

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Smartphone

Trade Mark: Win

Test Model: M5

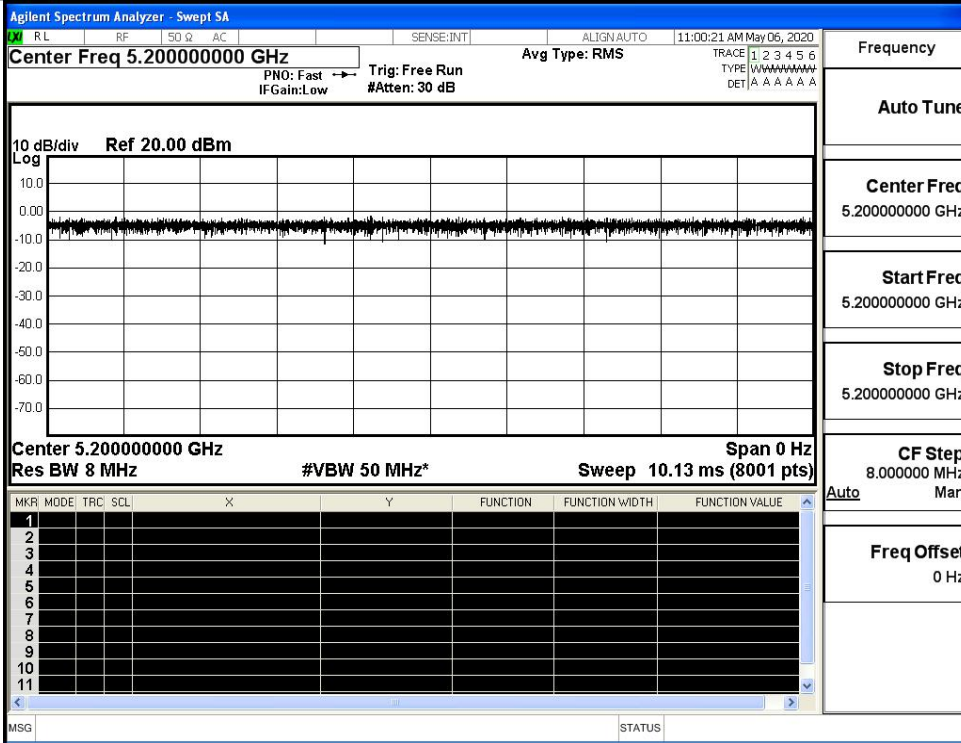
Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	LI HUAN
Supervised by:	Tom.Liu

