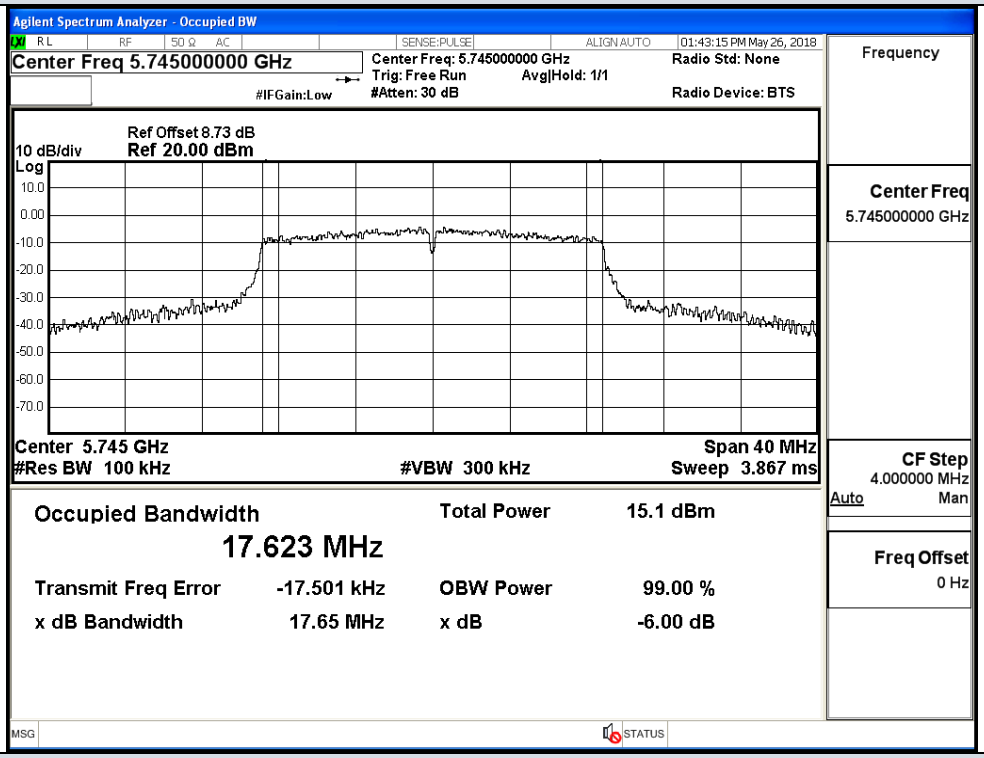


IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

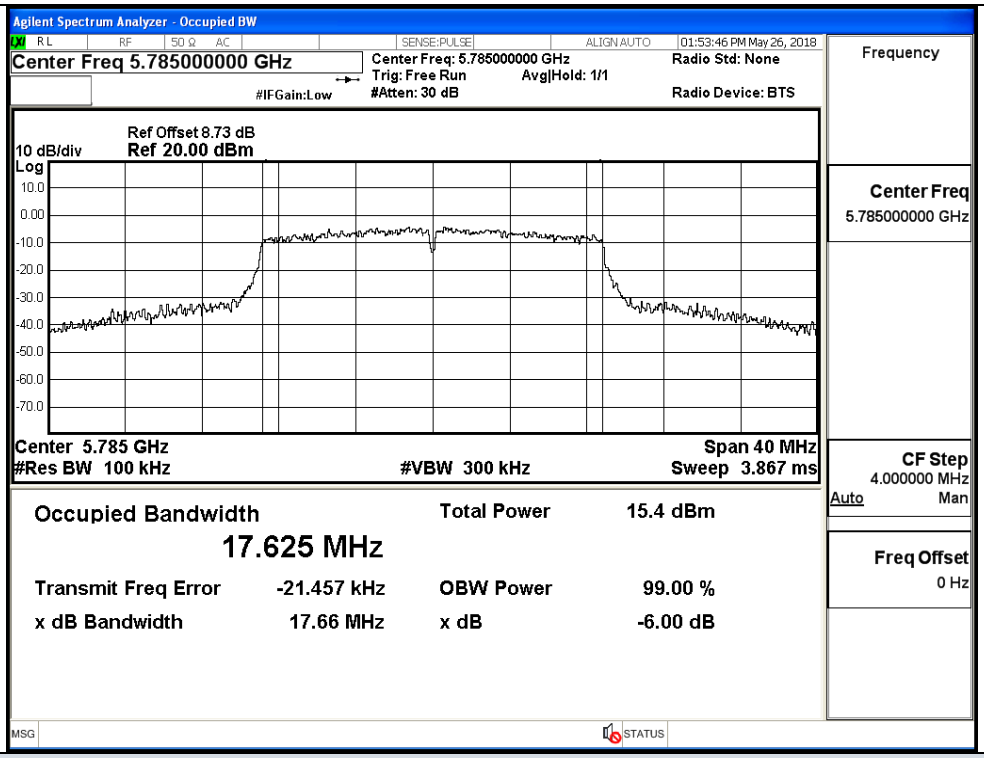
C.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
IEEE 802.11a	149	5745	17.650	>=0.5
	157	5785	17.660	
	165	5825	17.650	
IEEE 802.11n HT20	149	5745	17.640	>=0.5
	157	5785	17.630	
	165	5825	17.650	
IEEE 802.11n HT40	151	5755	36.410	>=0.5
	159	5795	36.380	
IEEE 802.11ac VHT20	149	5745	17.630	>=0.5
	157	5785	17.330	
	165	5825	17.700	
IEEE 802.11ac VHT40	151	5755	36.360	>=0.5
	159	5795	36.360	
IEEE 802.11ac VHT80	155	5775	76.060	>=0.5

