

Appendix D

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: PCSGOB1018M-Series

Trade Mark: PC SMART

Test Model: PCSGOB1018M-A

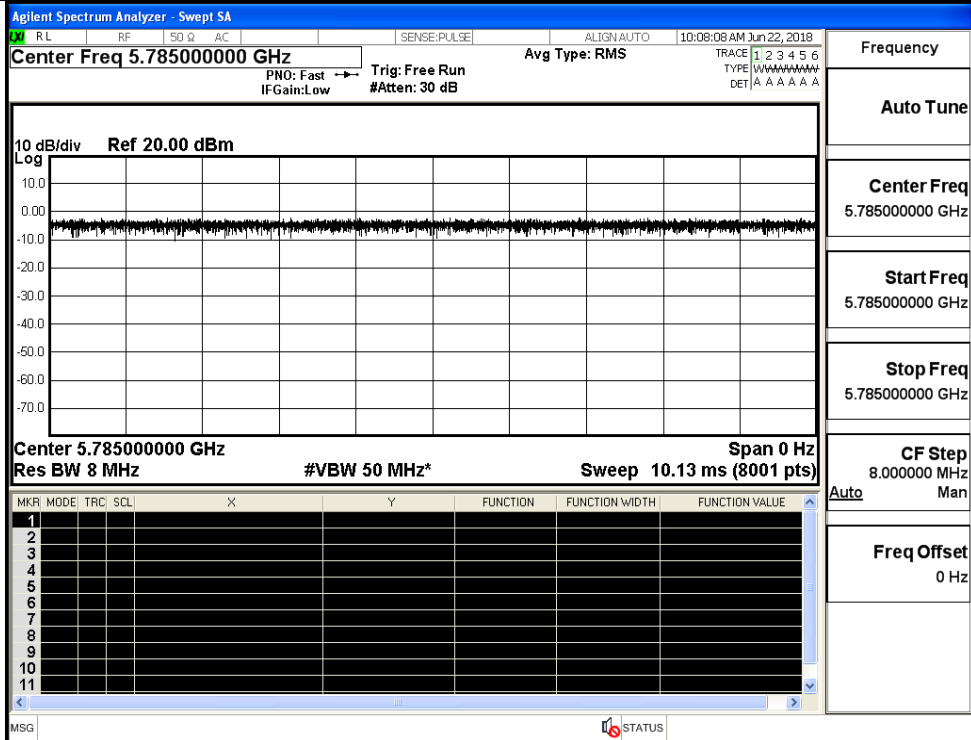
Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

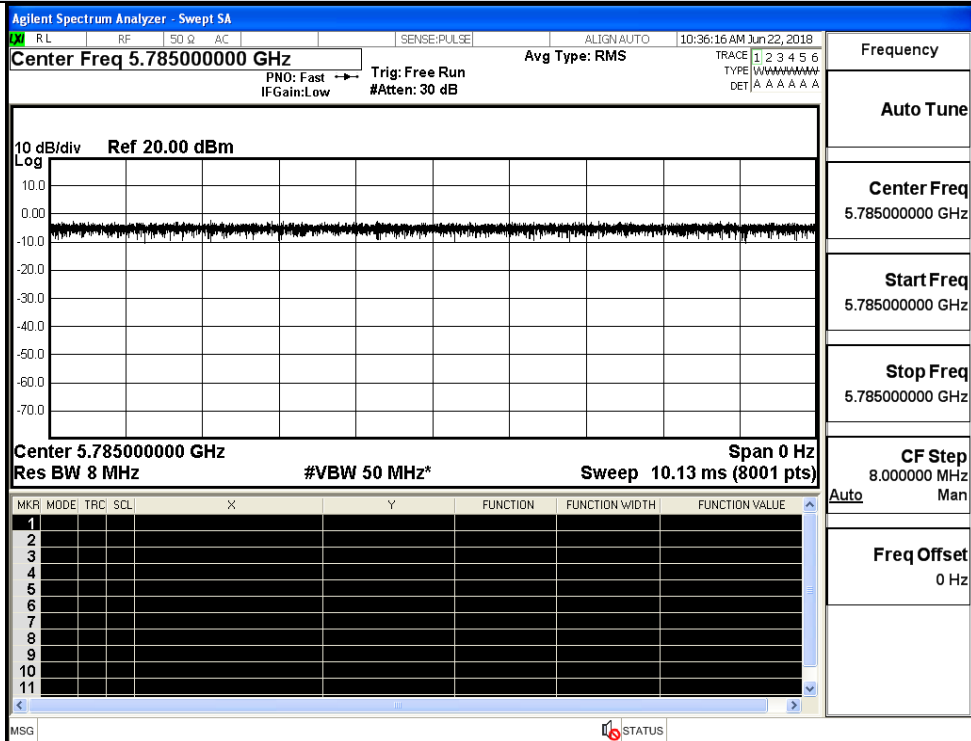
D.1 Duty Cycle

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 HT40	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