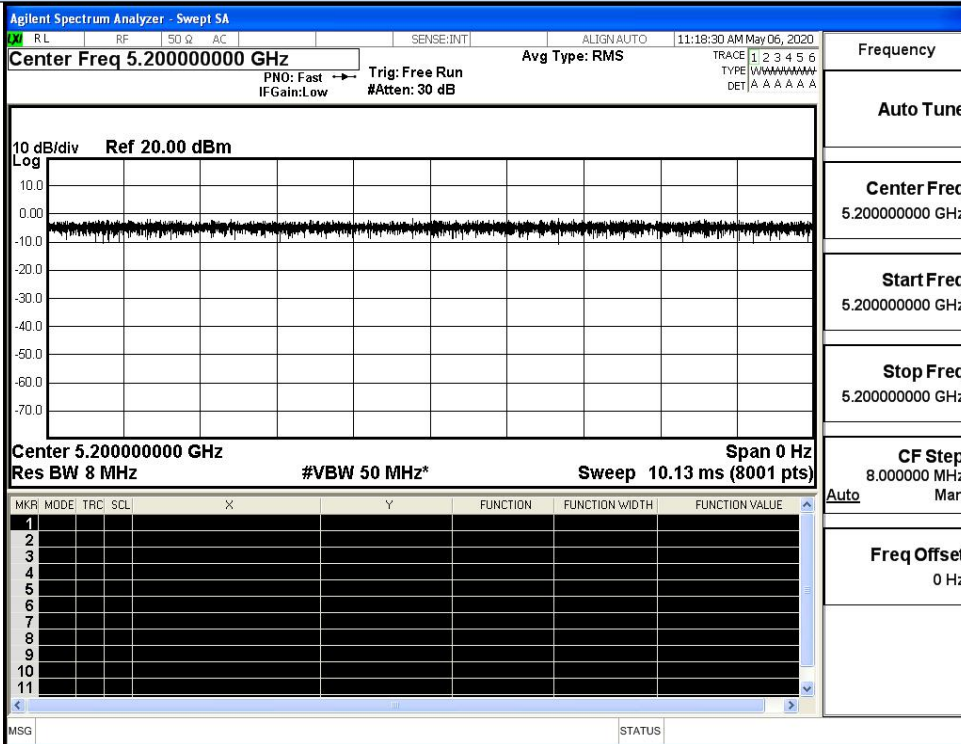
D.1 Duty Cycle

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

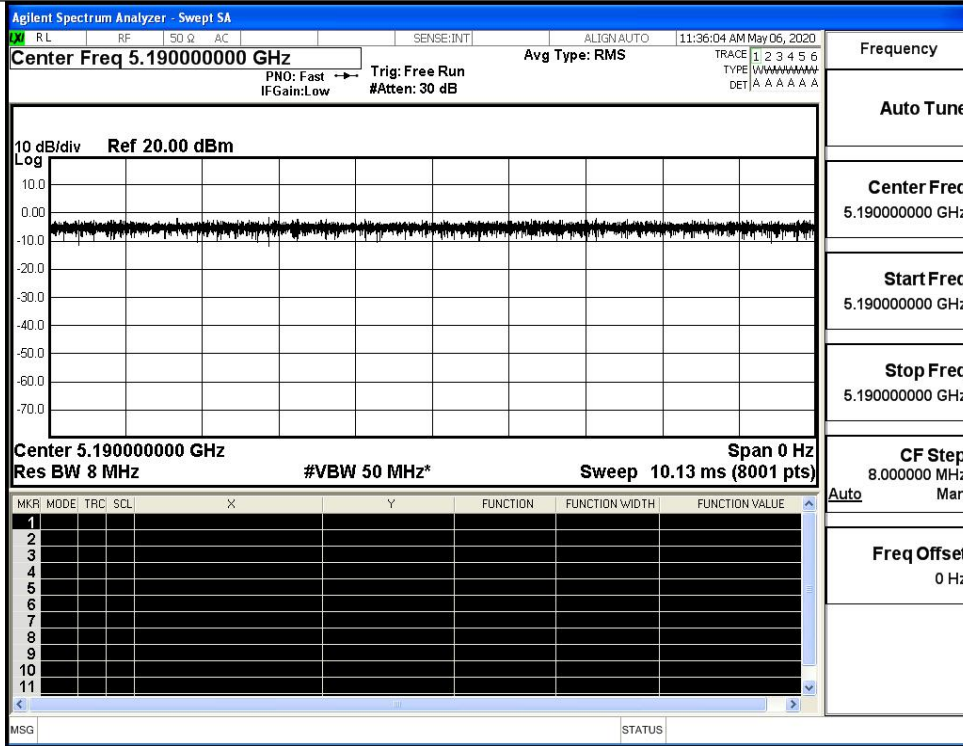
On Time and Duty Cycle



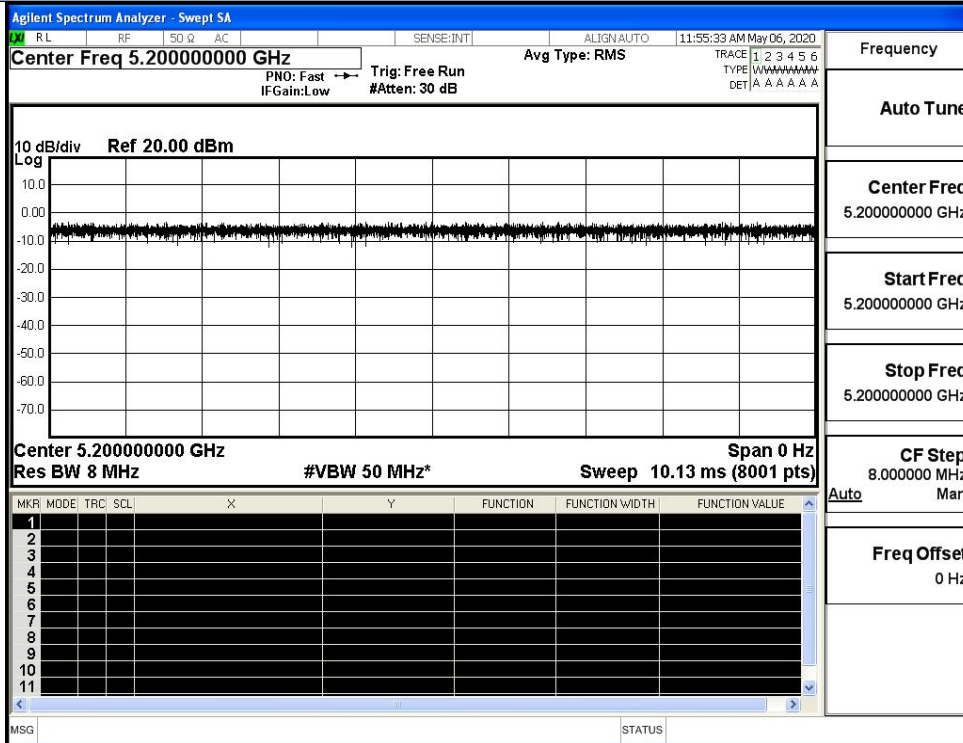
IEEE 802.11a