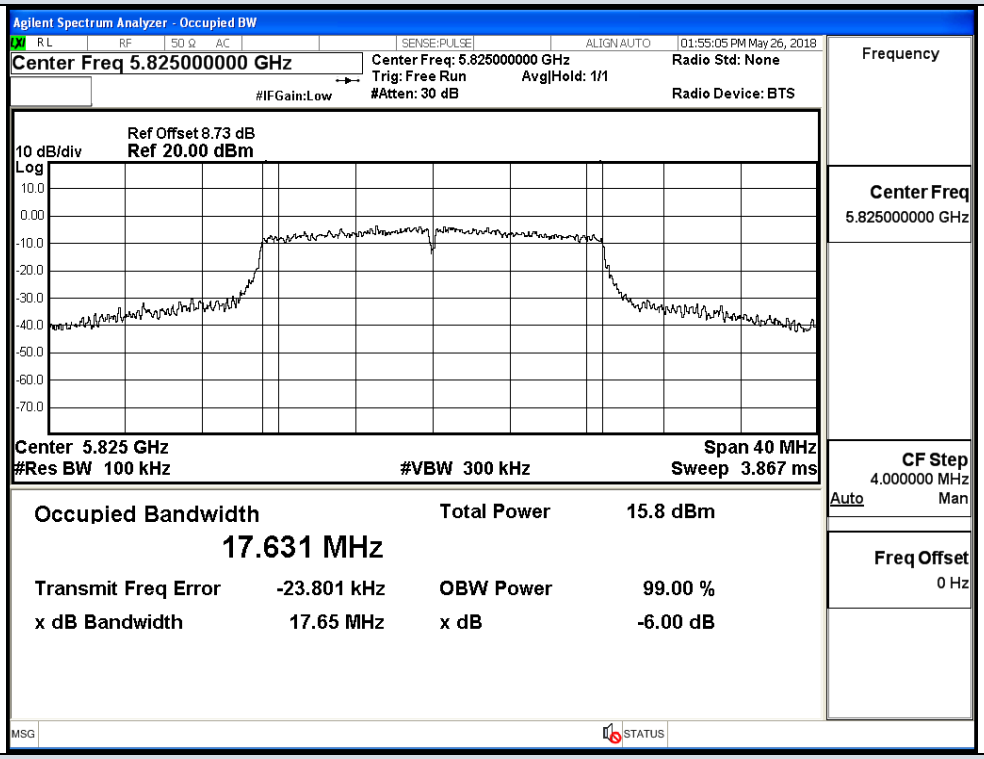
6dB Bandwidth



IEEE 802.11a / Channel 149 / 5745 MHz

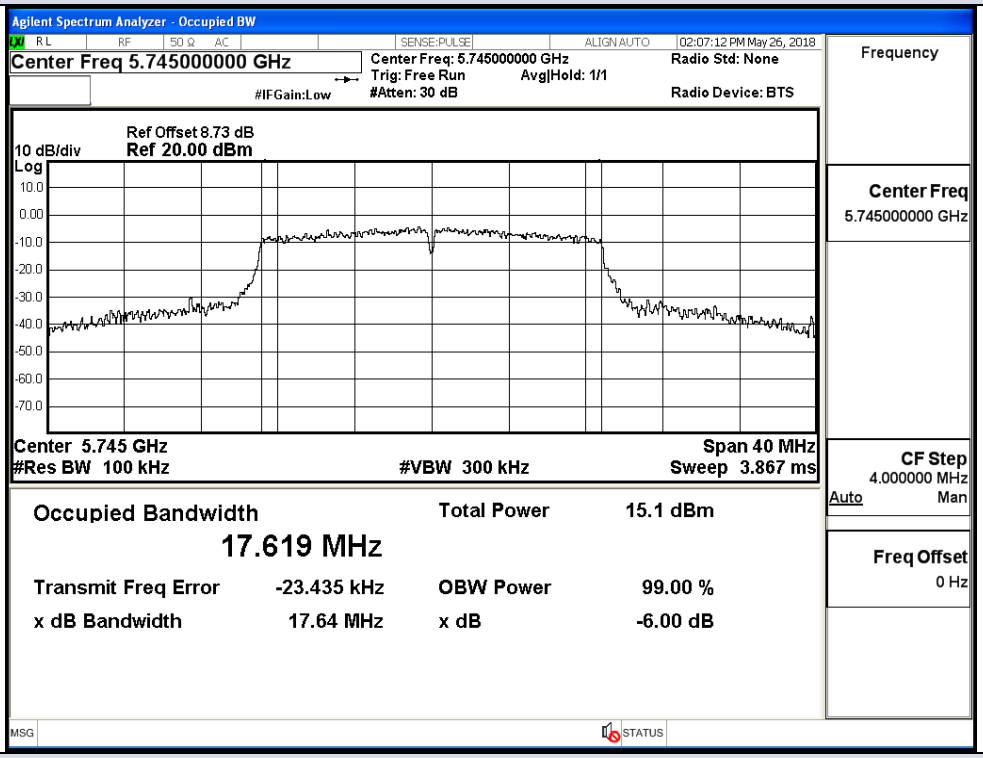


IEEE 802.11a / Channel 157 / 5785 MHz

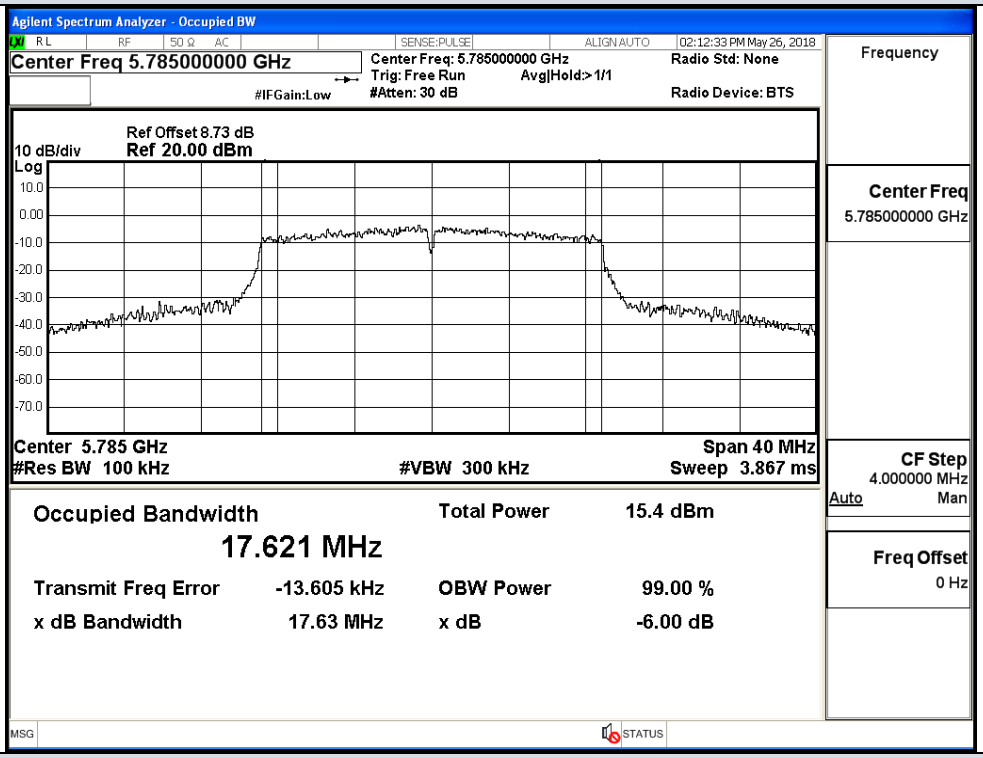


IEEE 802.11a / Channel 165 / 5825 MHz

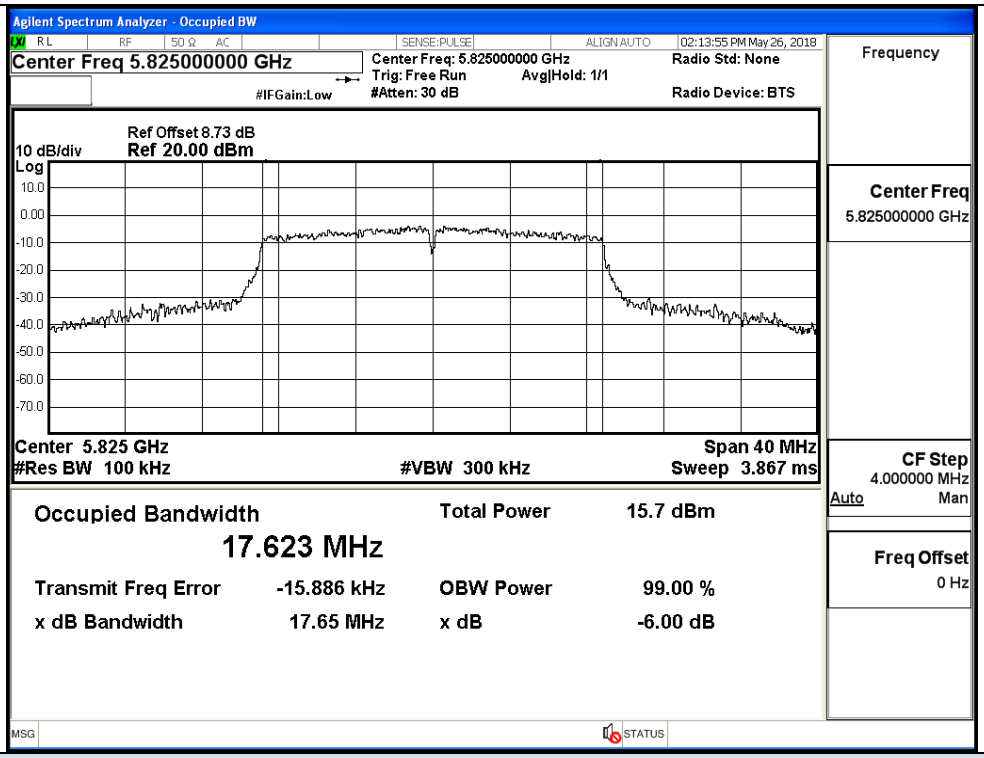
6dB Bandwidth



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