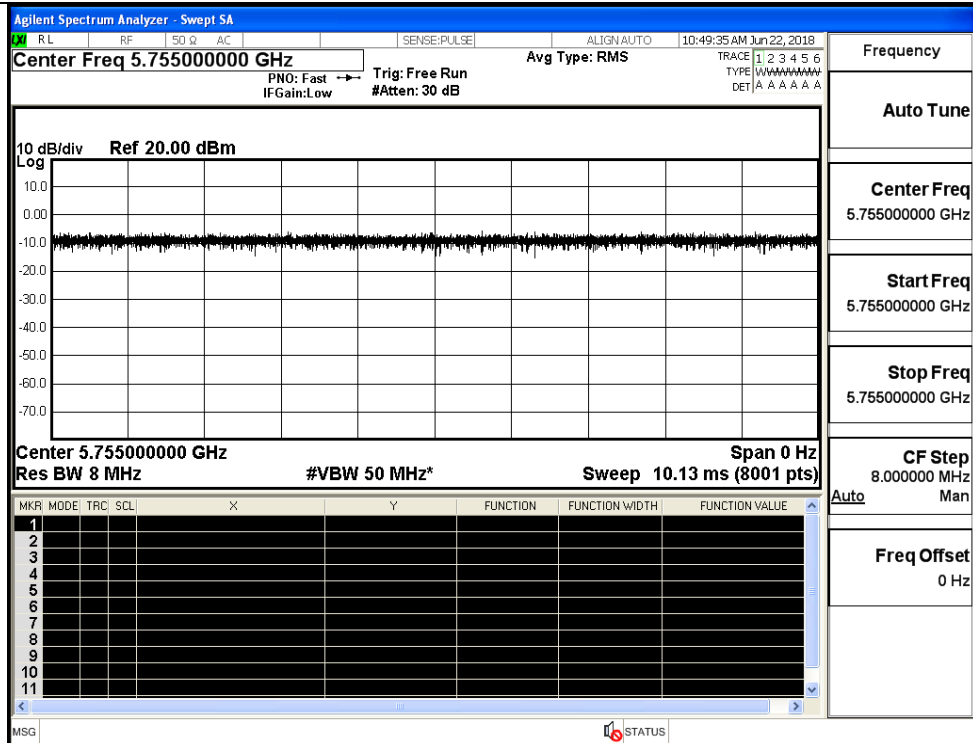
On Time and Duty Cycle



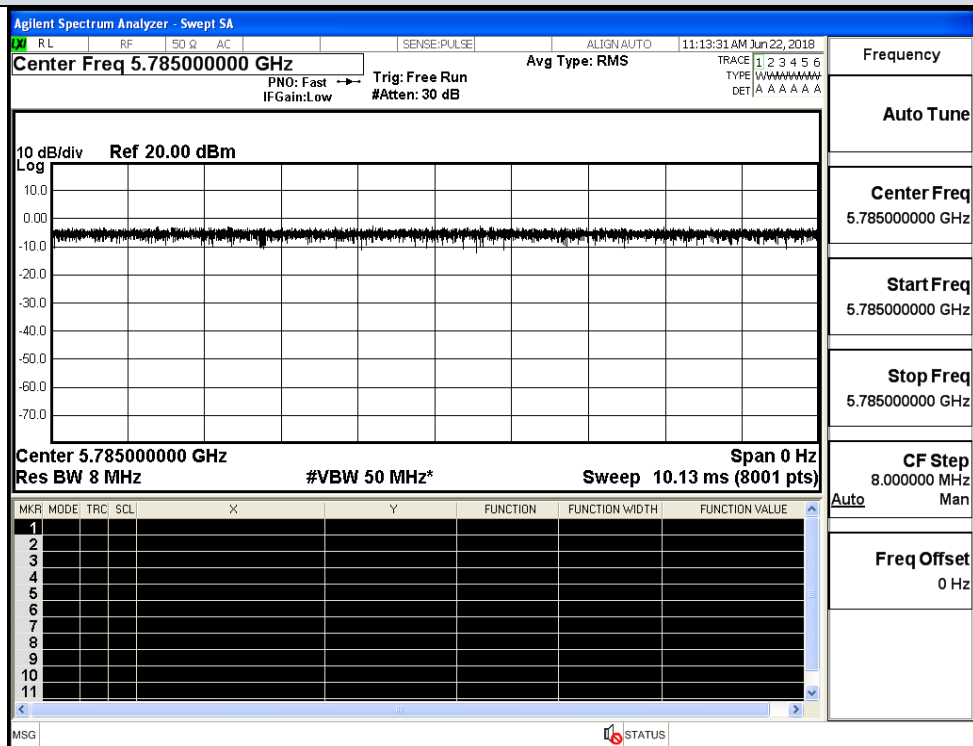
IEEE 802.11a



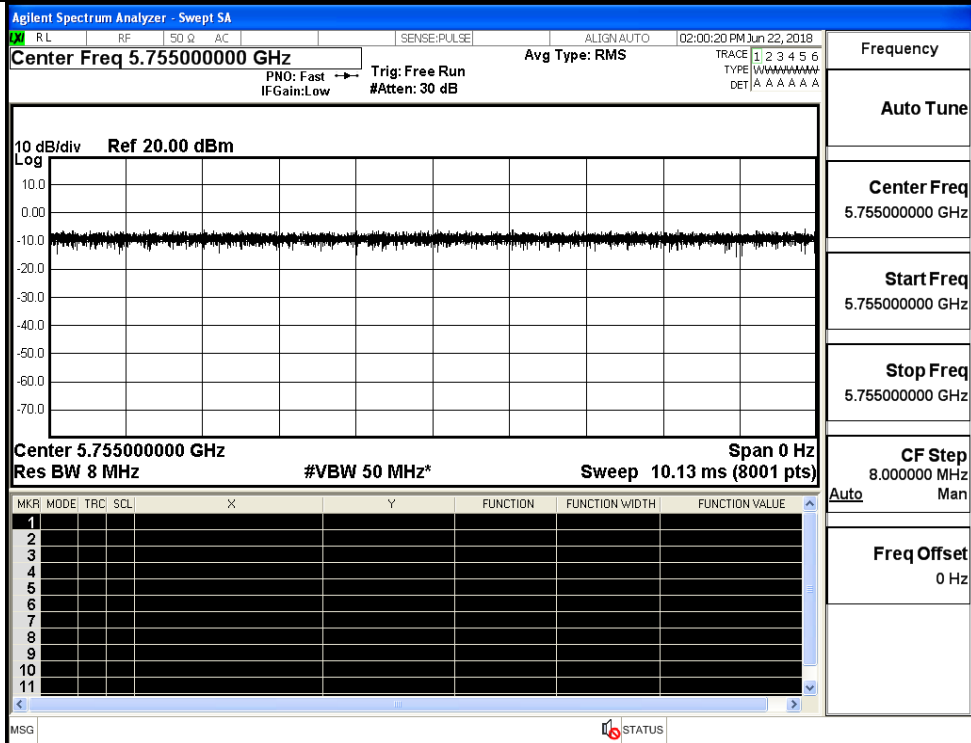
IEEE 802.11n HT20



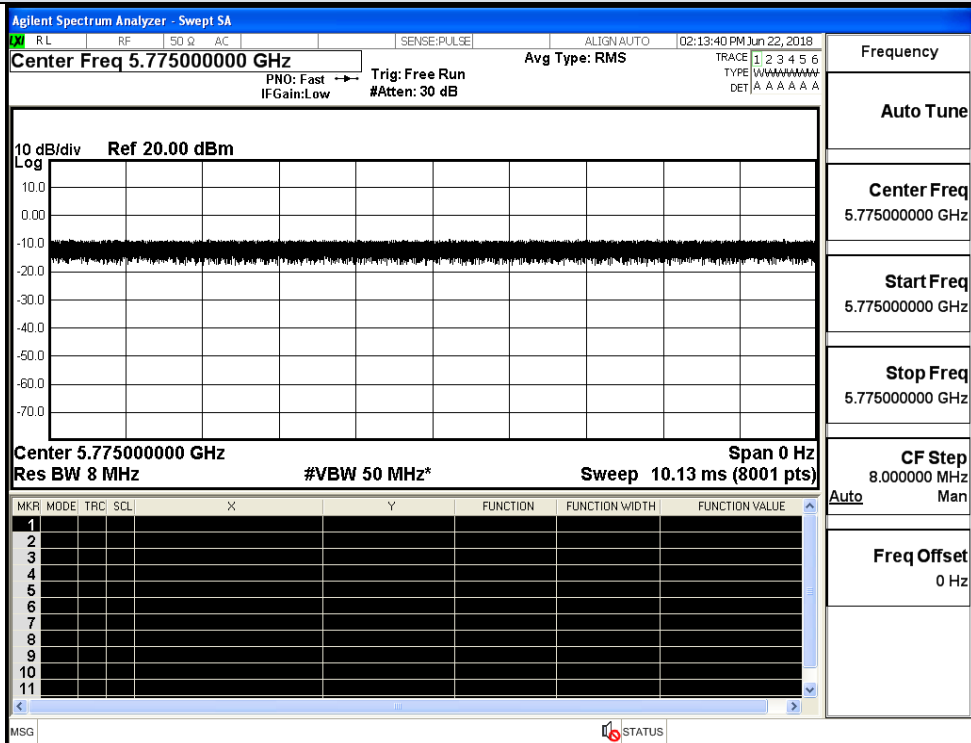
IEEE 802.11n HT40



IEEE 802.1ac VHT20



IEEE 802.11ac VHT40



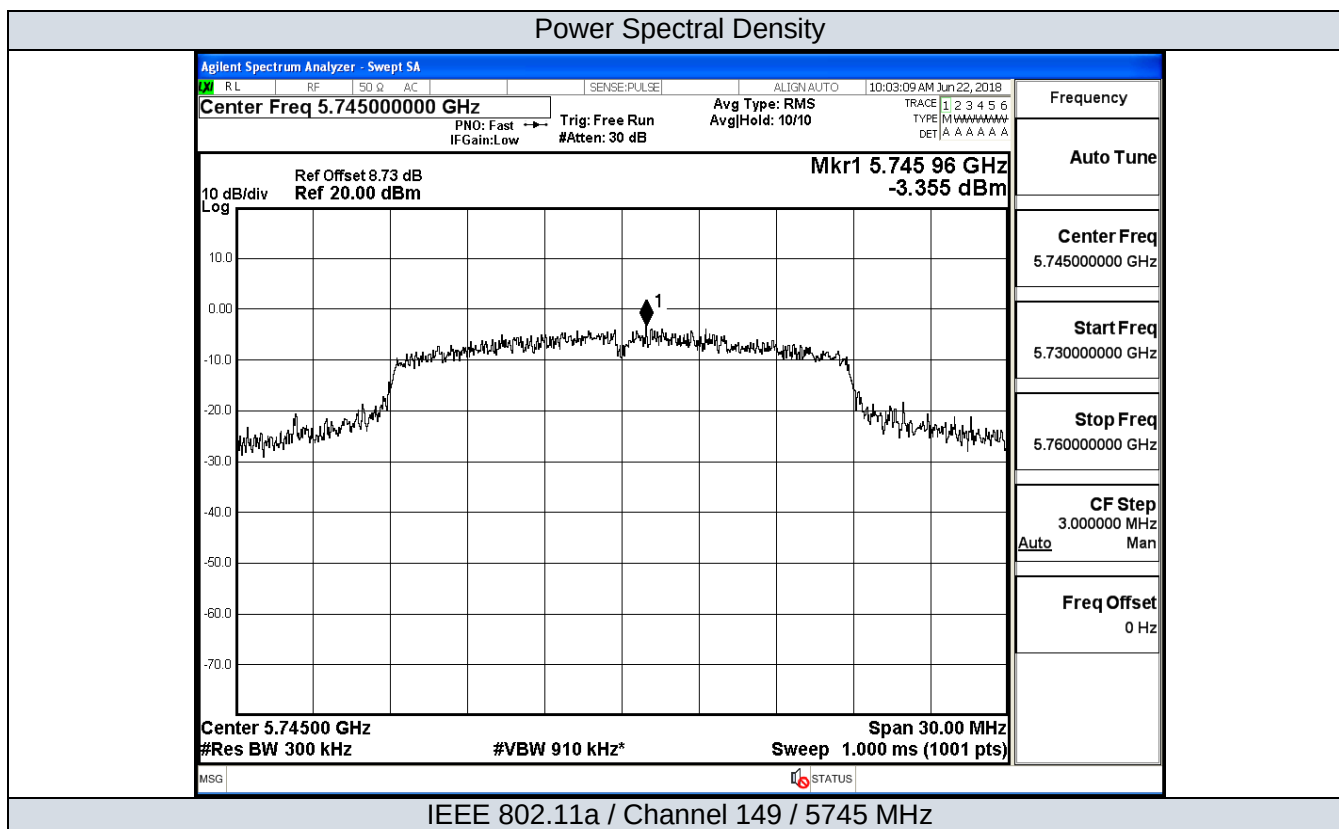
IEEE 802.11ac VHT80

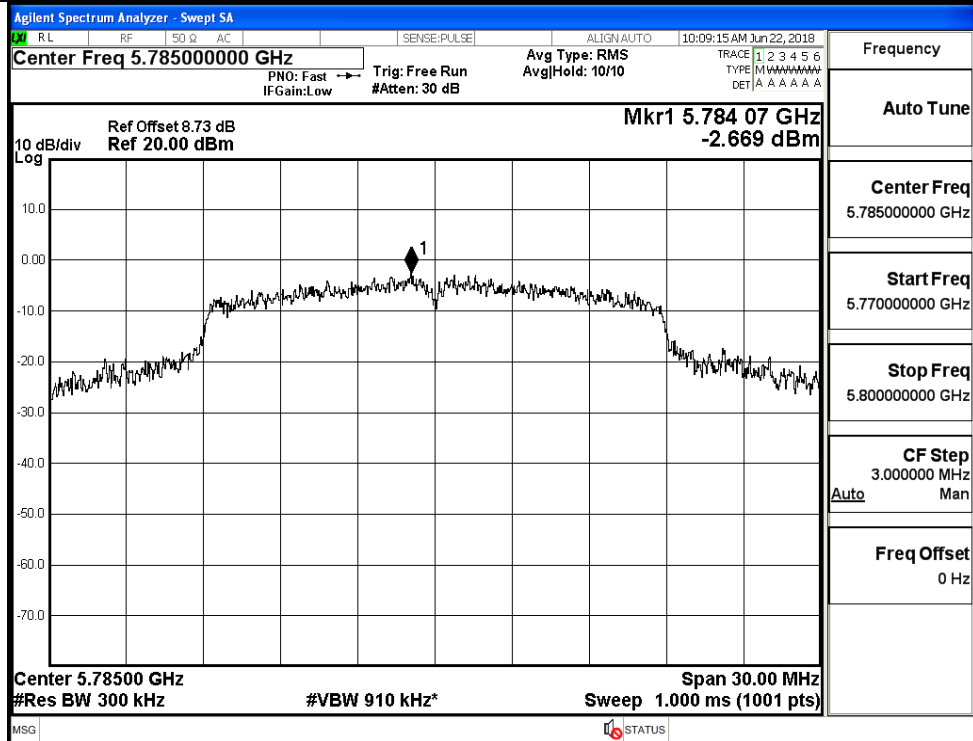
D.2 Maximum Conduct Peak Output Power

Test Mode	Channel	Frequency (MHz)	Burst Average Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)
IEEE 802.11a	149	5745	7.29	0	9.29	30
	157	5785	7.02	0	9.02	
	165	5825	7.32	0	9.32	
IEEE 802.11n HT20	149	5745	7.05	0	8.05	30
	157	5785	7.14	0	8.64	
	165	5825	7.25	0	8.95	
IEEE 802.11n HT40	151	5755	6.04	0	8.04	30
	159	5795	6.91	0	8.91	
IEEE 802.11ac VHT20	149	5745	7.12	0	8.62	30
	157	5785	7.41	0	8.41	
	165	5825	7.16	0	8.16	
IEEE 802.11ac VHT40	151	5755	6.88	0	8.88	30
	159	5795	6.52	0	8.52	
IEEE 802.11ac VHT80	155	5775	6.27	0	8.27	30

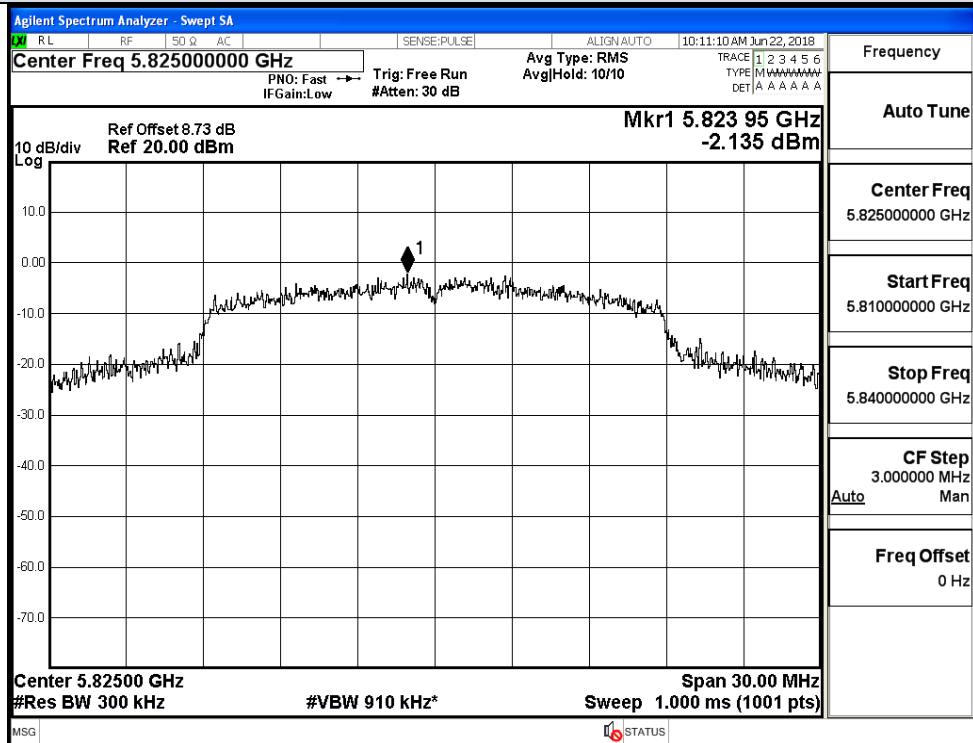
D.3 Power Spectral Density

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	-3.335	0	2.218	-1.117	30
	157	5785	-2.669	0	2.218	-0.451	
	165	5825	-2.135	0	2.218	0.083	
IEEE 802.11n HT20	149	5745	-3.778	0	2.218	-1.560	30
	157	5785	-2.805	0	2.218	-0.587	
	165	5825	-2.927	0	2.218	-0.709	
IEEE 802.11n HT40	151	5755	-6.178	0	2.218	-3.960	30
	159	5795	-5.002	0	2.218	-2.784	
IEEE 802.11ac VHT20	149	5745	-3.968	0	2.218	-1.750	30
	157	5785	-3.162	0	2.218	-0.944	
	165	5825	-2.270	0	2.218	-0.052	
IEEE 802.11ac VHT40	151	5755	-5.828	0	2.218	-3.610	30
	159	5795	-5.021	0	2.218	-2.803	
IEEE 802.11ac VHT80	155	5775	-10.238	0	2.218	-8.020	30