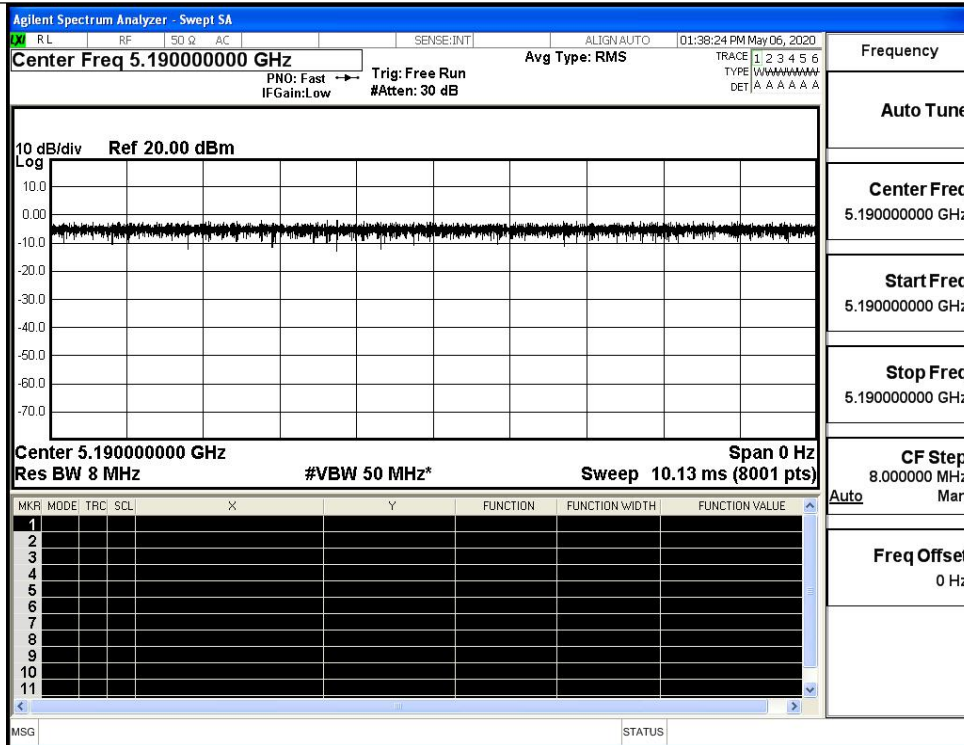
IEEE 802.11n HT20



IEEE 802.11n HT40



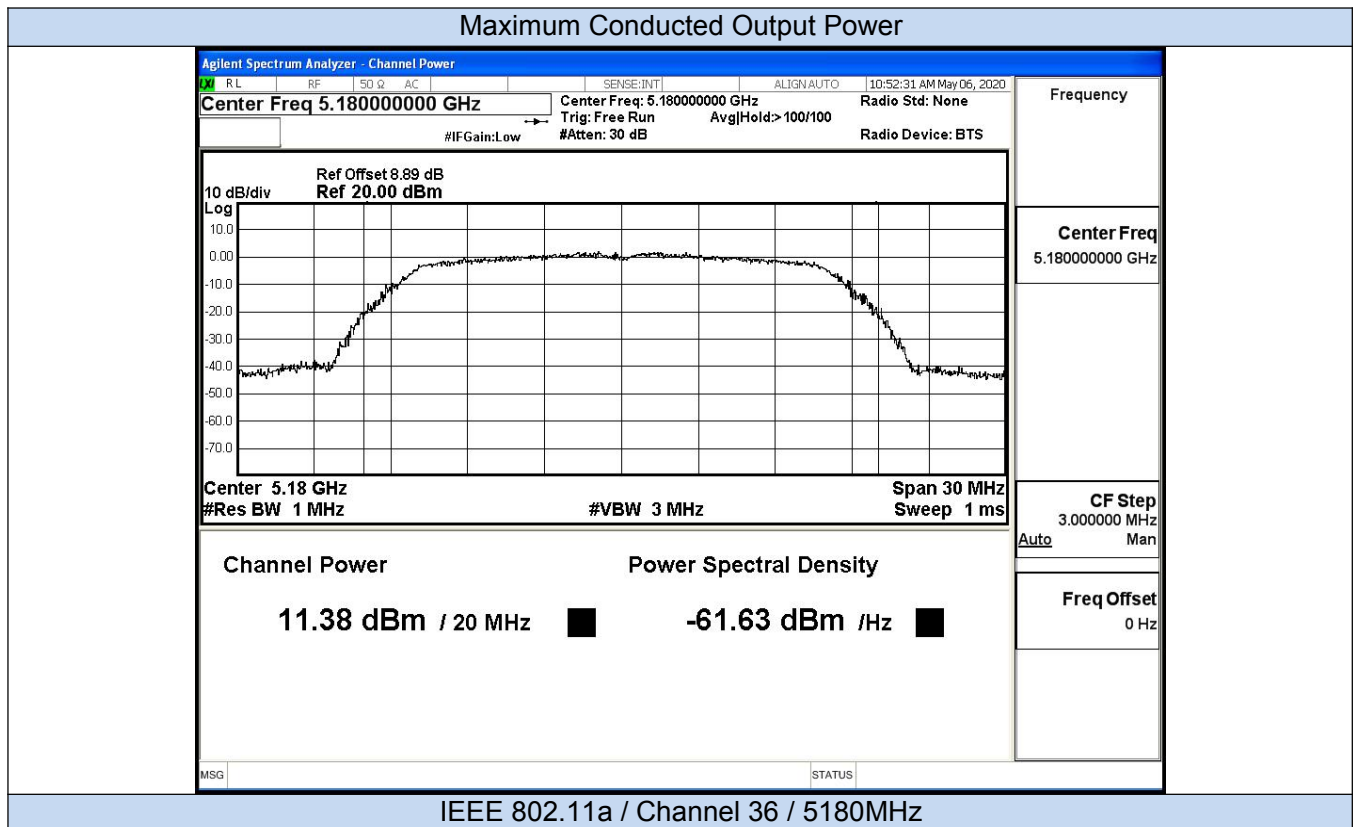
IEEE 802.11AC20

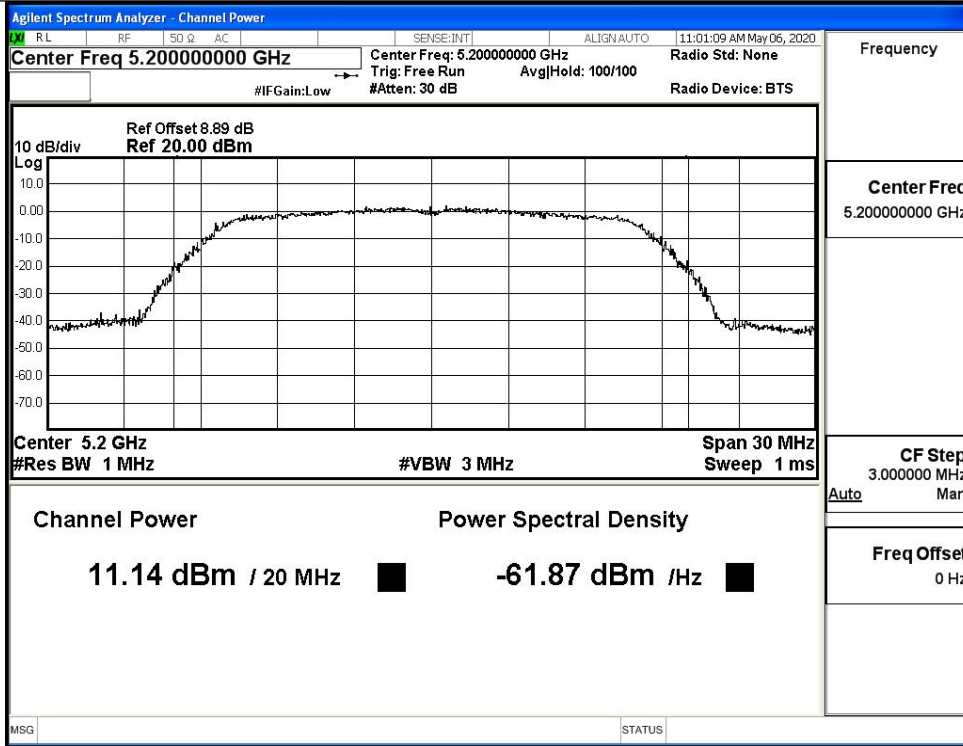


IEEE 802.11 AC40

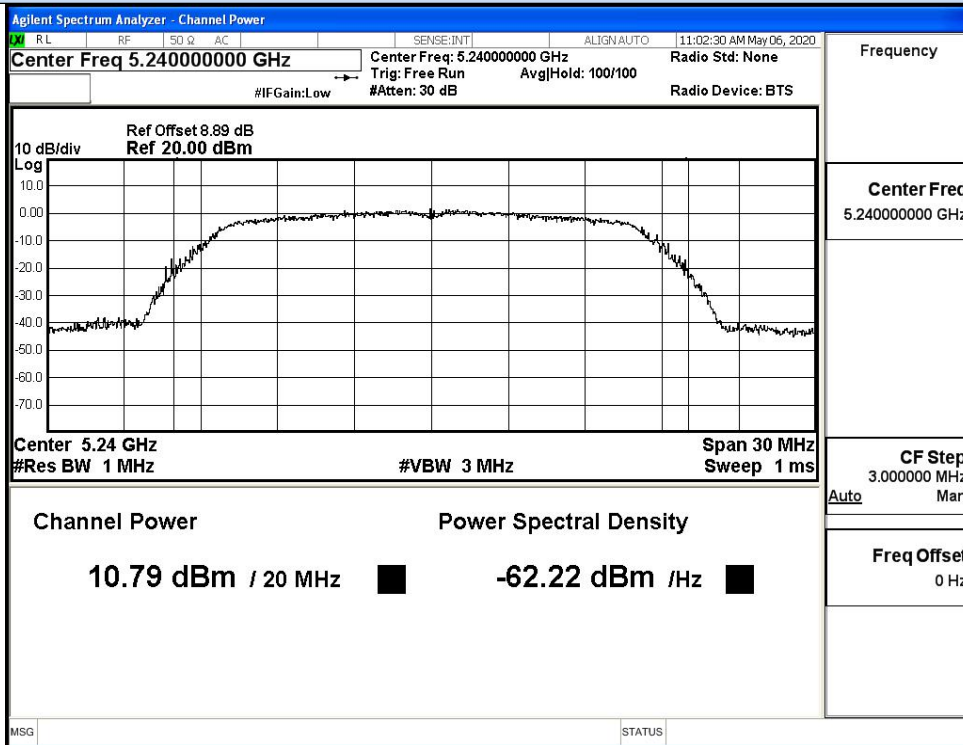
D.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)	Verdict
11A	36	5180	11.38	0	11.38	24	Pass
	40	5200	11.14	0	11.14		Pass
	48	5240	10.79	0	10.79		Pass
11N20 SISO	36	5180	11.27	0	11.27	24	Pass
	40	5200	11.25	0	11.25		Pass
	48	5240	12.16	0	12.16		Pass
11N40 SISO	38	5190	12.93	0	12.93	24	Pass
	46	5230	12.62	0	12.62		Pass
11AC20 SISO	36	5180	11.35	0	11.35	24	Pass
	40	5200	11.41	0	11.41		Pass
	48	5240	11.24	0	11.24		Pass
11AC40 SISO	38	5190	12.03	0	12.03	24	Pass
	46	5230	11.64	0	11.64		Pass