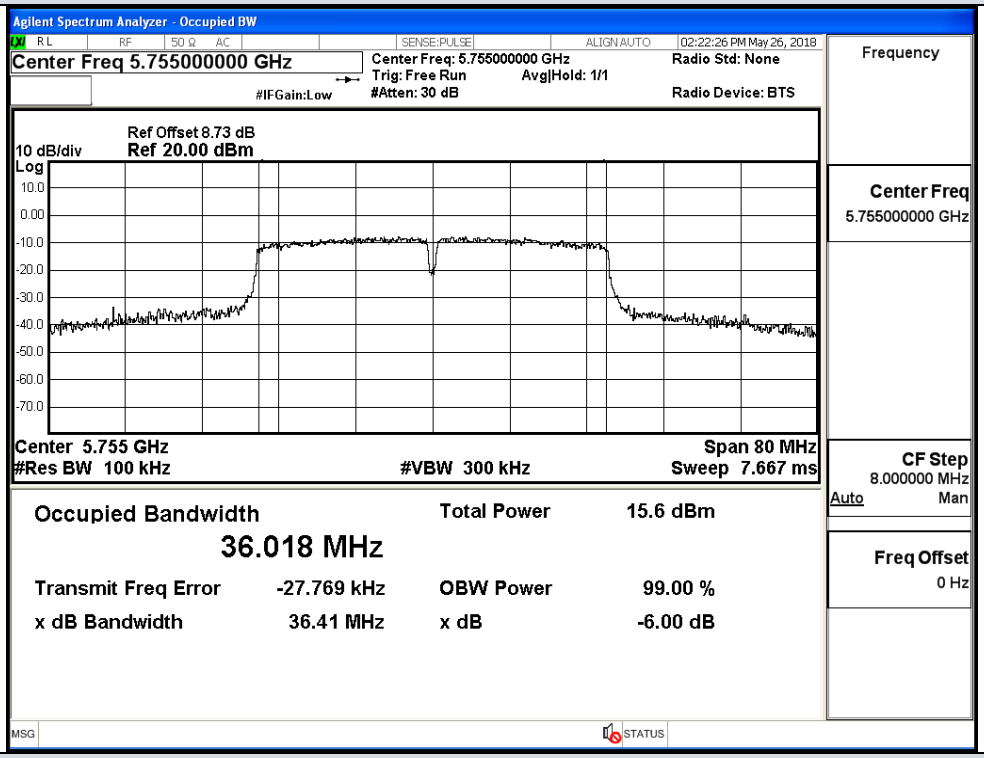


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

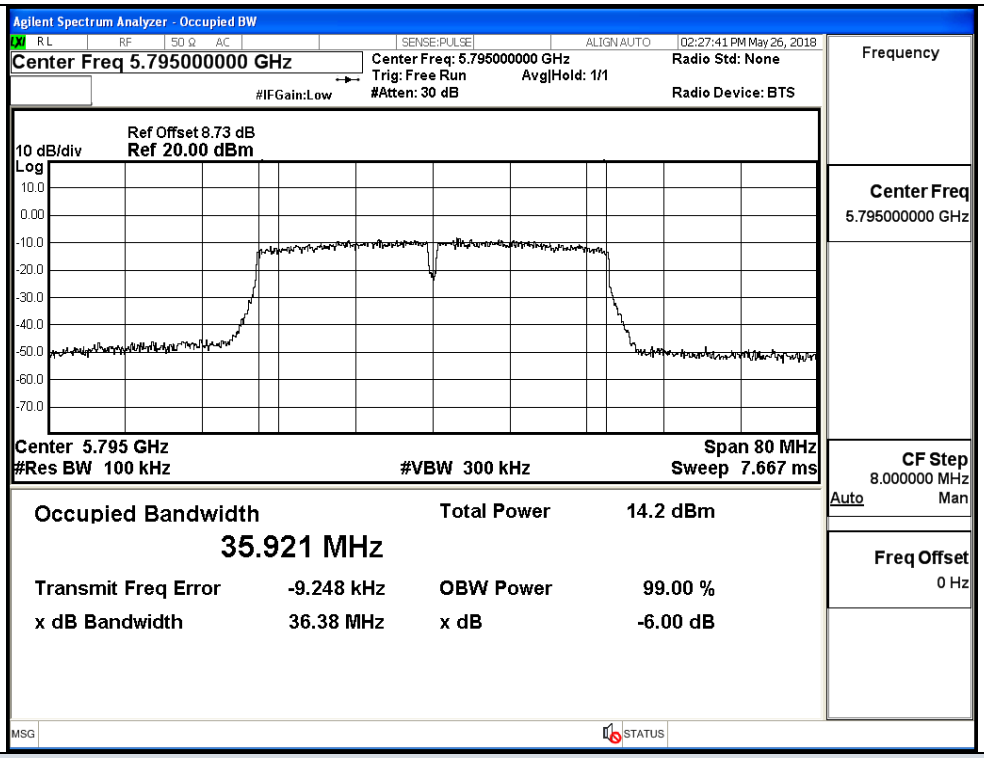


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

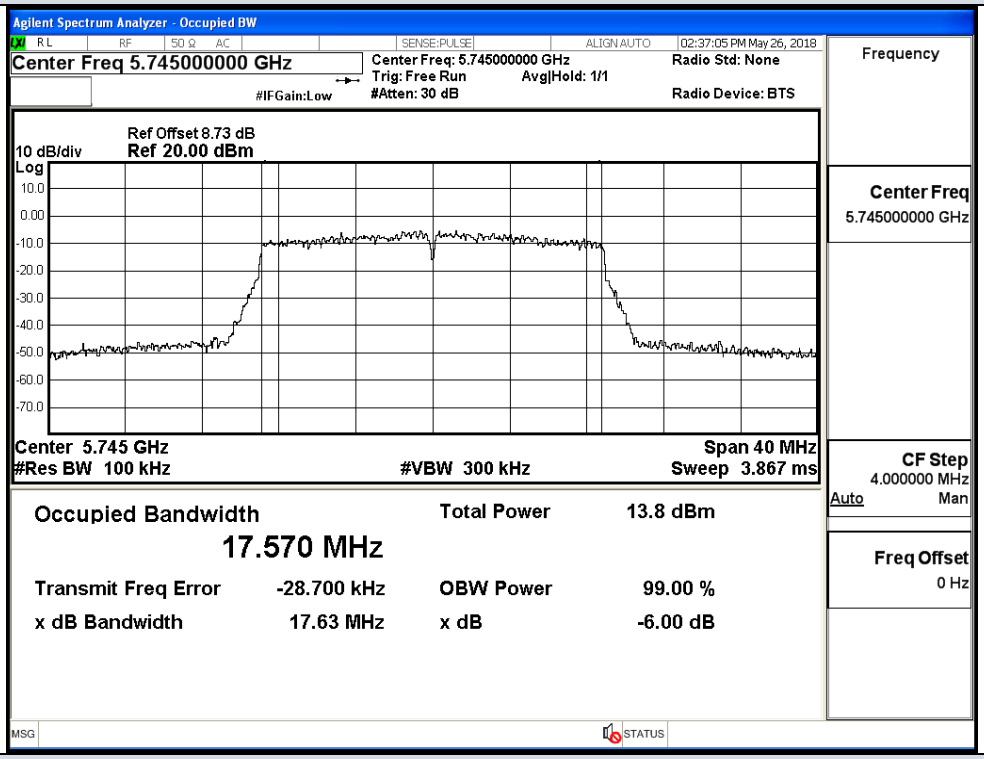
6dB Bandwidth



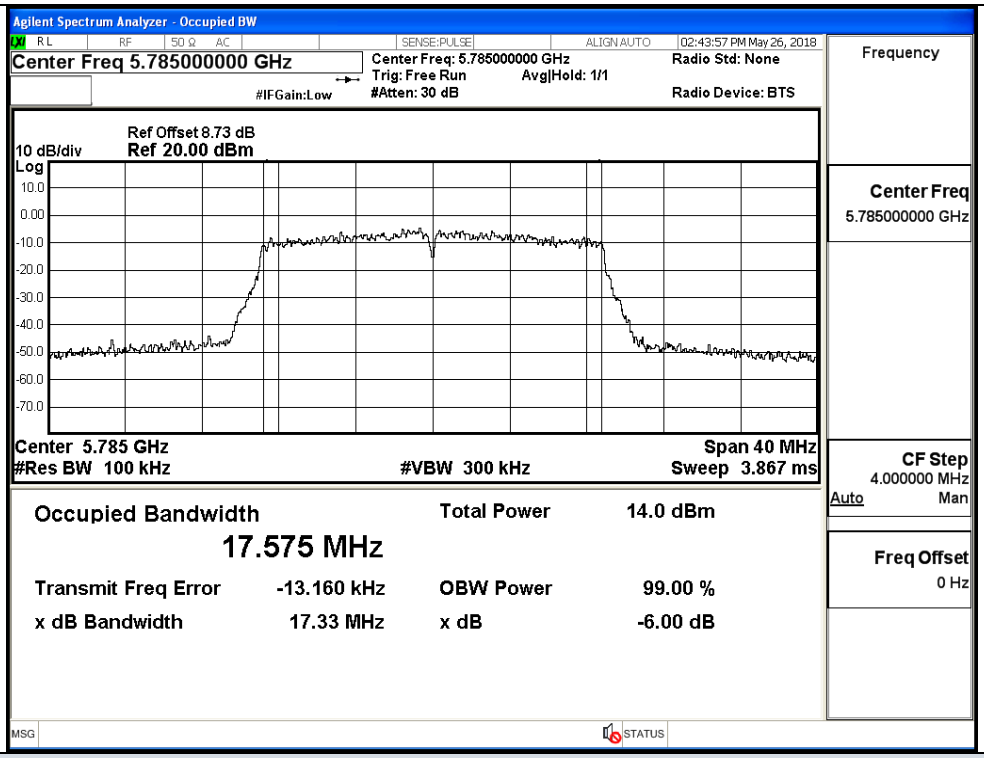
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