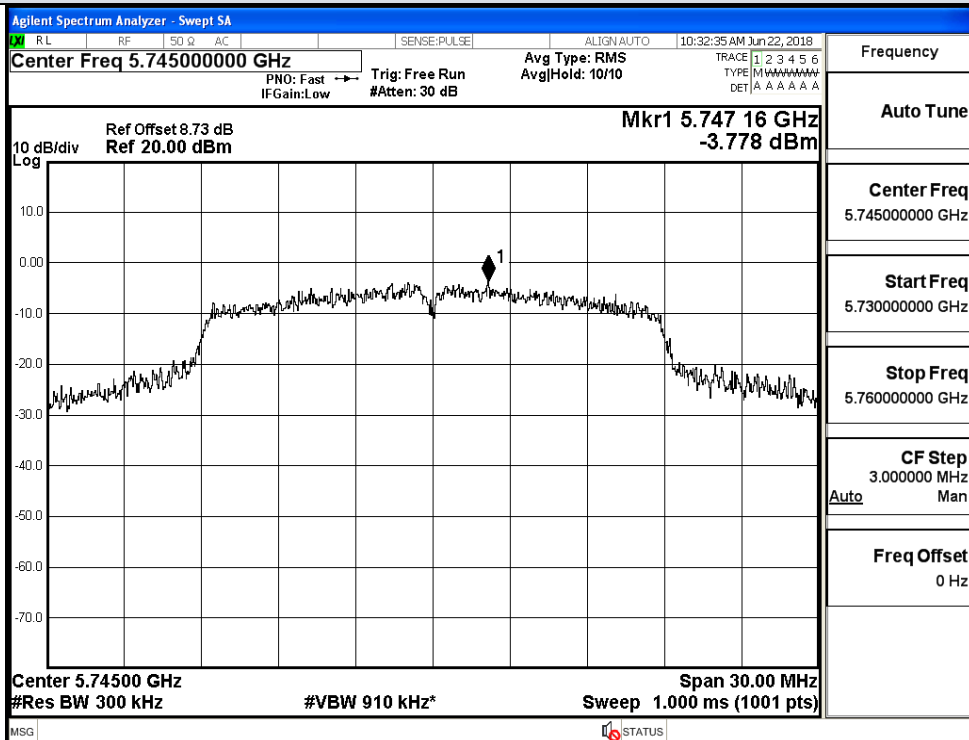


IEEE 802.11a / Channel 157 / 5785 MHz

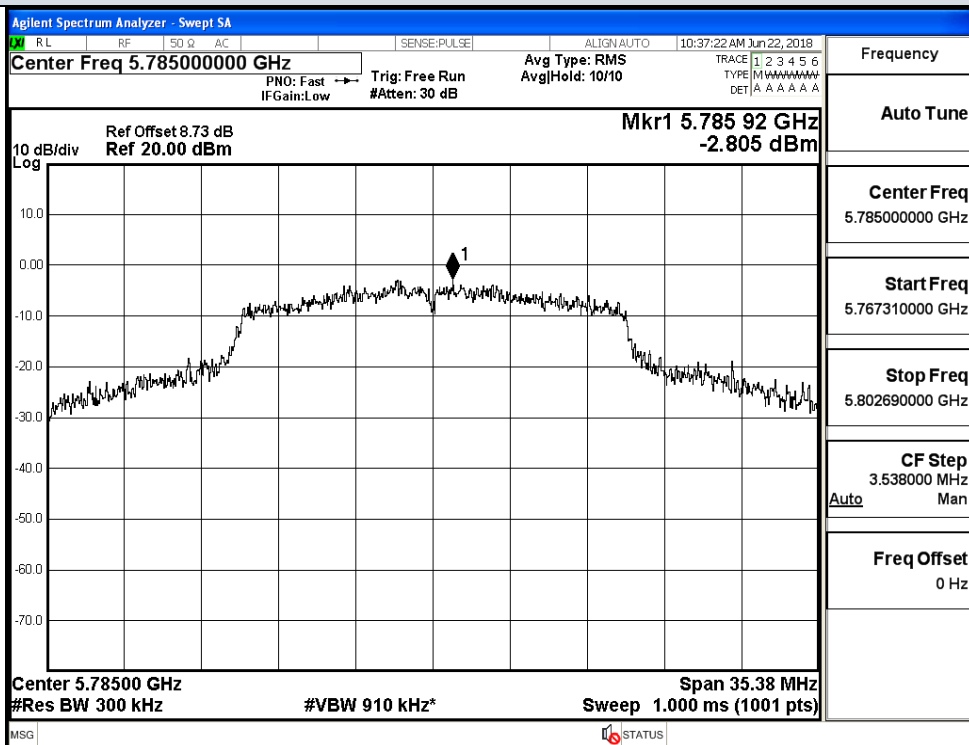


IEEE 802.11a / Channel 165 / 5825 MHz

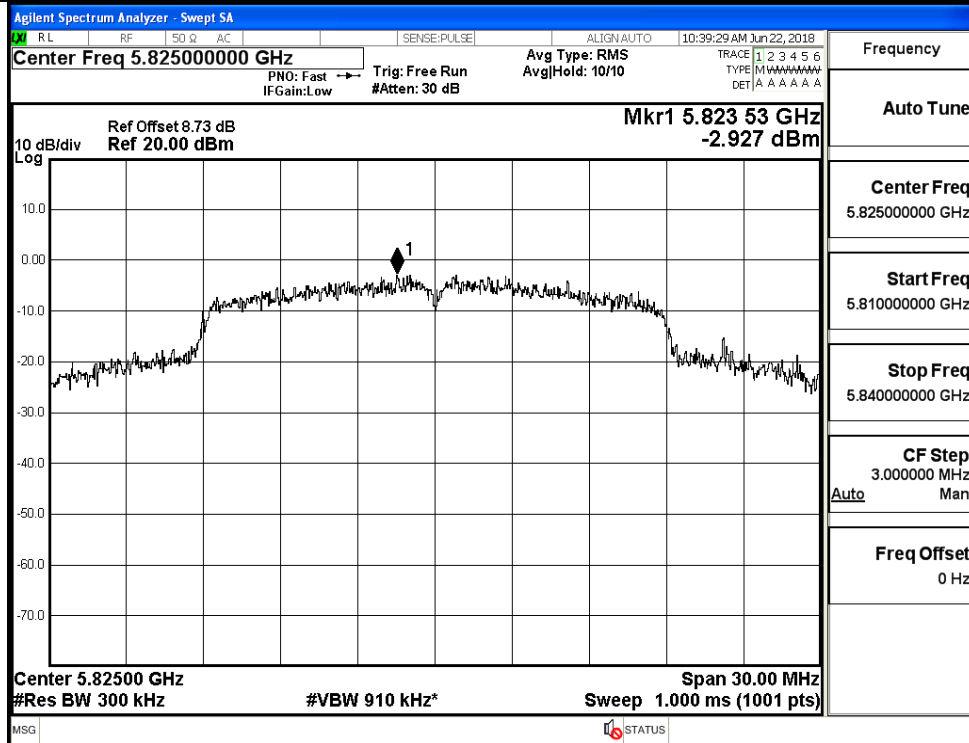
Power Spectral Density



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

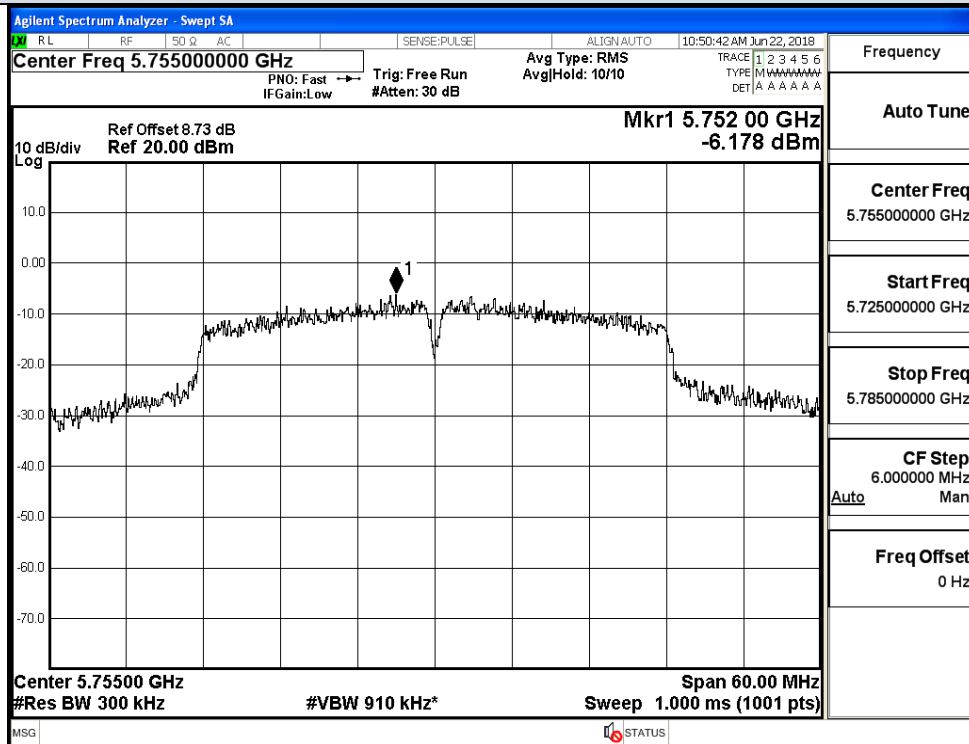


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

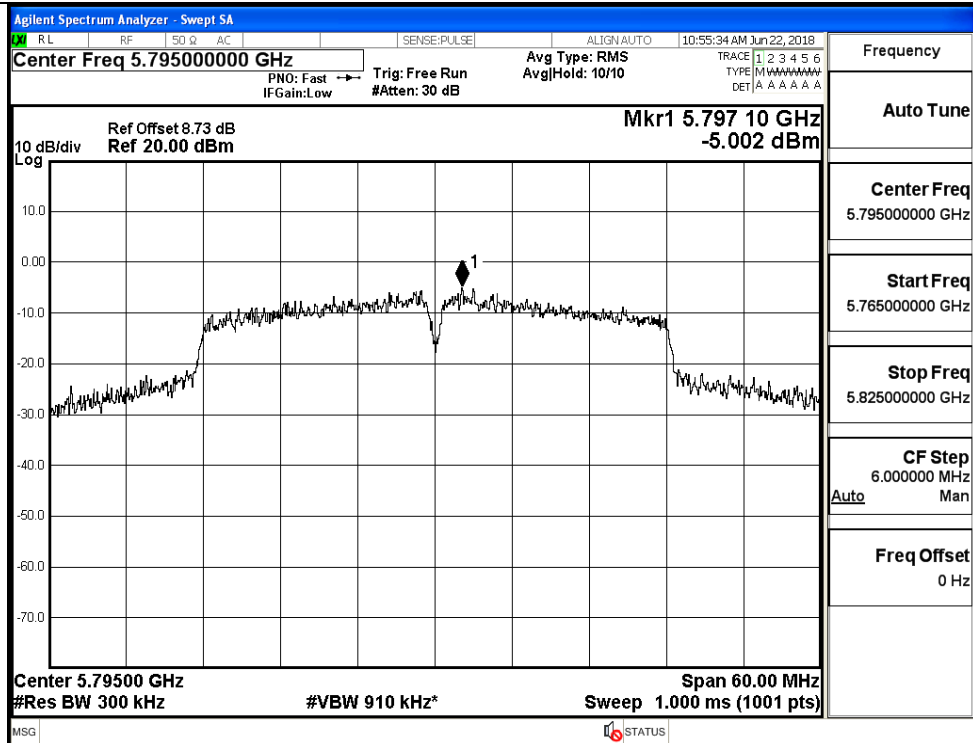


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

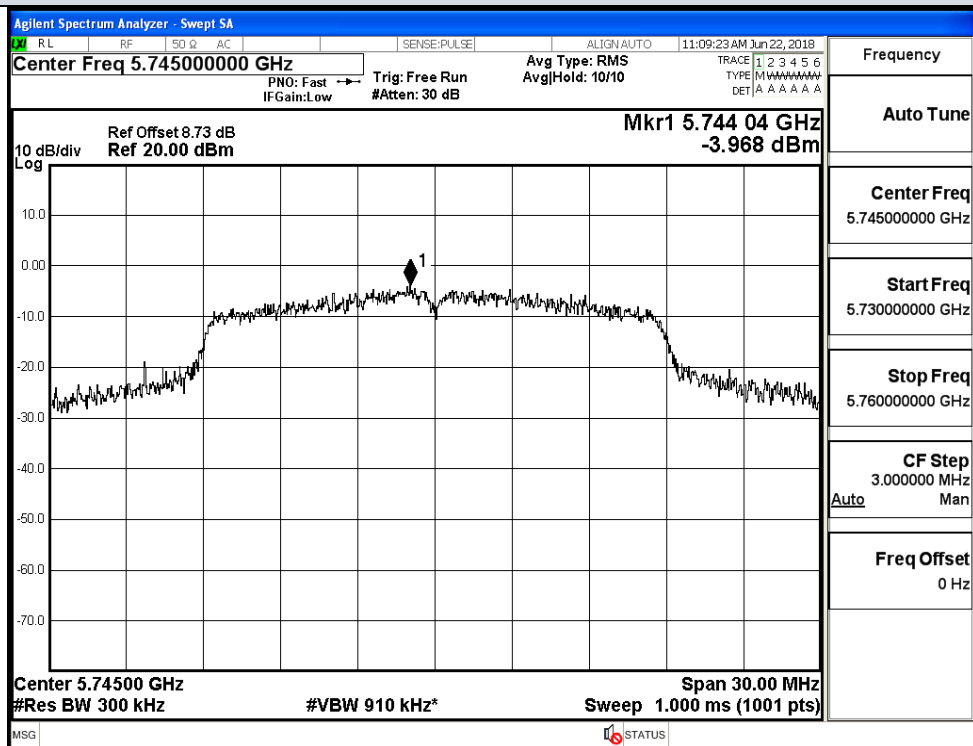
Power Spectral Density



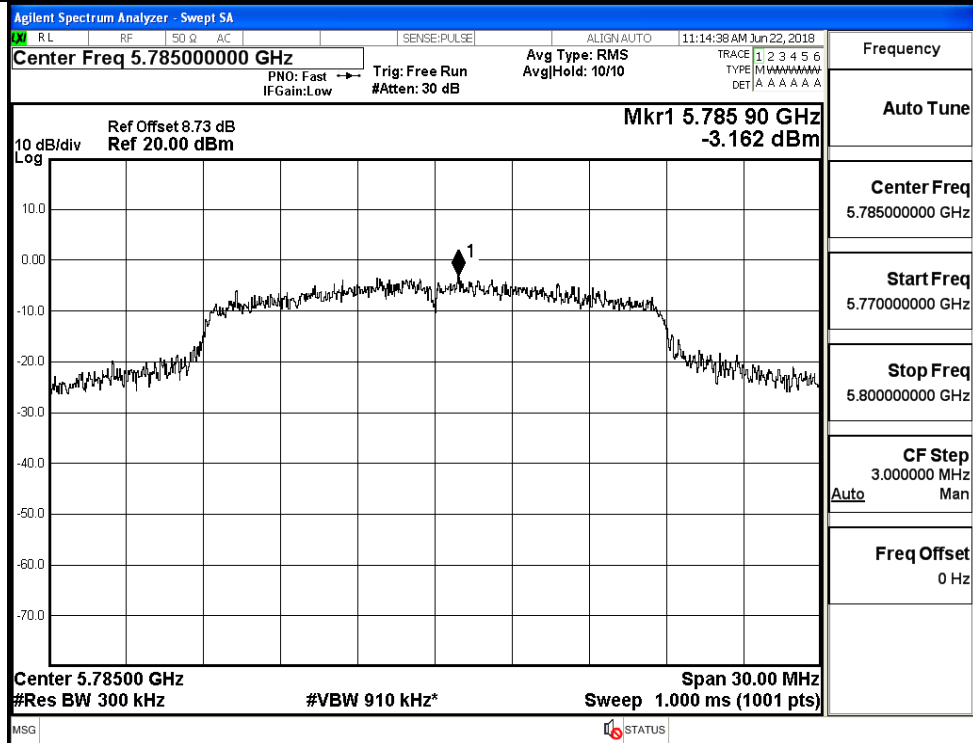
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



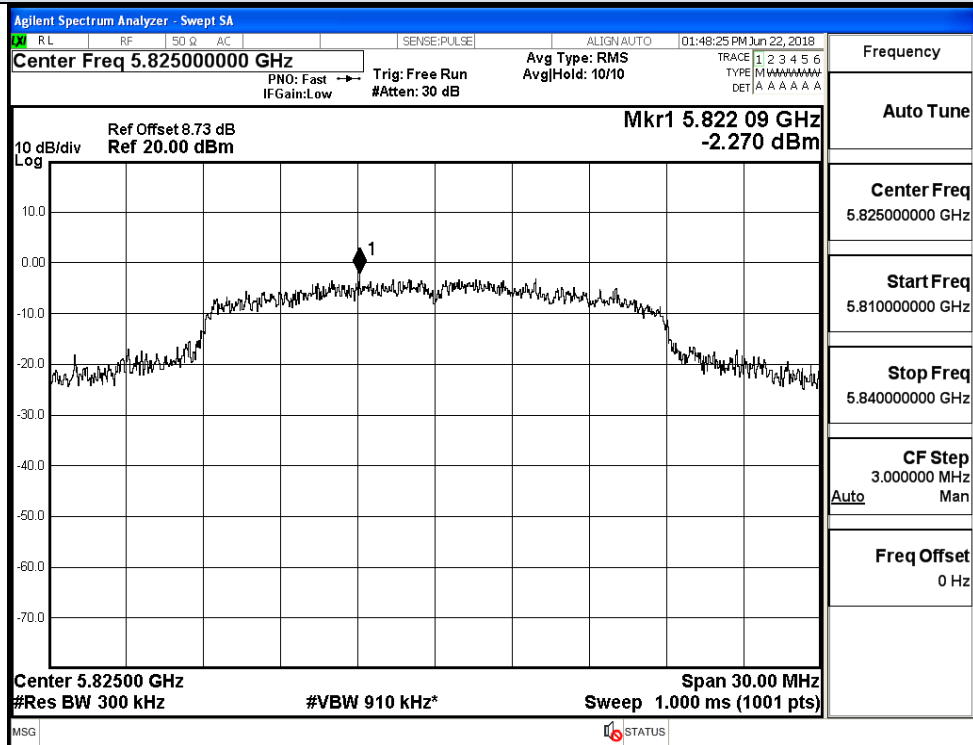
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