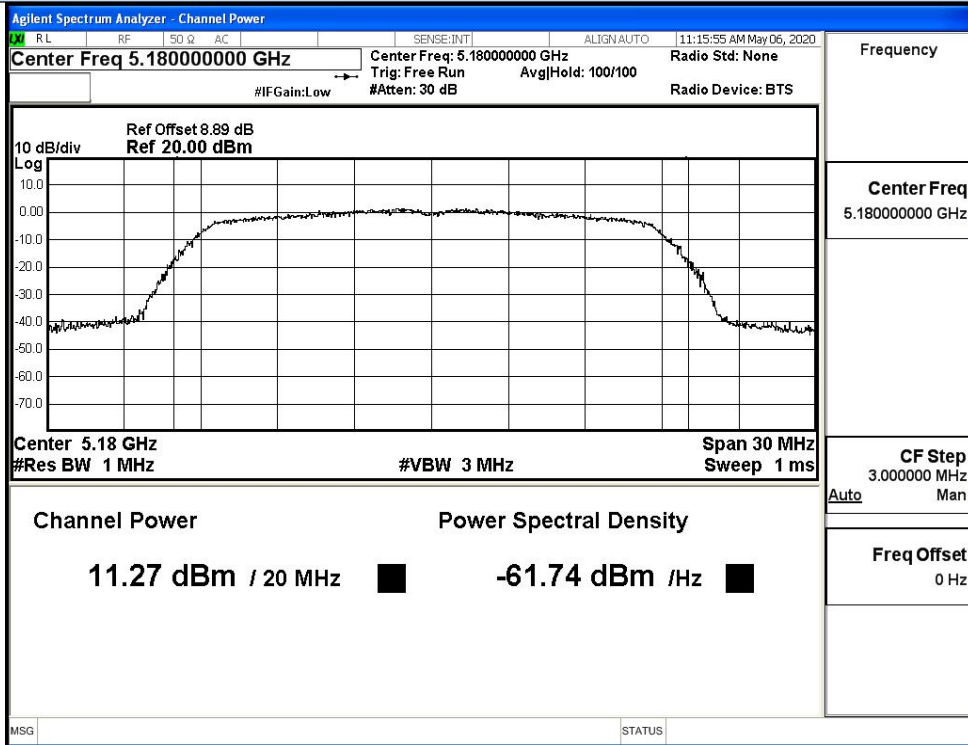


IEEE 802.11a / Channel 40 / 5200MHz

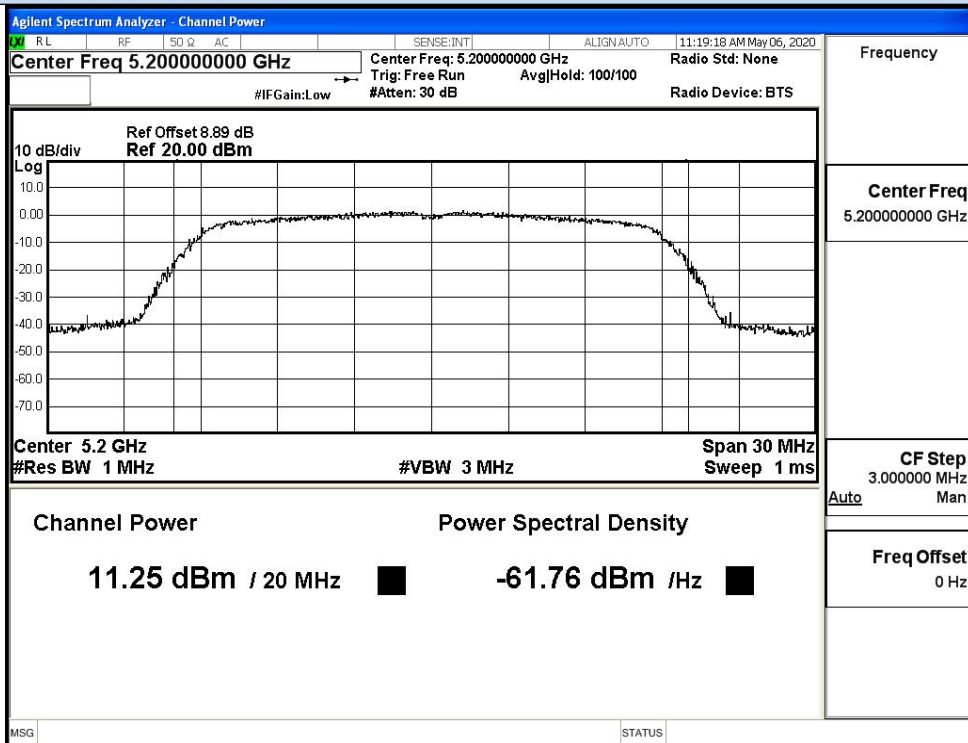