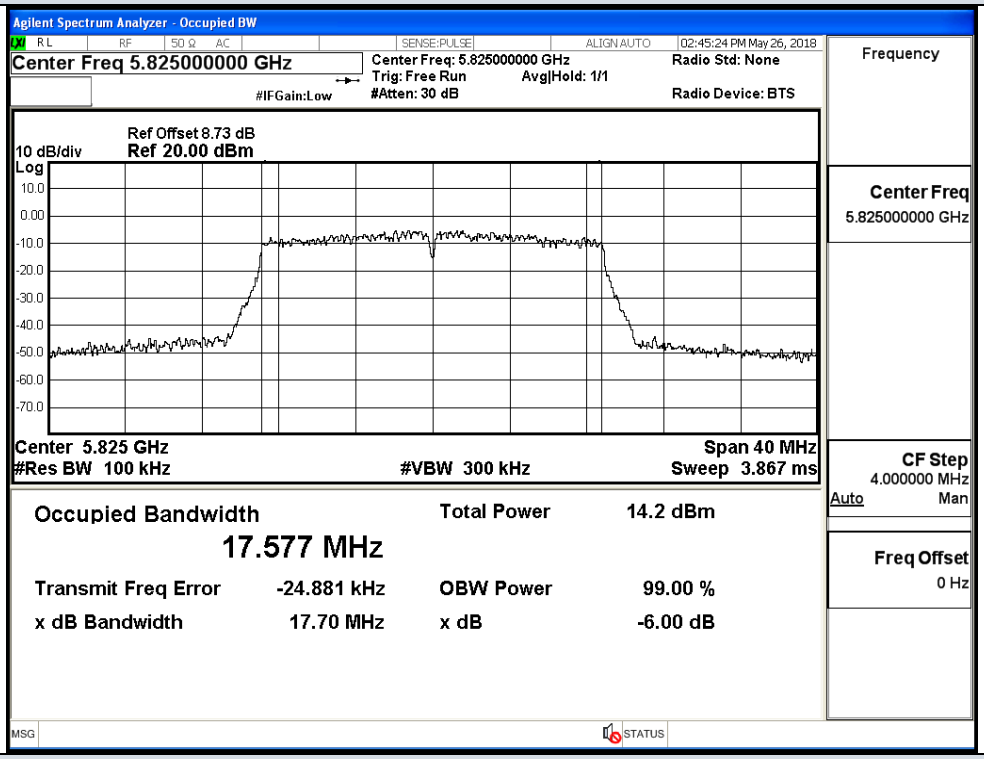
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



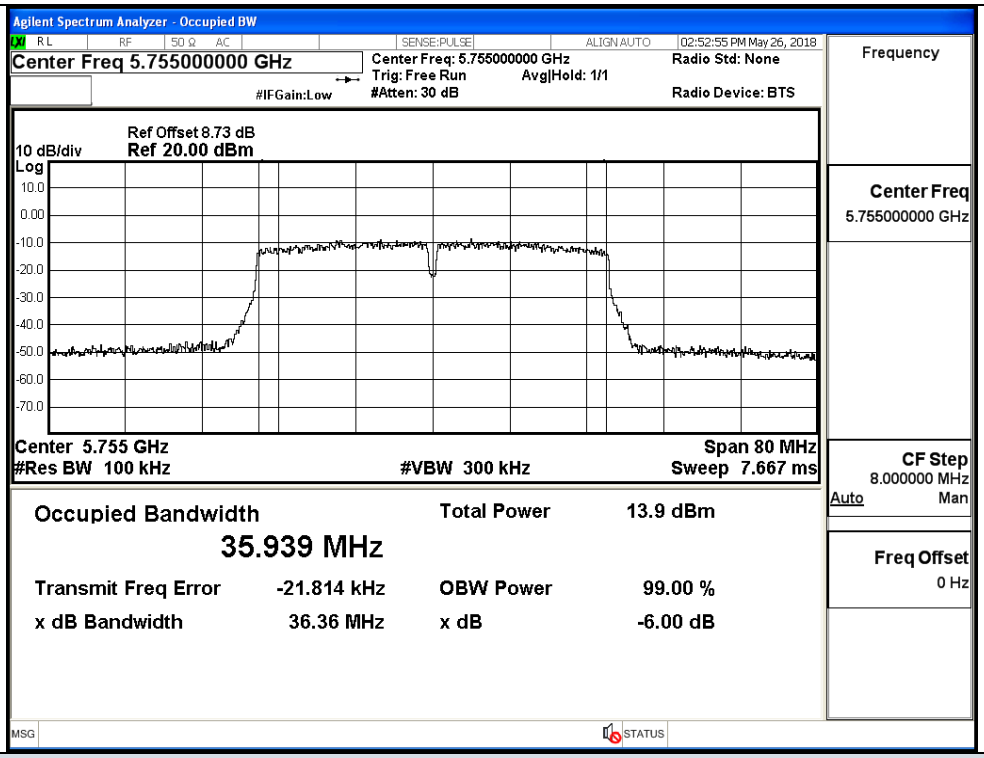
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



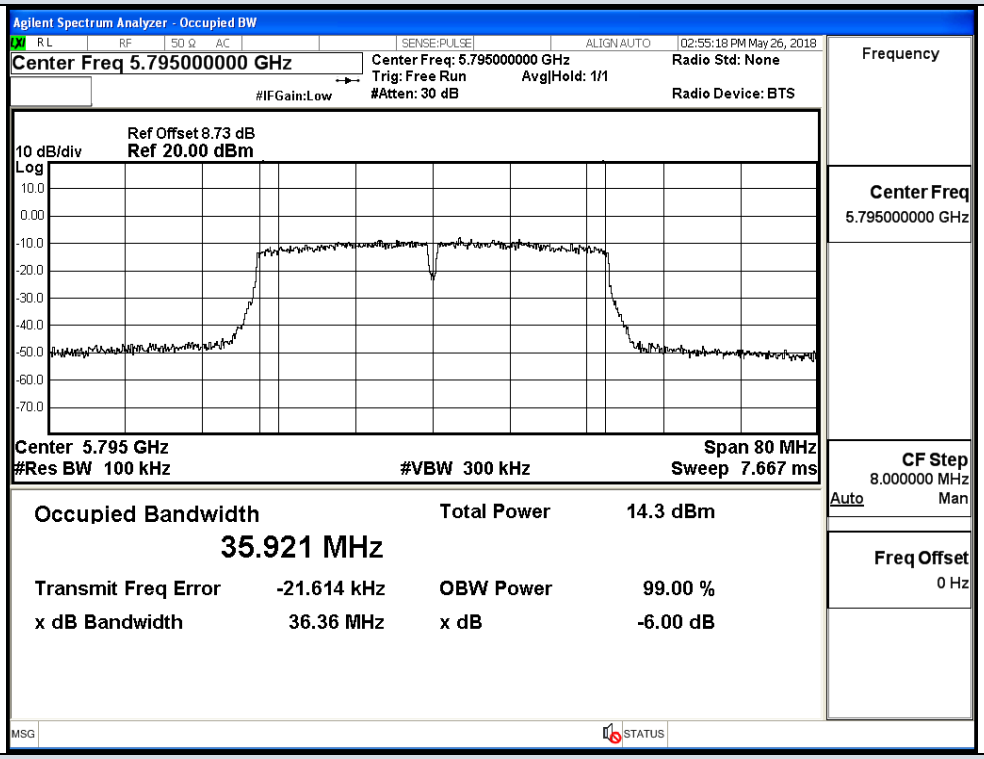
IEEE 802.11ac VHT20 / Channel 157/ 5785 MHz



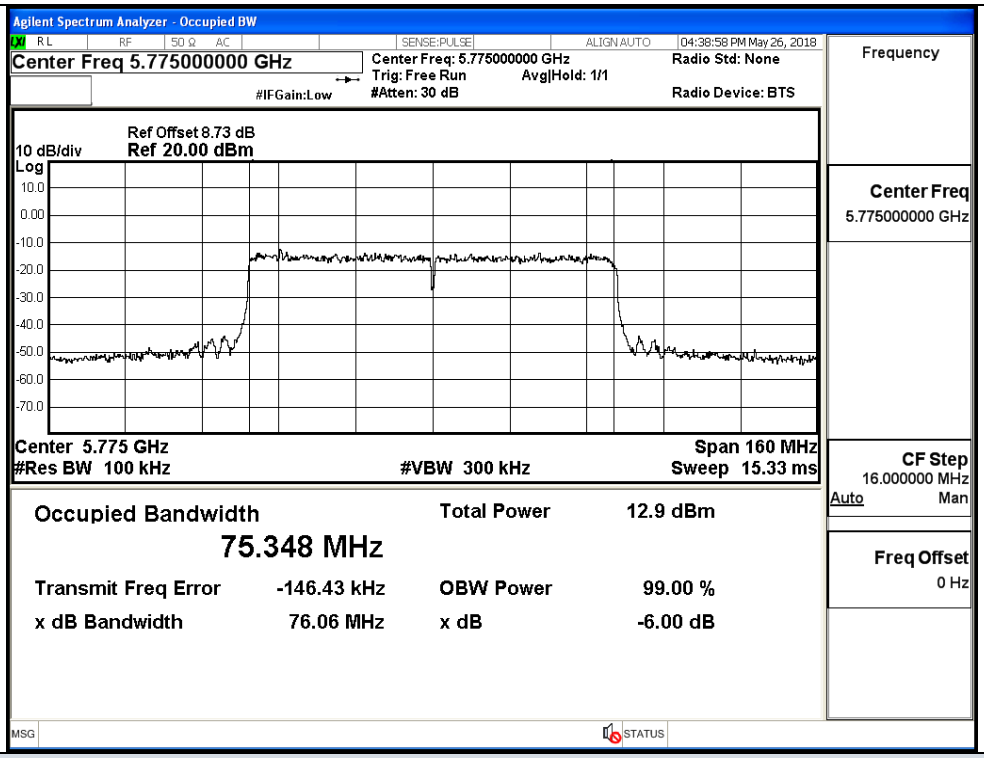
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