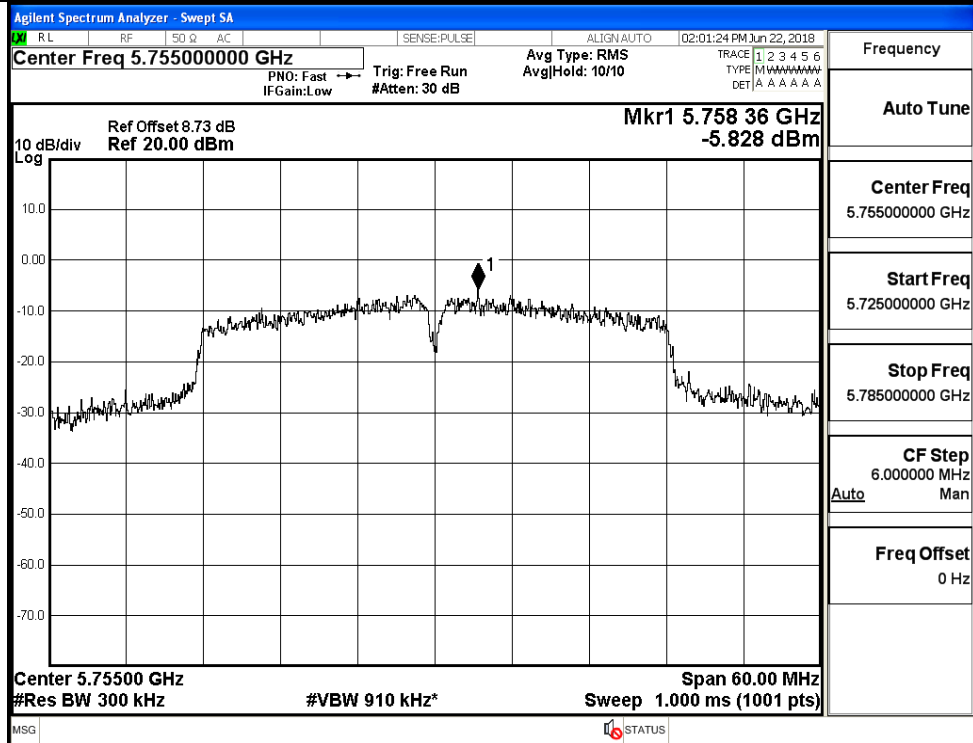
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



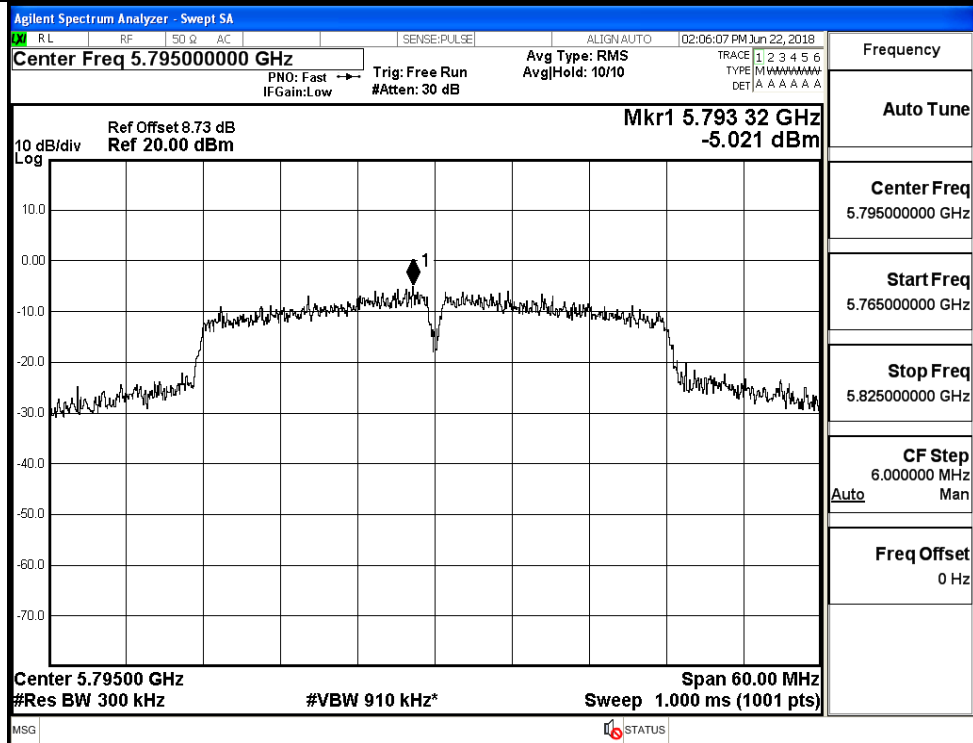
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



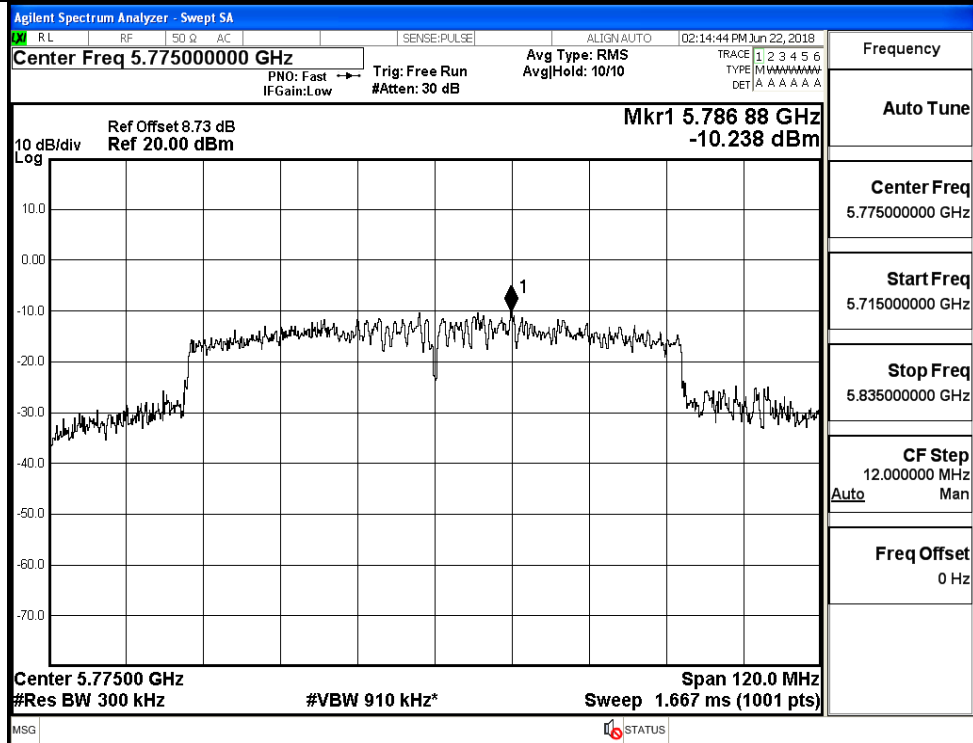
IEEE 802.11ac VHT 20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



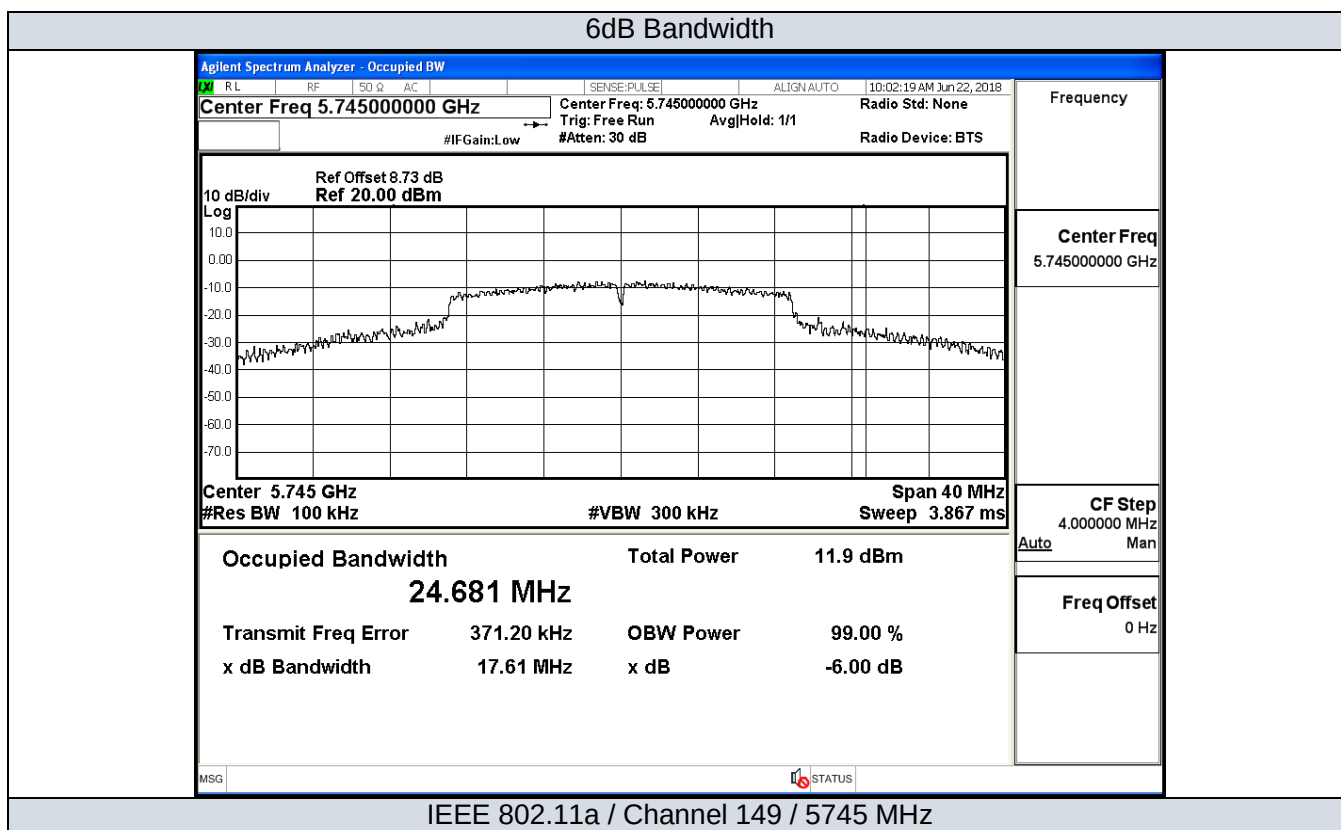
IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

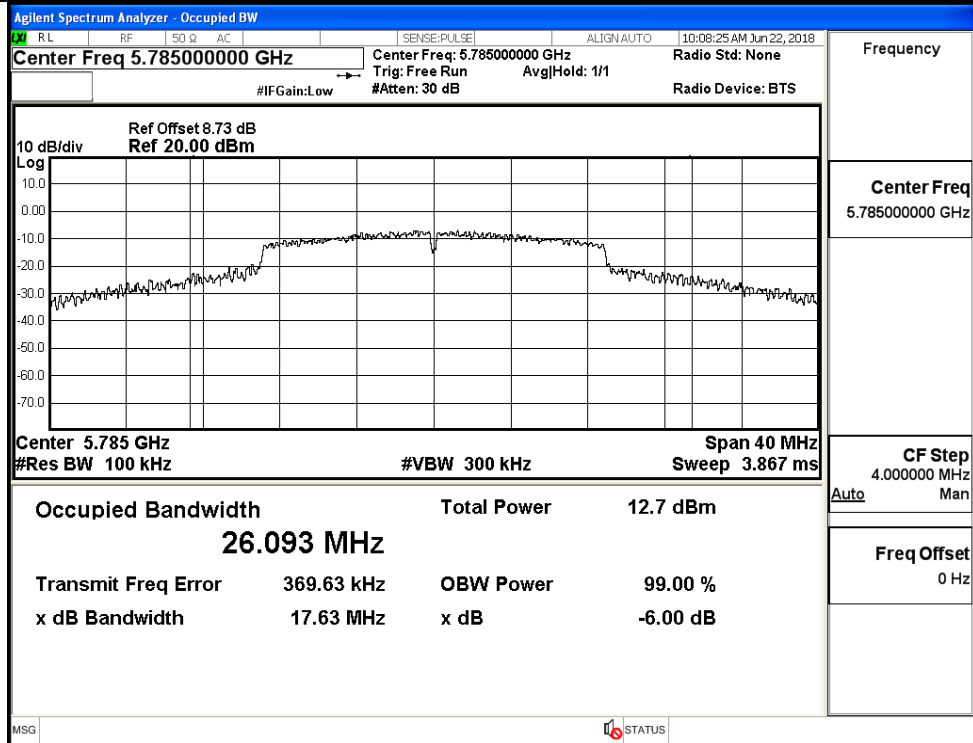


IEEE 802.11ac VHT80 / Channel 155/ 5775 MHz

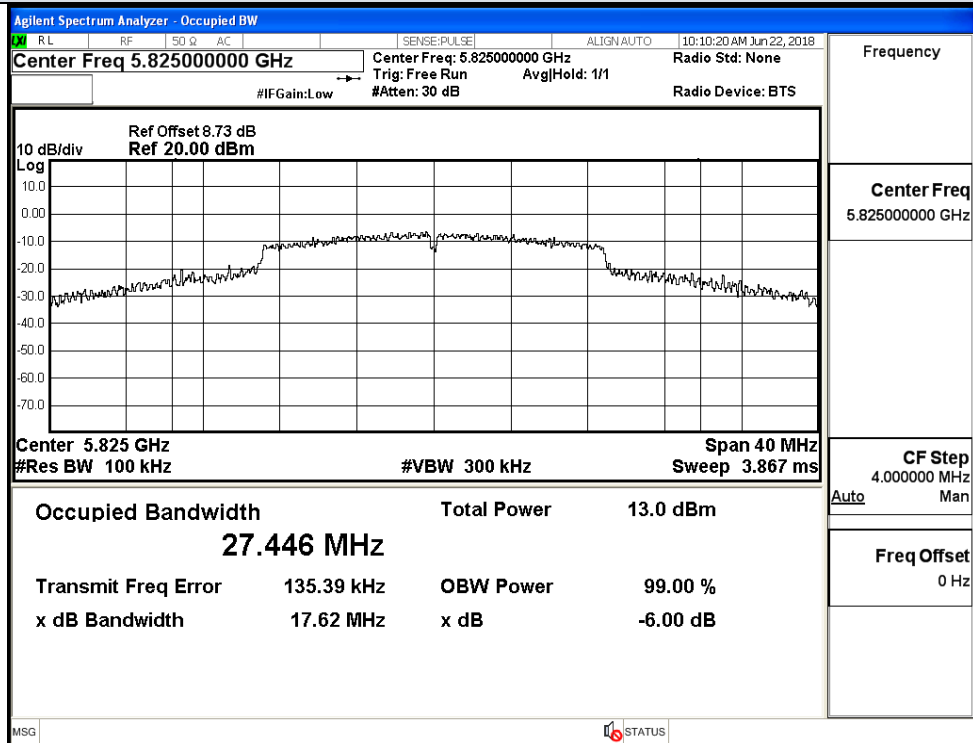
D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
IEEE 802.11a	149	5745	17.610	>=0.5
	157	5785	17.630	
	165	5825	17.620	
IEEE 802.11n HT20	149	5745	17.520	>=0.5
	157	5785	17.690	
	165	5825	17.590	
IEEE 802.11n HT40	151	5755	35.880	>=0.5
	159	5795	36.030	
IEEE 802.11ac VHT20	149	5745	17.350	>=0.5
	157	5785	16.900	
	165	5825	17.590	
IEEE 802.11ac VHT40	151	5755	36.340	>=0.5
	159	5795	35.860	
IEEE 802.11ac VHT80	155	5775	75.660	>=0.5



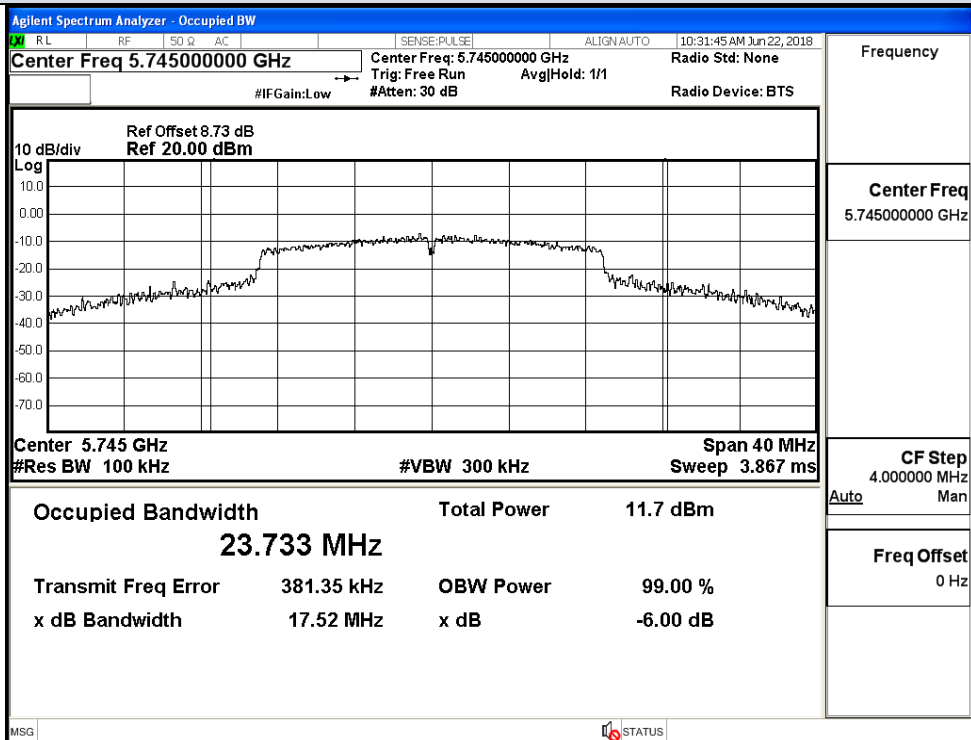


IEEE 802.11a / Channel 157 / 5785 MHz

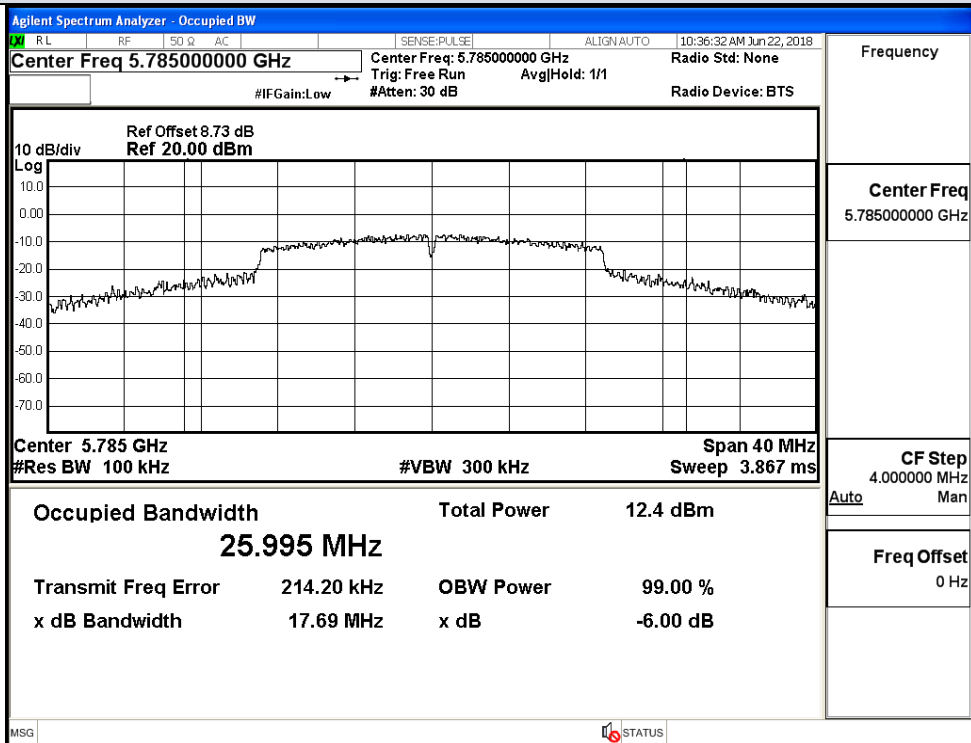


IEEE 802.11a / Channel 165 / 5825 MHz

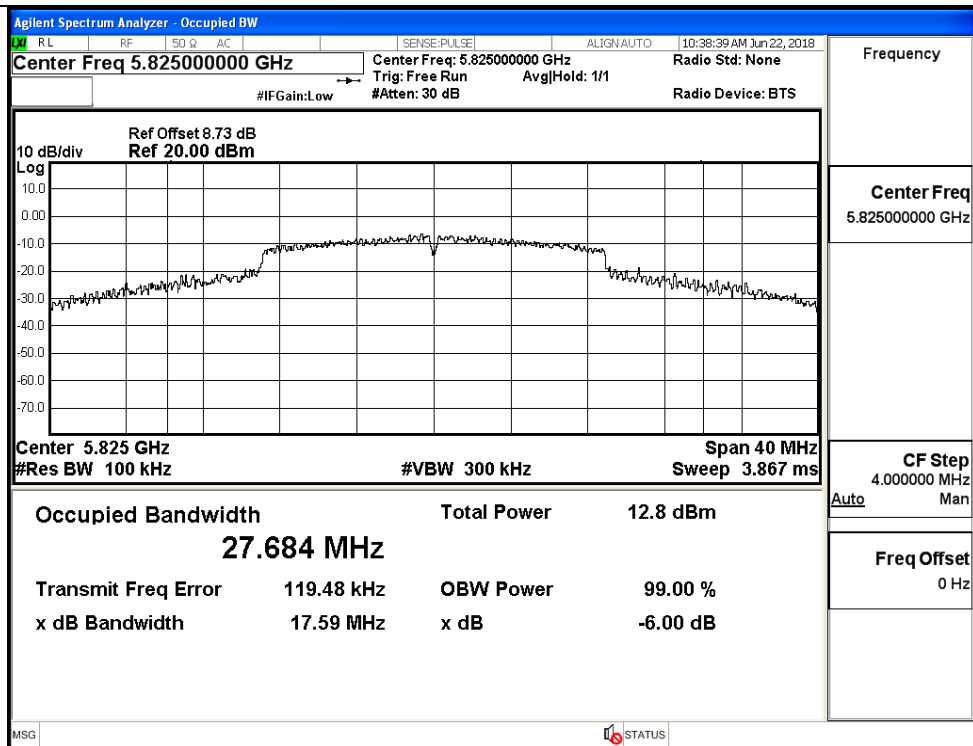
6dB Bandwidth



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

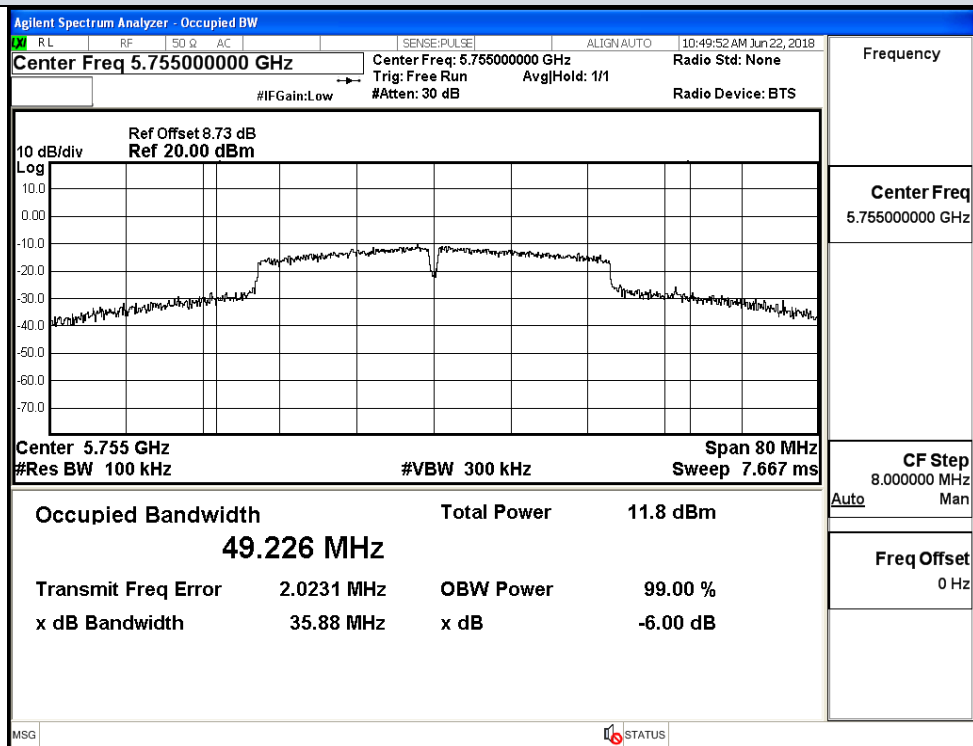


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

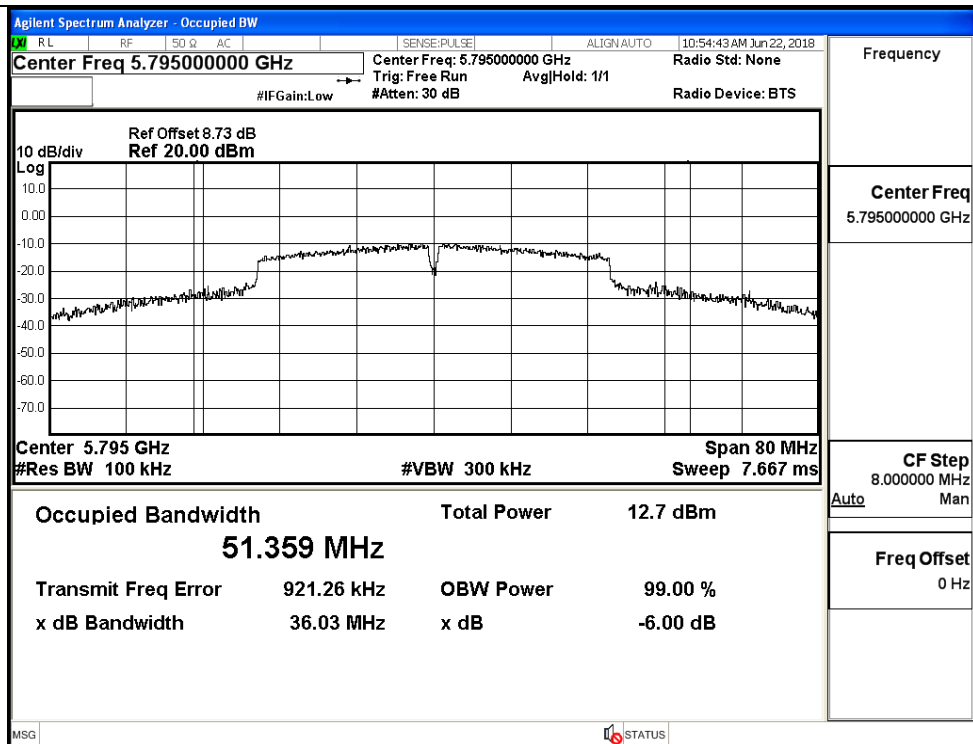


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

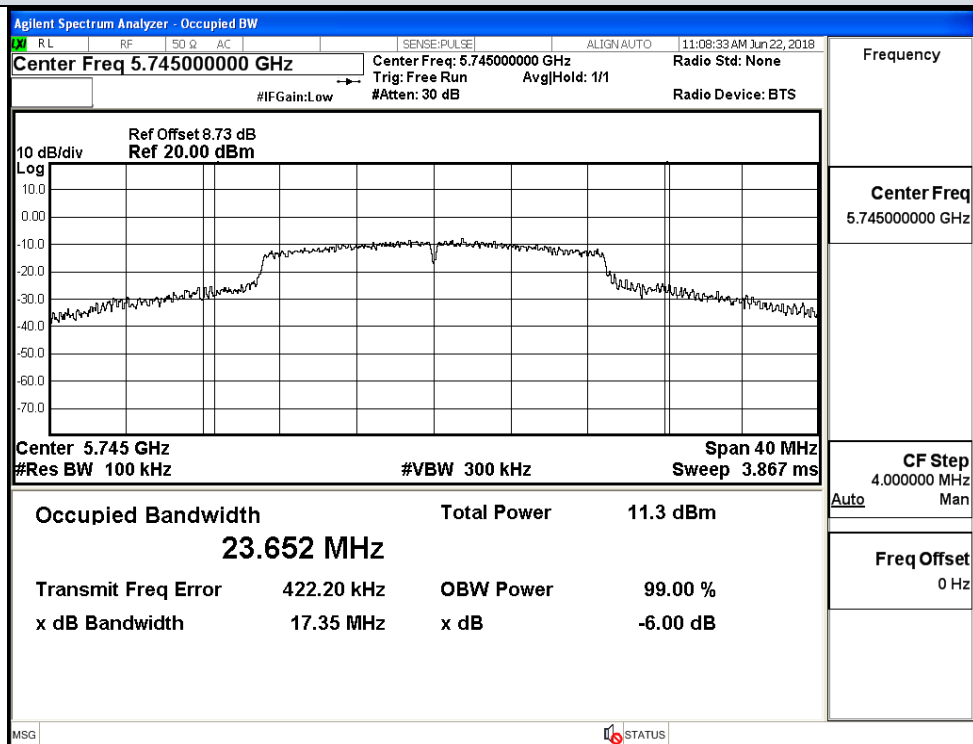
6dB Bandwidth



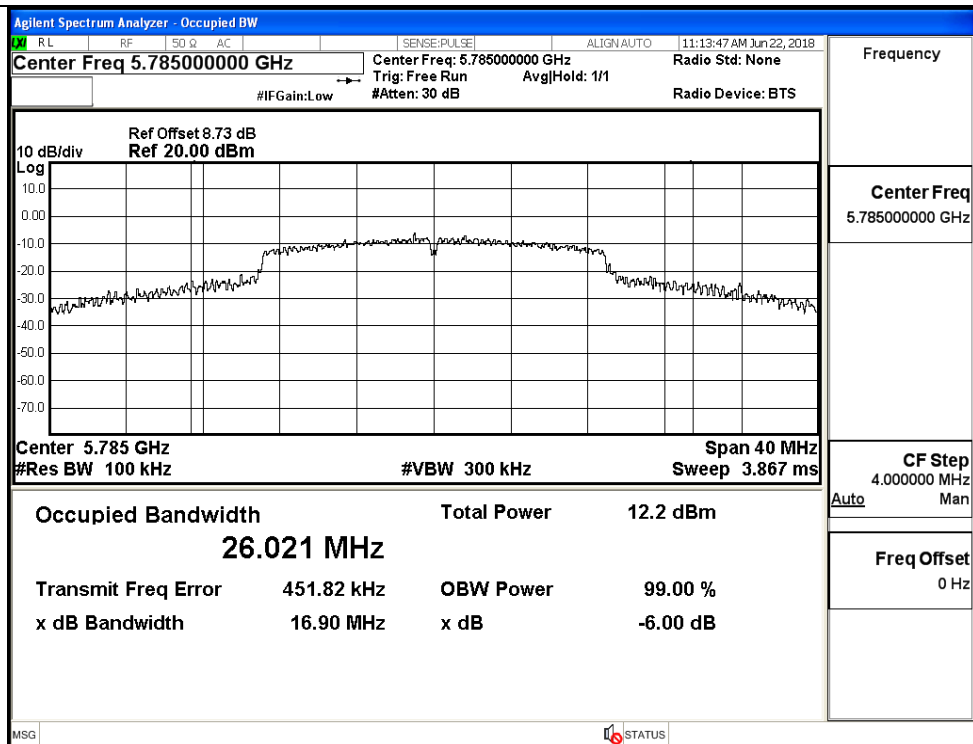
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