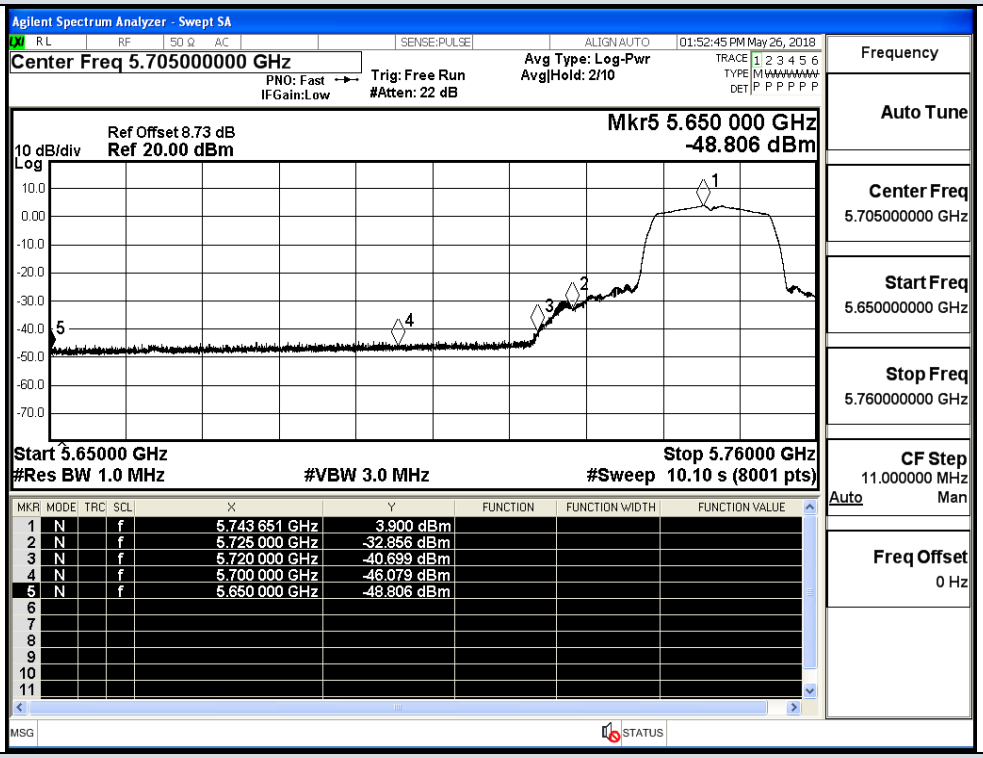


IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

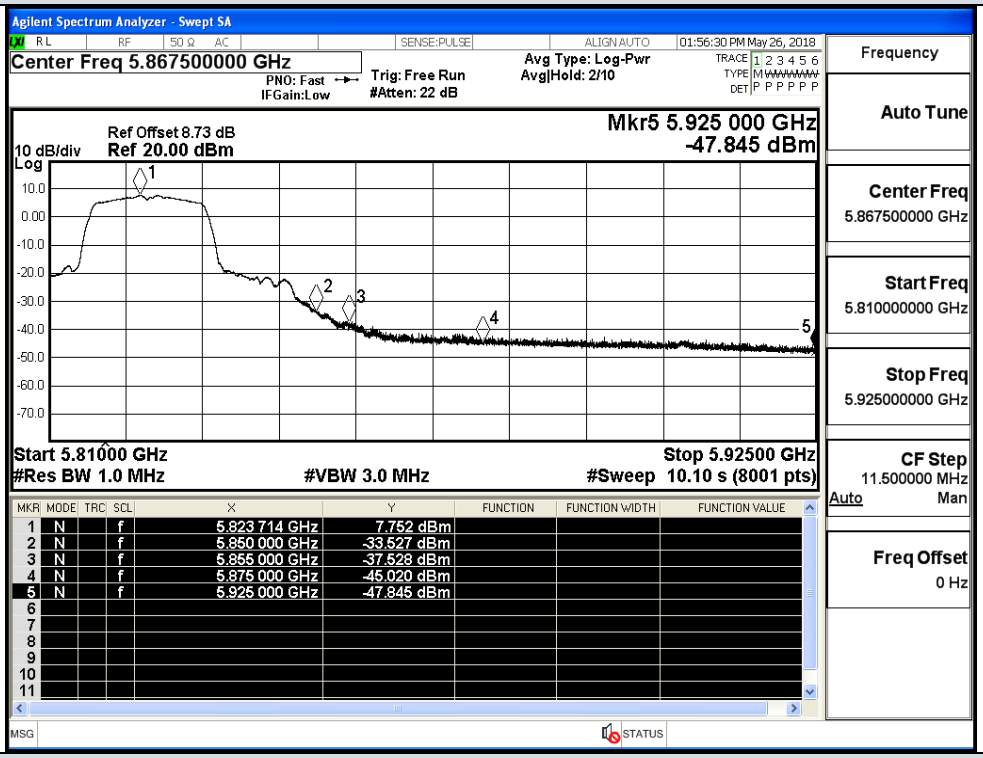
C.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
IEEE 802.11a	149	5650.000	-48.806	5.000	-43.806	Peak	-27.00
		5700.000	-46.079	5.000	-41.079	Peak	10.00
		5720.000	-40.699	5.000	-35.699	Peak	15.60
		5725.000	-32.856	5.000	-27.856	Peak	27.00
	165	5850.000	-33.527	5.000	-28.527	Peak	27.00
		5855.000	-37.528	5.000	-32.528	Peak	15.60
		5875.000	-45.020	5.000	-40.020	Peak	10.00
		5925.000	-47.845	5.000	-42.845	Peak	-27.00
IEEE 802.11n HT20	149	5650.000	-47.104	5.000	-42.104	Peak	-27.00
		5700.000	-46.895	5.000	-41.895	Peak	10.00
		5720.000	-41.673	5.000	-36.673	Peak	15.60
		5725.000	-32.482	5.000	-27.482	Peak	27.00
	165	5850.000	-33.872	5.000	-28.872	Peak	27.00
		5855.000	-41.029	5.000	-36.029	Peak	15.60
		5875.000	-44.554	5.000	-39.554	Peak	10.00
		5925.000	-45.873	5.000	-40.873	Peak	-27.00
IEEE 802.11n HT40	151	5650.000	-49.012	5.000	-44.012	Peak	-27.00
		5700.000	-48.293	5.000	-43.293	Peak	10.00
		5720.000	-42.975	5.000	-37.975	Peak	15.60
		5725.000	-40.223	5.000	-35.223	Peak	27.00
	159	5850.000	-45.535	5.000	-40.535	Peak	27.00
		5855.000	-45.825	5.000	-40.825	Peak	15.60
		5875.000	-46.532	5.000	-41.532	Peak	10.00
		5925.000	-49.242	5.000	-44.242	Peak	-27.00
IEEE 802.11ac VHT20	149	5650.000	-48.737	5.000	-43.737	Peak	-27.00
		5700.000	-45.525	5.000	-40.525	Peak	10.00
		5720.000	-39.671	5.000	-34.671	Peak	15.60
		5725.000	-38.138	5.000	-33.138	Peak	27.00
	165	5850.000	-40.362	5.000	-35.362	Peak	27.00
		5855.000	-45.032	5.000	-40.032	Peak	15.60
		5875.000	-45.832	5.000	-40.832	Peak	10.00
		5925.000	-46.905	5.000	-41.905	Peak	-27.00
IEEE 802.11ac VHT40	149	5650.000	-48.024	5.000	-43.024	Peak	-27.00
		5700.000	-45.274	5.000	-40.274	Peak	10.00
		5720.000	-38.844	5.000	-33.844	Peak	15.60
		5725.000	-38.174	5.000	-33.174	Peak	27.00
	165	5850.000	-44.147	5.000	-39.147	Peak	27.00
		5855.000	-42.325	5.000	-37.325	Peak	15.60
		5875.000	-47.807	5.000	-42.807	Peak	10.00
		5925.000	-49.082	5.000	-44.082	Peak	-27.00
IEEE 802.11ac VHT80	155	5650.000	-50.488	5.000	-45.488	Peak	-27.00
		5700.000	-45.843	5.000	-40.843	Peak	10.00
		5720.000	-44.149	5.000	-39.149	Peak	15.60
		5725.000	-38.785	5.000	-33.785	Peak	27.00
		5850.000	-45.613	5.000	-40.613	Peak	27.00
		5855.000	-45.615	5.000	-40.615	Peak	15.60
		5875.000	-47.322	5.000	-42.322	Peak	10.00
		5925.000	-49.497	5.000	-44.497	Peak	-27.00