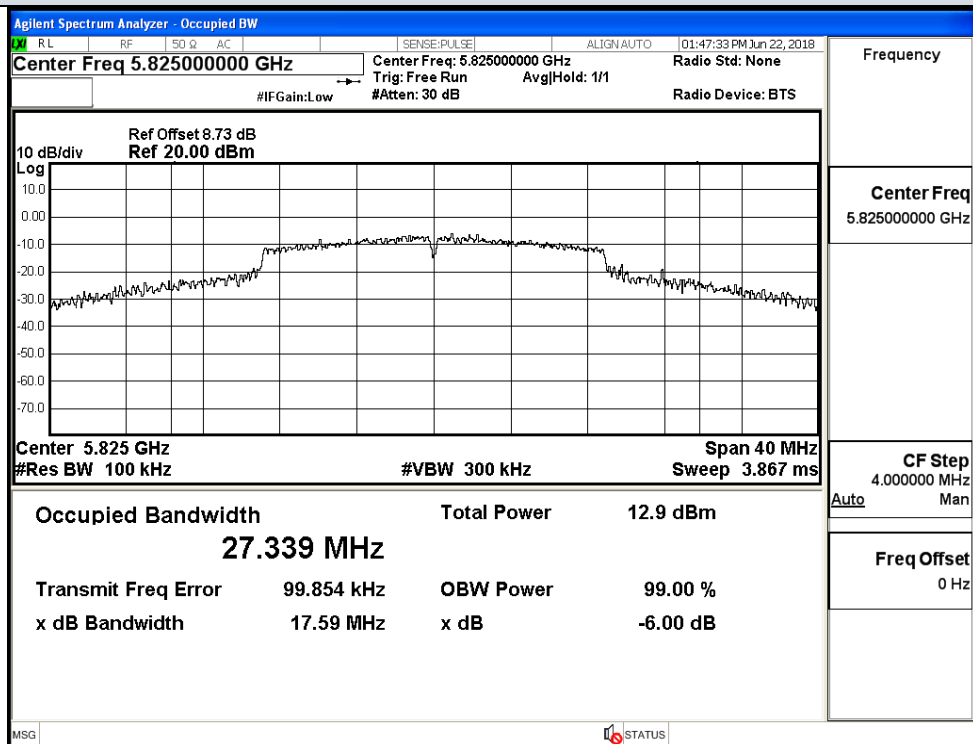
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



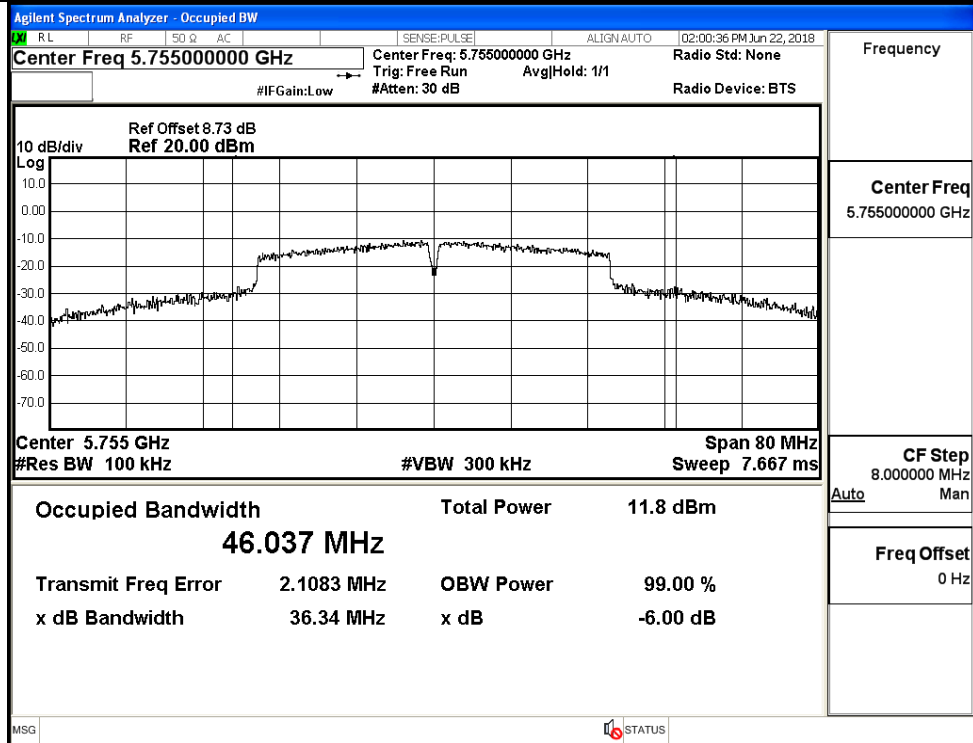
IEEE 802.11ac VHT 20 / Channel 149 / 5745 MHz



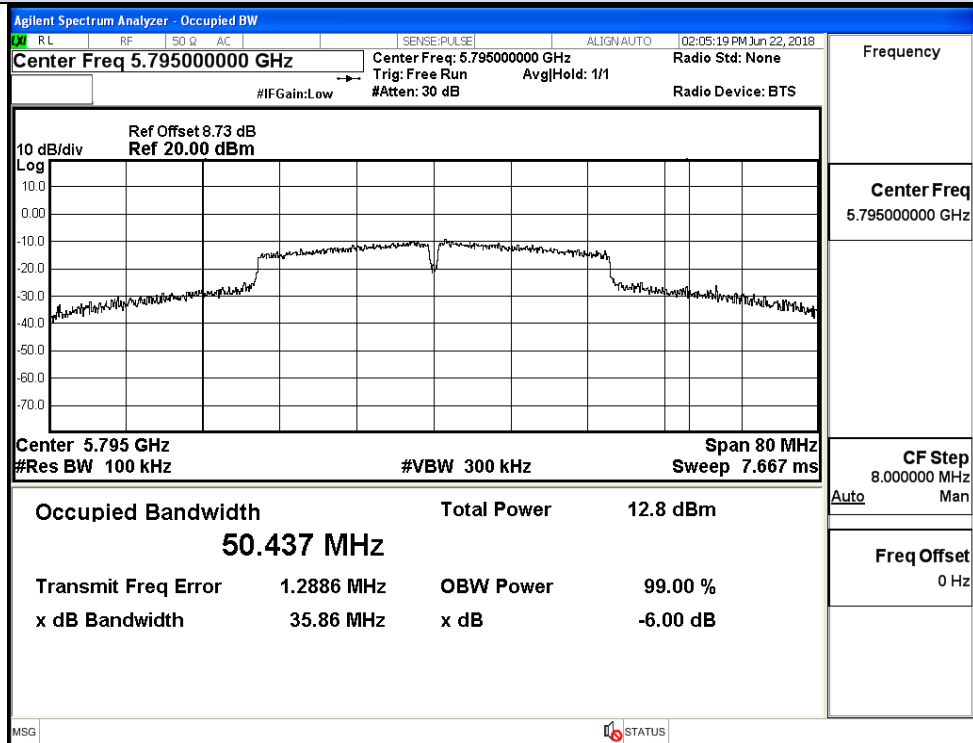
IEEE 802.11ac VHT20 / Channel 157/ 5785 MHz



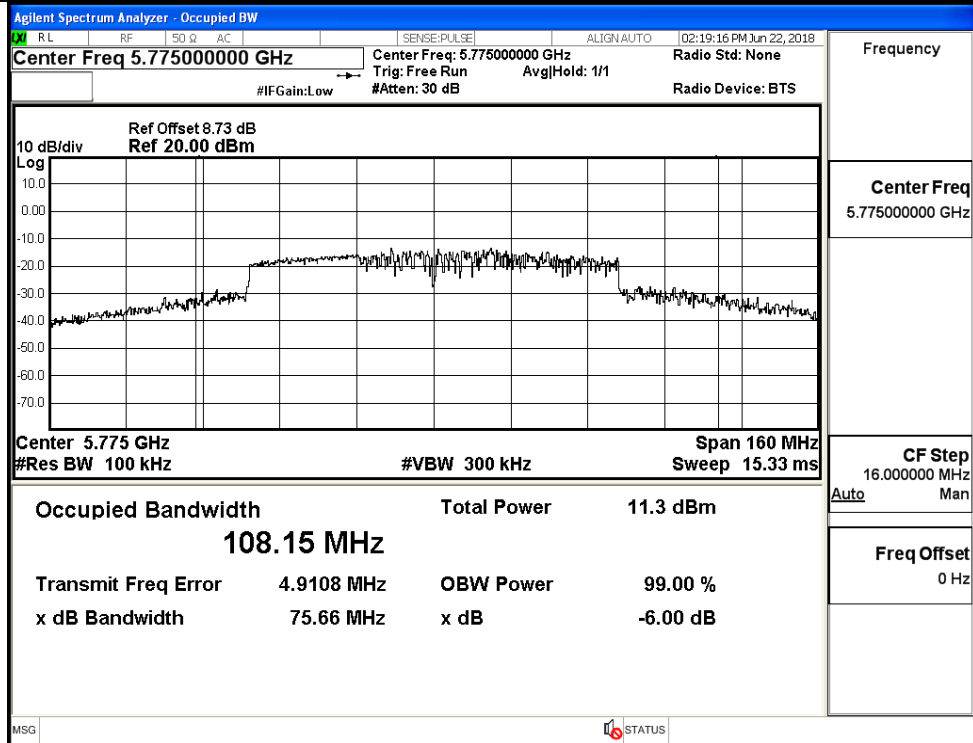
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