Undesirable Emissions Measurement

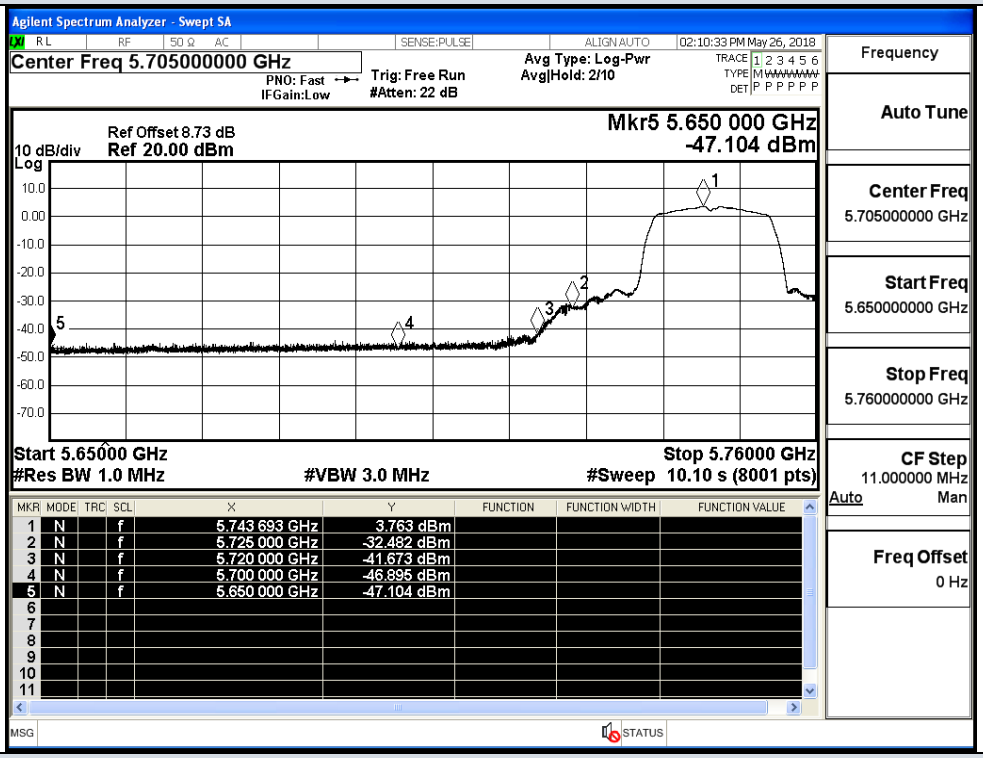


IEEE 802.11a / Channel 149 / 5745 MHz / Peak

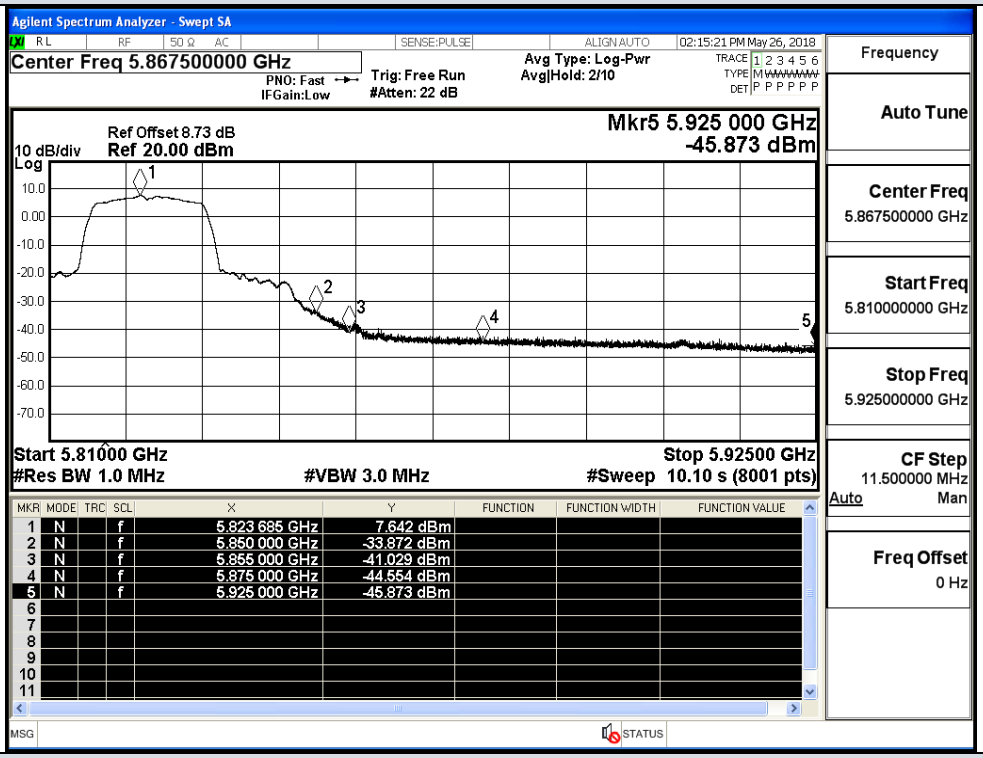


IEEE 802.11a / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

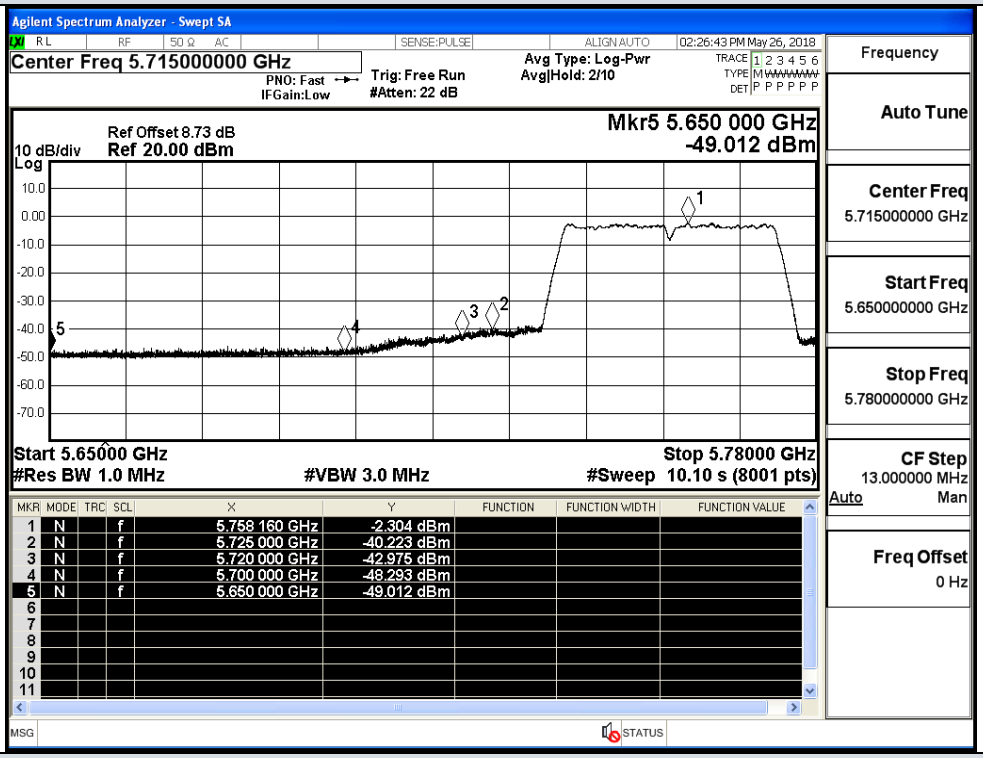


IEEE 802.11n HT20 / Channel 149 / 5745 MHz / Peak

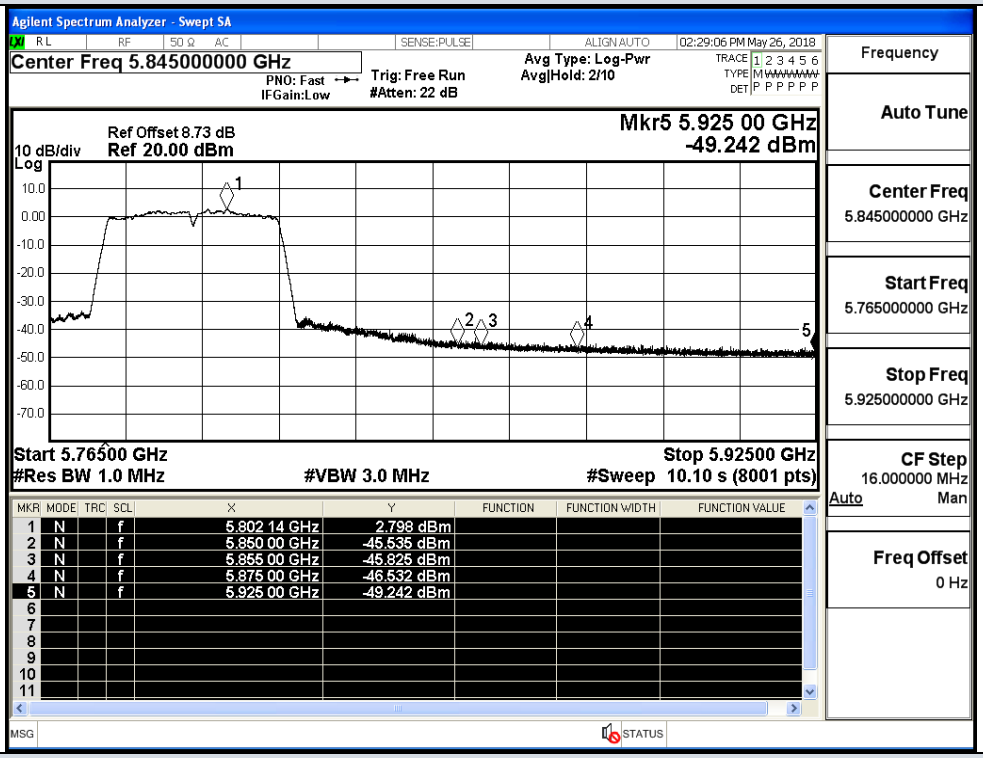