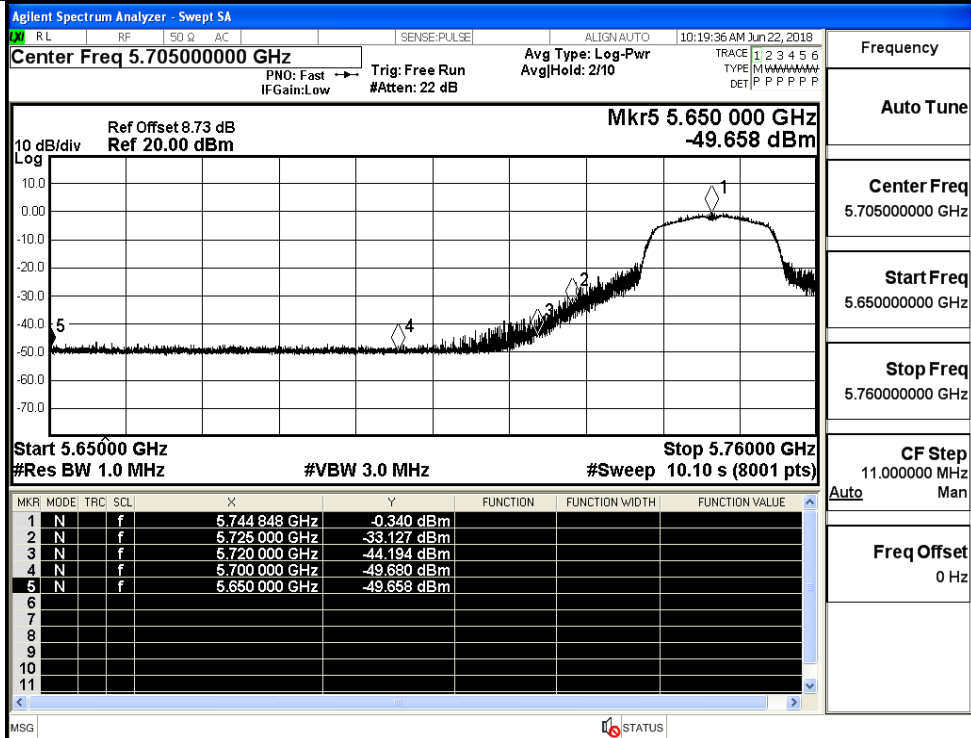


IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

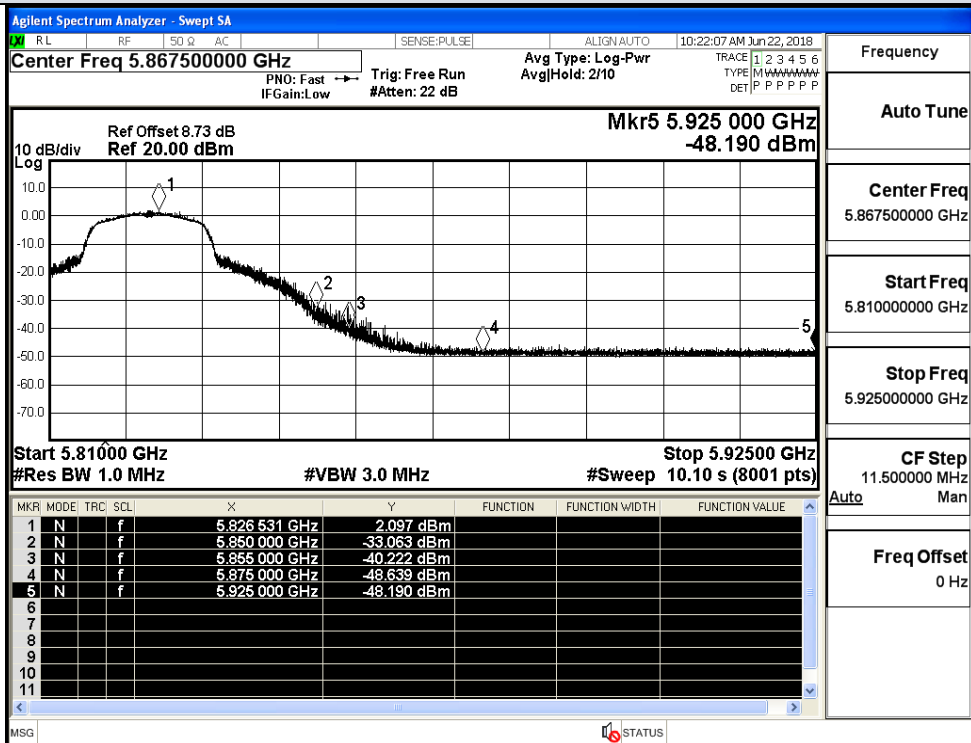
D.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
IEEE 802.11a	149	5650.000	-49.658	2.000	-47.658	Peak	-27.00
		5700.000	-49.680	2.000	-47.680	Peak	10.00
		5720.000	-44.194	2.000	-42.194	Peak	15.60
		5725.000	-33.127	2.000	-31.127	Peak	27.00
	165	5850.000	-33.063	2.000	-31.063	Peak	27.00
		5855.000	-40.222	2.000	-38.222	Peak	15.60
		5875.000	-48.639	2.000	-46.639	Peak	10.00
		5925.000	-48.190	2.000	-46.190	Peak	-27.00
IEEE 802.11n HT20	149	5650.000	-49.124	2.000	-47.124	Peak	-27.00
		5700.000	-50.124	2.000	-48.124	Peak	10.00
		5720.000	-44.627	2.000	-42.627	Peak	15.60
		5725.000	-35.029	2.000	-33.029	Peak	27.00
	165	5850.000	-35.142	2.000	-33.142	Peak	27.00
		5855.000	-39.190	2.000	-37.190	Peak	15.60
		5875.000	-49.281	2.000	-47.281	Peak	10.00
		5925.000	-48.974	2.000	-46.974	Peak	-27.00
IEEE 802.11n HT40	151	5650.000	-50.142	2.000	-48.142	Peak	-27.00
		5700.000	-48.250	2.000	-46.250	Peak	10.00
		5720.000	-36.340	2.000	-34.340	Peak	15.60
		5725.000	-31.390	2.000	-29.390	Peak	27.00
	159	5850.000	-32.493	2.000	-30.493	Peak	27.00
		5855.000	-34.860	2.000	-32.860	Peak	15.60
		5875.000	-45.176	2.000	-43.176	Peak	10.00
		5925.000	-48.544	2.000	-46.544	Peak	-27.00
IEEE 802.11ac VHT20	149	5650.000	-48.870	2.000	-46.870	Peak	-27.00
		5700.000	-50.115	2.000	-48.115	Peak	10.00
		5720.000	-45.180	2.000	-43.180	Peak	15.60
		5725.000	-36.808	2.000	-34.808	Peak	27.00
	165	5850.000	-37.152	2.000	-35.152	Peak	27.00
		5855.000	-41.018	2.000	-39.018	Peak	15.60
		5875.000	-48.791	2.000	-46.791	Peak	10.00
		5925.000	-38.335	2.000	-36.335	Peak	-27.00
IEEE 802.11ac VHT40	149	5650.000	-49.733	2.000	-47.733	Peak	-27.00
		5700.000	-49.563	2.000	-47.563	Peak	10.00
		5720.000	-38.195	2.000	-36.195	Peak	15.60
		5725.000	-34.396	2.000	-32.396	Peak	27.00
	165	5850.000	-32.089	2.000	-30.089	Peak	27.00
		5855.000	-35.062	2.000	-33.062	Peak	15.60
		5875.000	-44.284	2.000	-42.284	Peak	10.00
		5925.000	-48.231	2.000	-46.231	Peak	-27.00
IEEE 802.11ac VHT80	155	5650.000	-51.827	2.000	-49.827	Peak	-27.00
		5700.000	-43.407	2.000	-41.407	Peak	10.00
		5720.000	-34.744	2.000	-32.744	Peak	15.60
		5725.000	-34.953	2.000	-32.953	Peak	27.00
		5850.000	-35.255	2.000	-33.255	Peak	27.00
		5855.000	-37.857	2.000	-35.857	Peak	15.60
		5875.000	-45.811	2.000	-43.811	Peak	10.00
		5925.000	-49.782	2.000	-47.782	Peak	-27.00