IEEE 802.11n HT20 / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

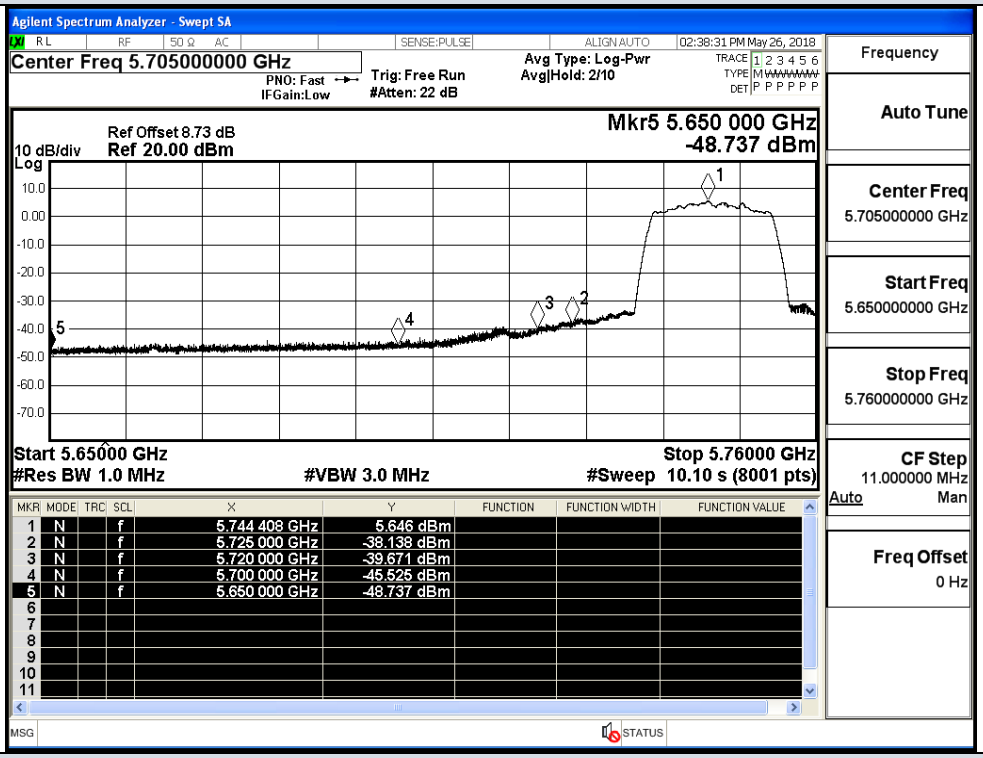


IEEE 802.11n 40 / Channel 151 / 5755 MHz / Peak

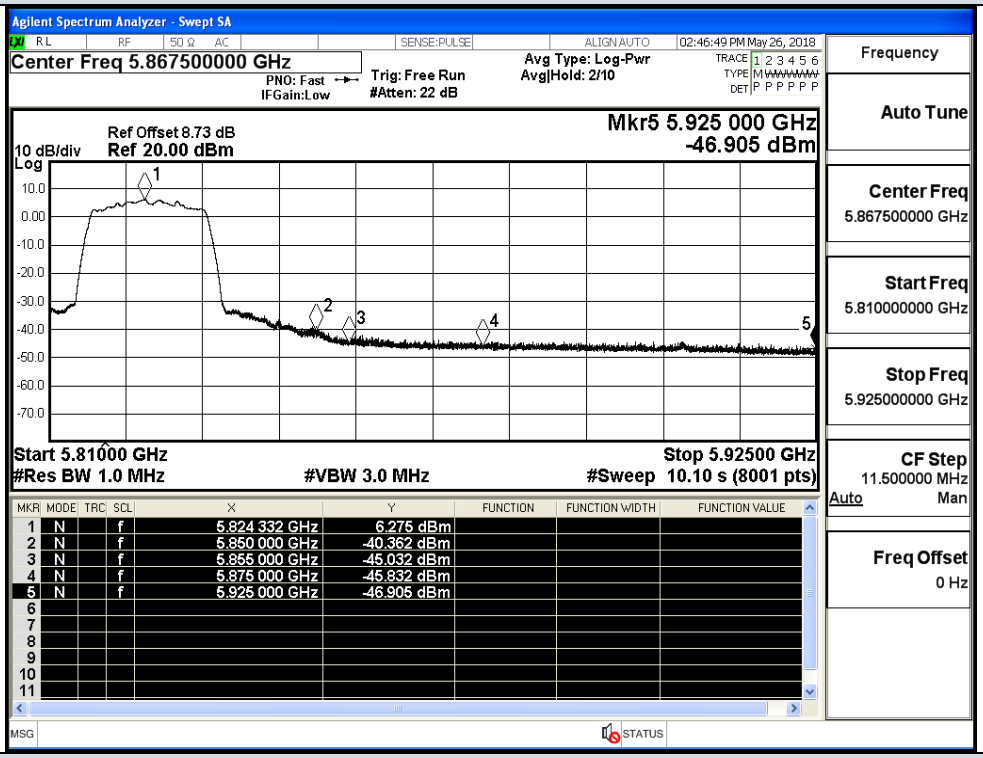


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak

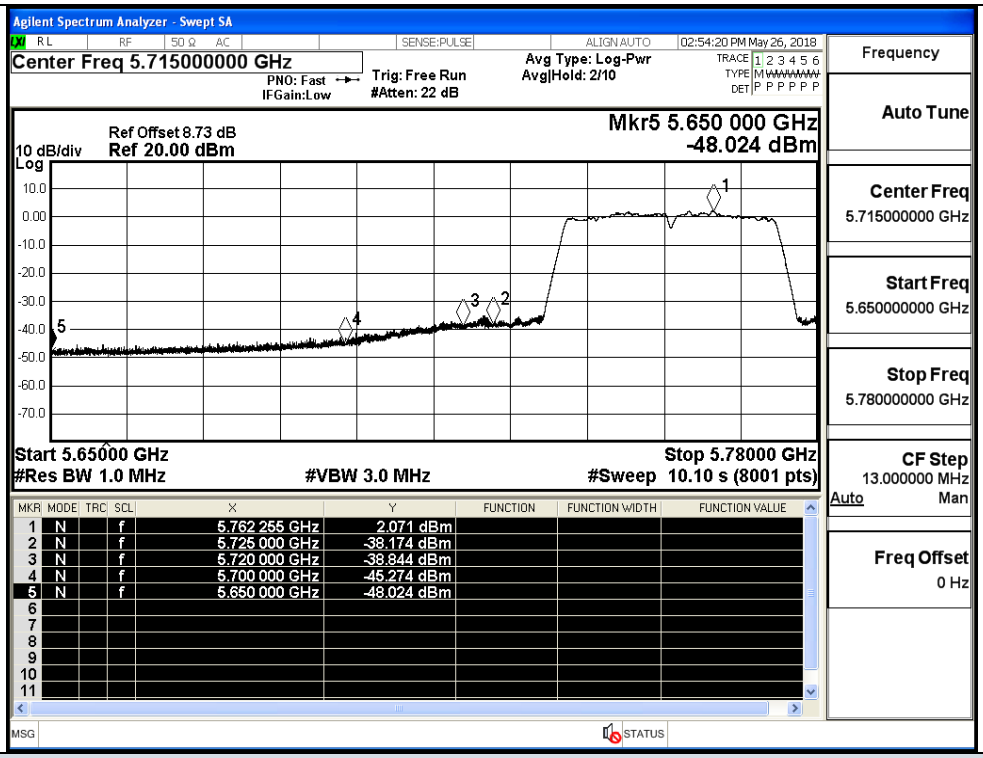
Undesirable Emissions Measurement



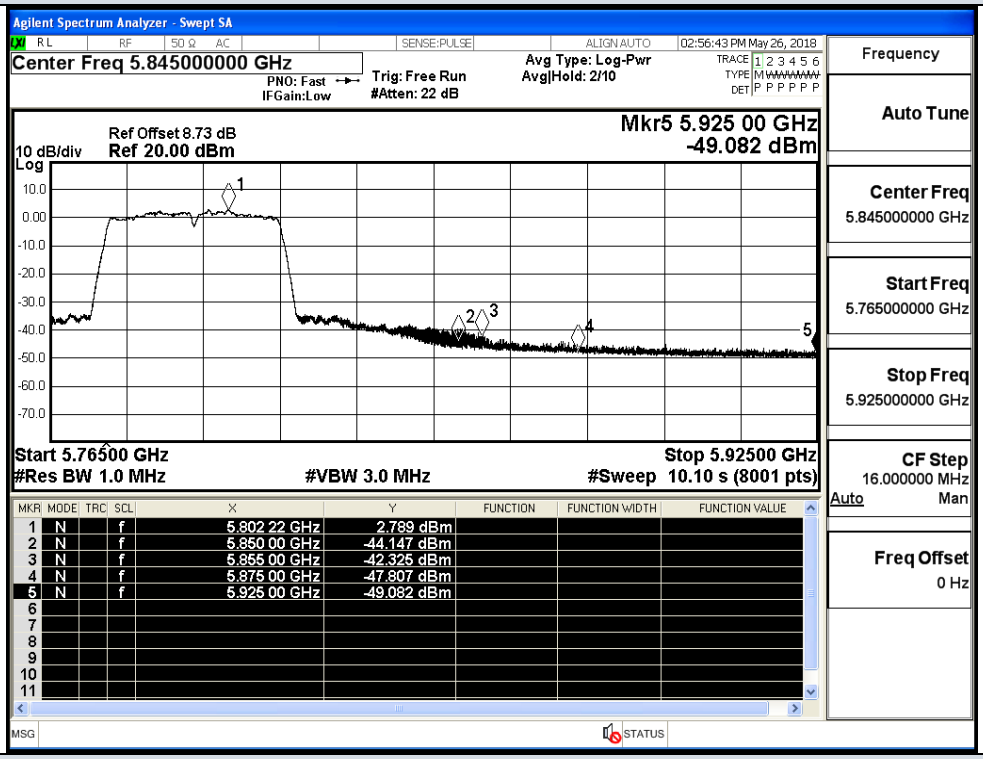
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz / Peak



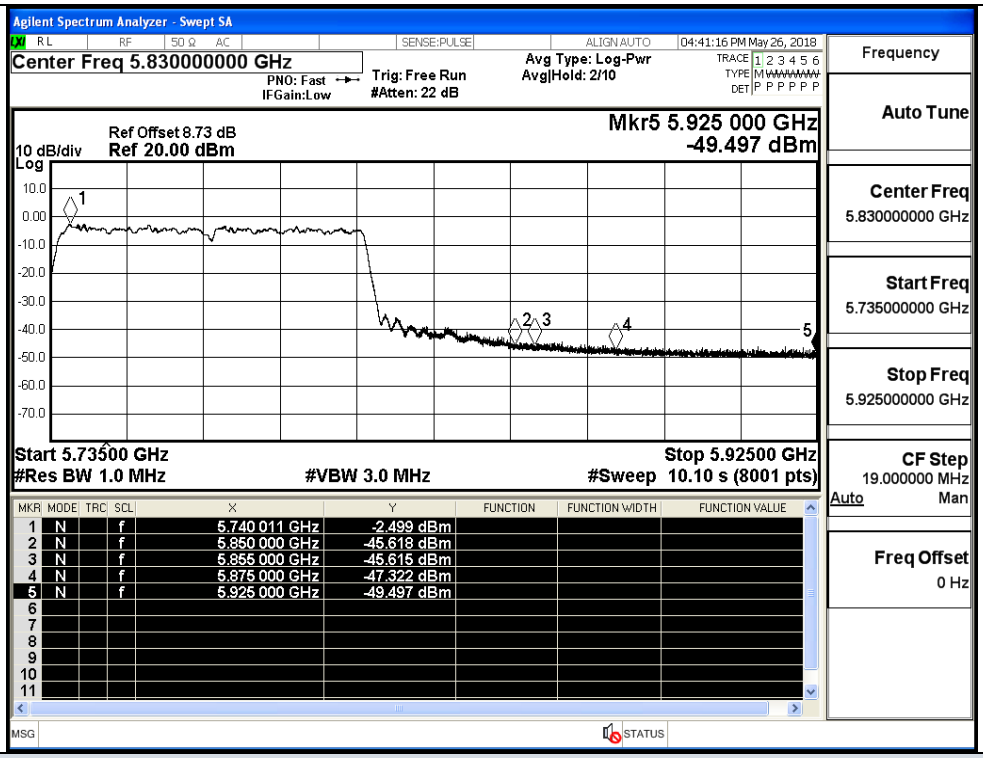
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz / Peak



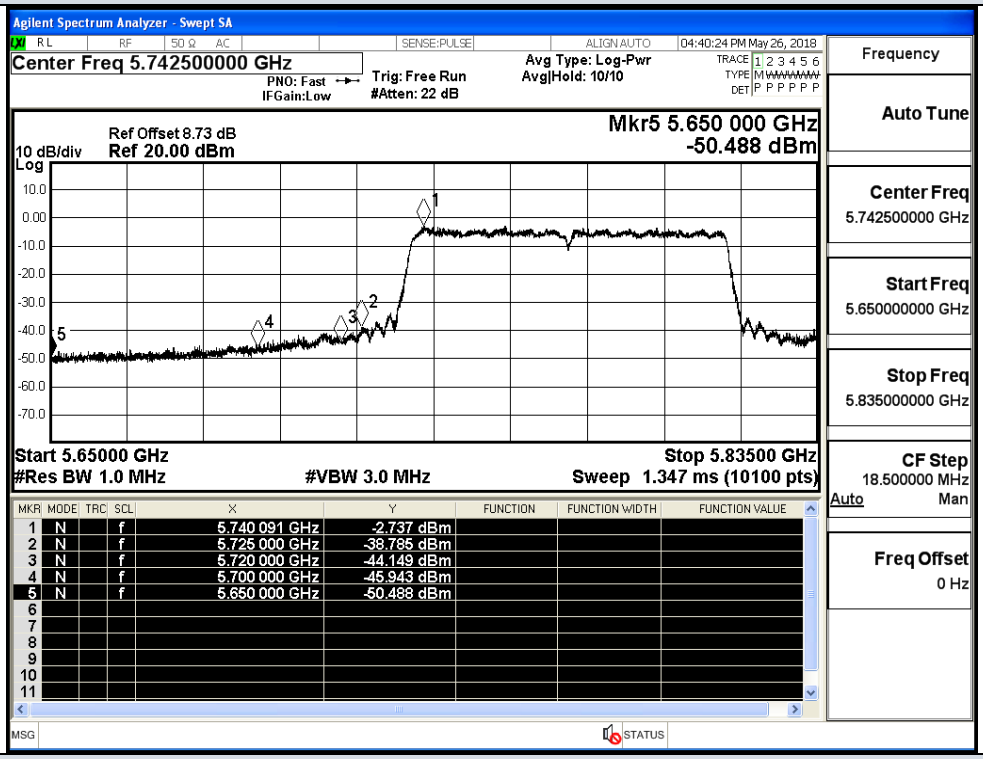
IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz / Peak



IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz / Peak