Undesirable Emissions Measurement

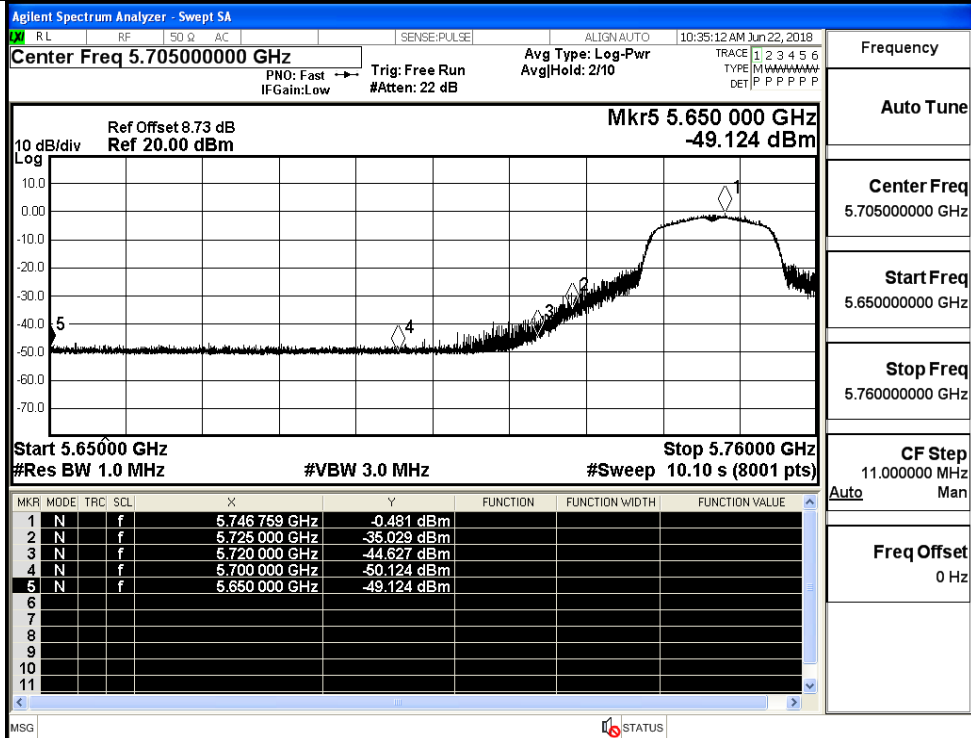


IEEE 802.11a / Channel 149 / 5745 MHz / Peak

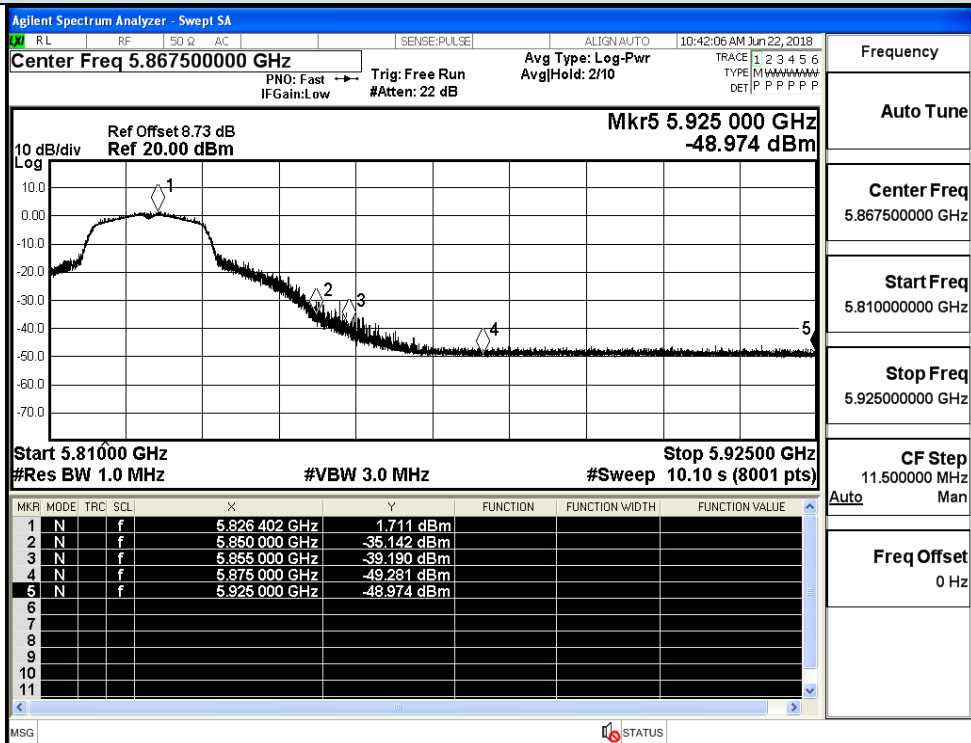


IEEE 802.11a / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

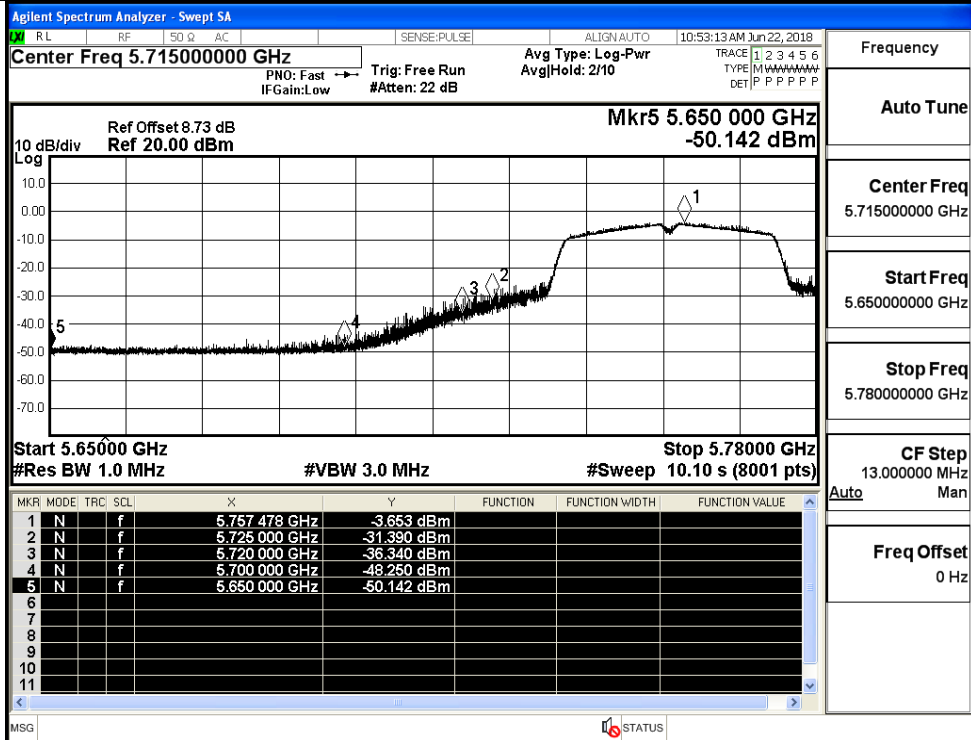


IEEE 802.11n HT20 / Channel 149 / 5745 MHz / Peak

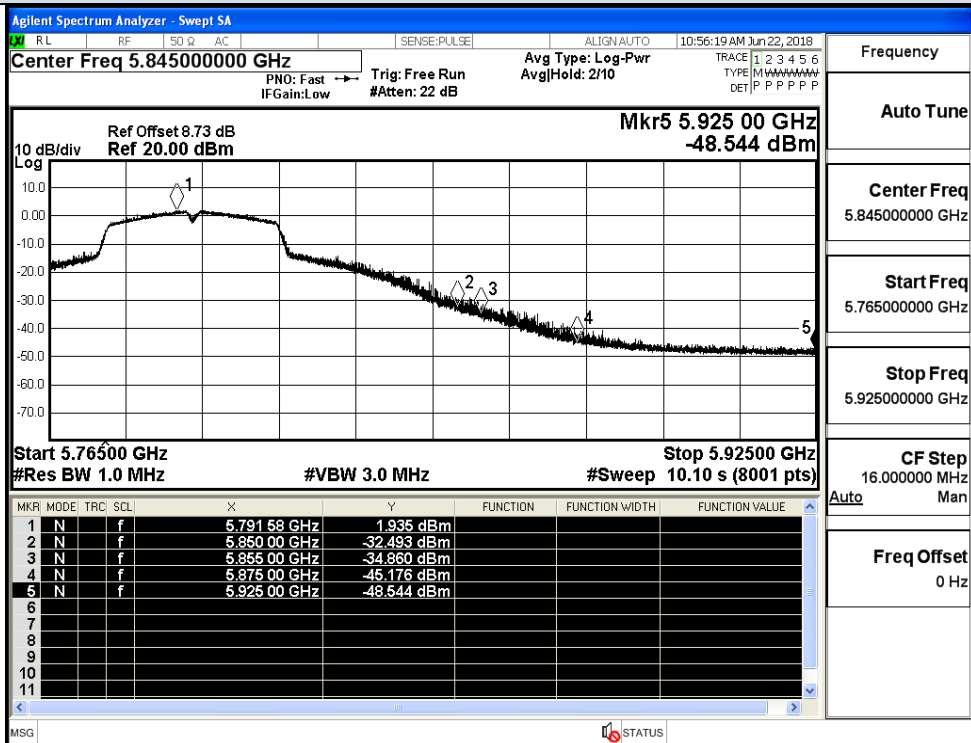


IEEE 802.11n HT20 / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

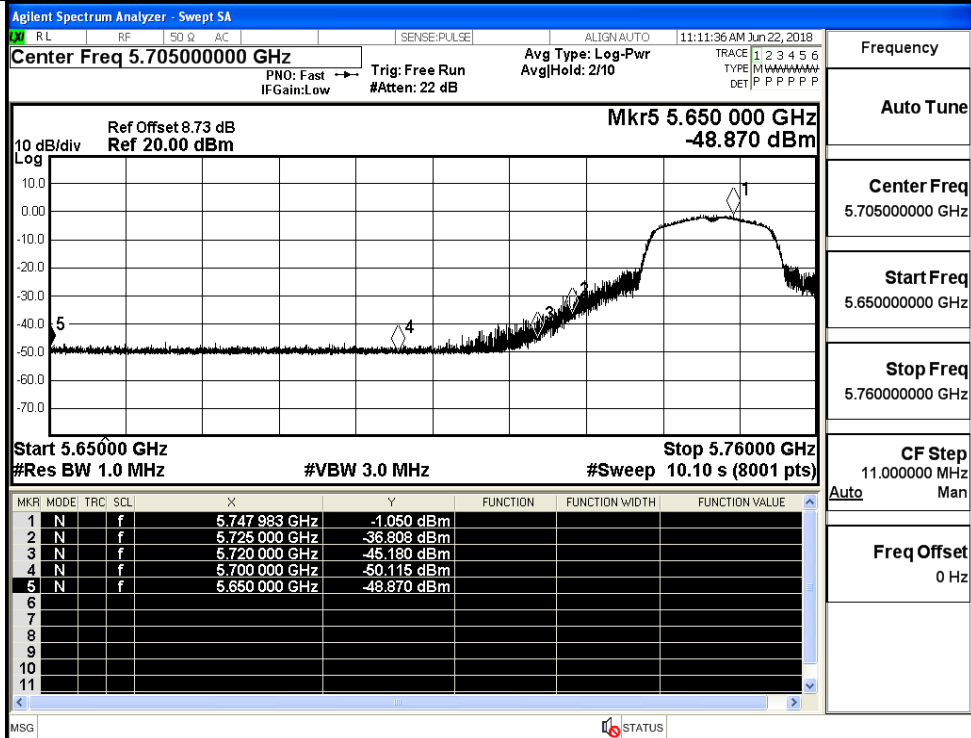


IEEE 802.11n HT40 / Channel 151 / 575 5MHz / Peak

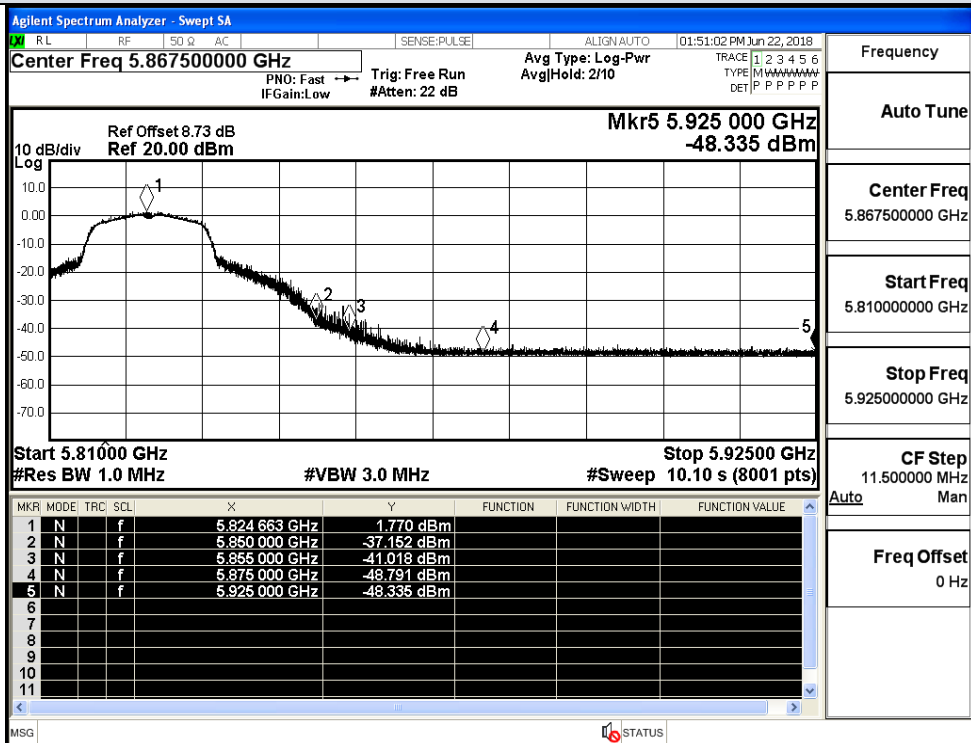


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak

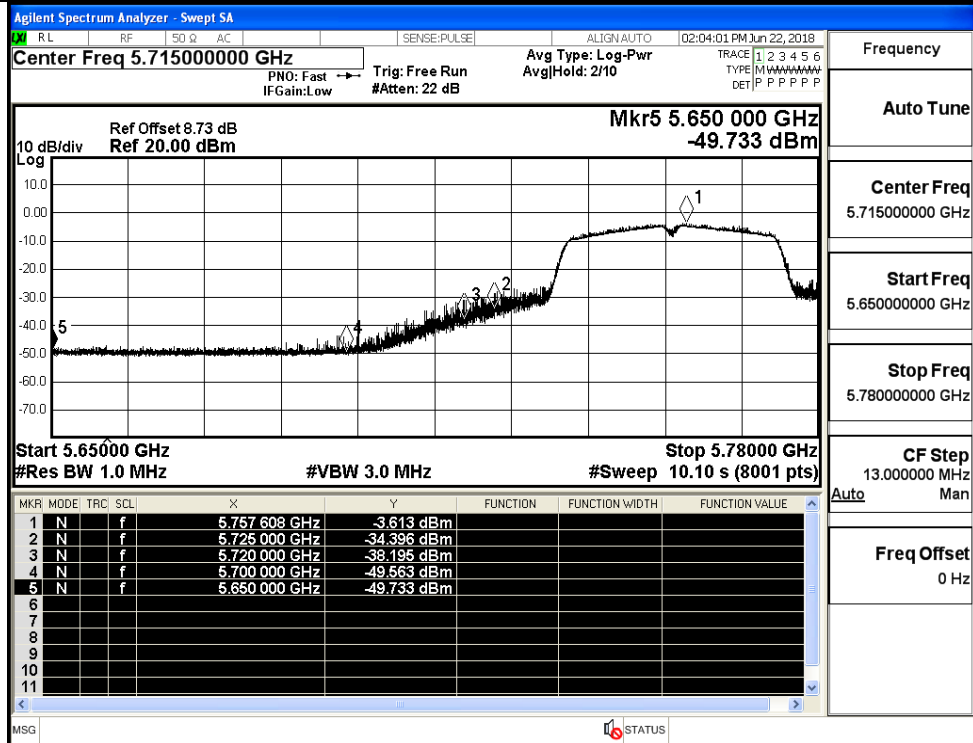
Undesirable Emissions Measurement



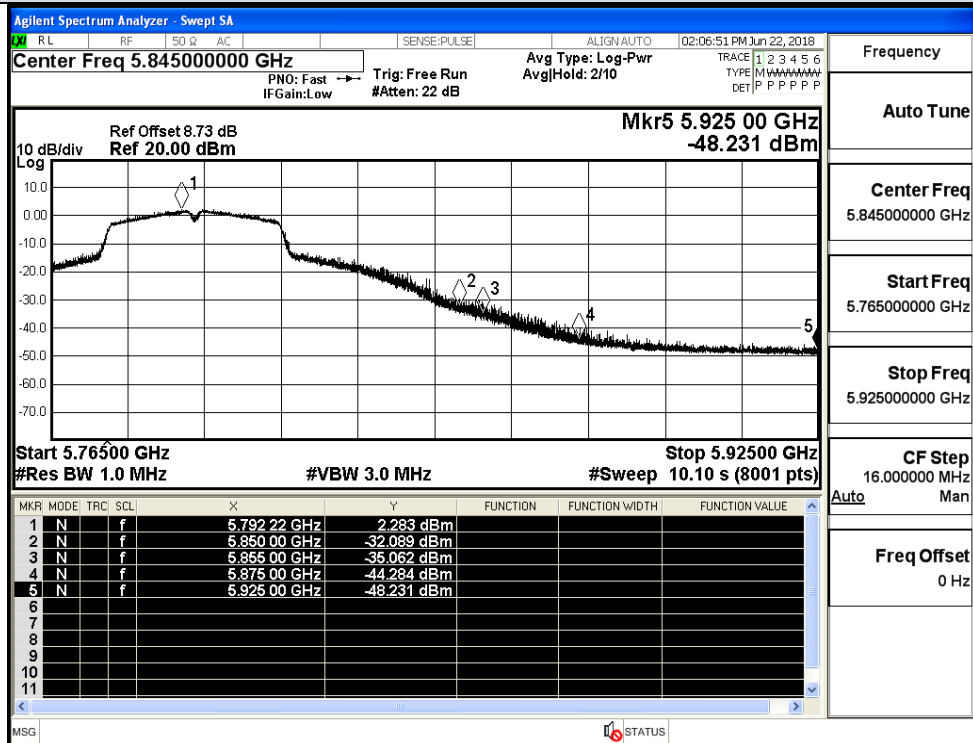
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz / Peak



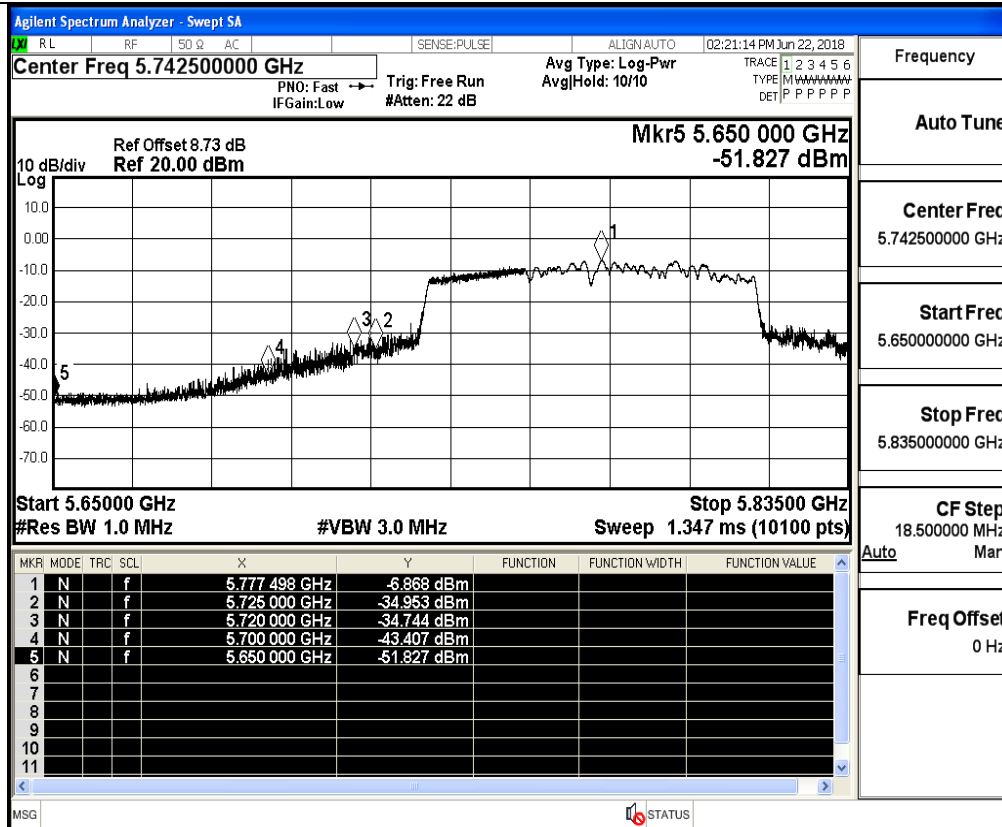
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz / Peak



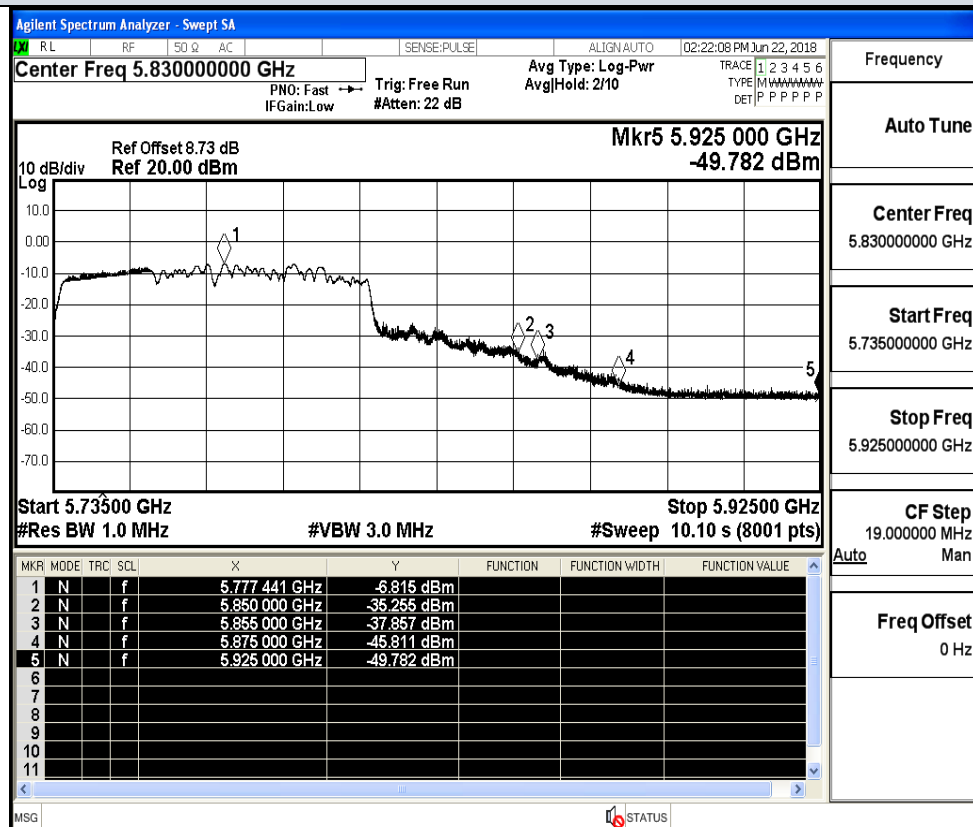
IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz / Peak



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



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