IEEE 802.11a / Channel 48 / 5240MHz

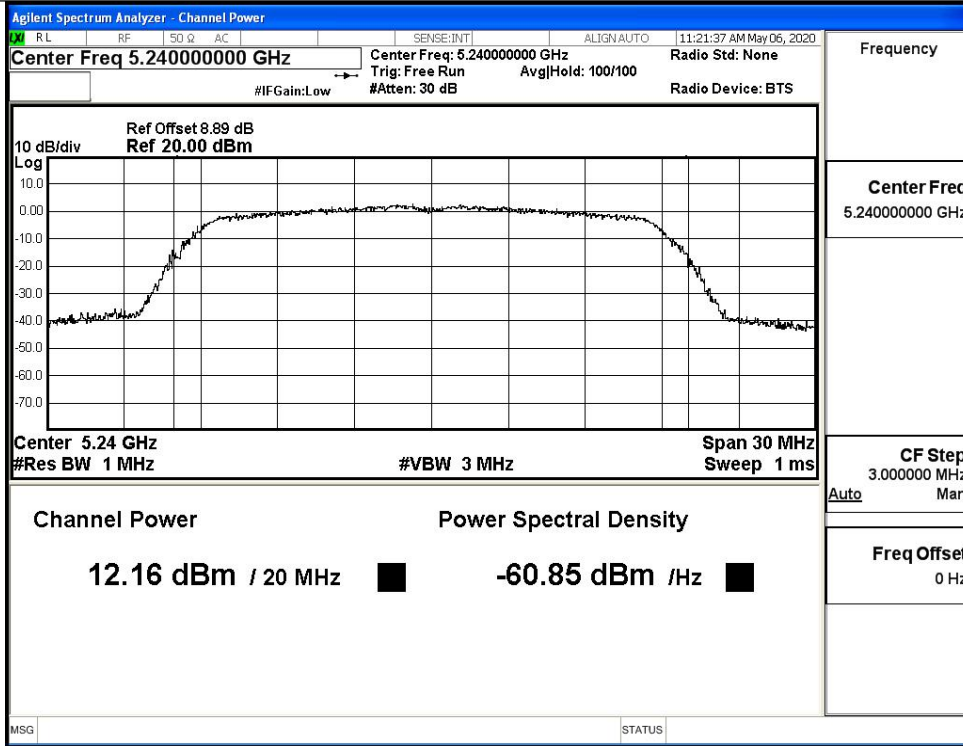
Maximum Conducted Output Power



IEEE 802.11n20 / Channel 36 / 5180MHz

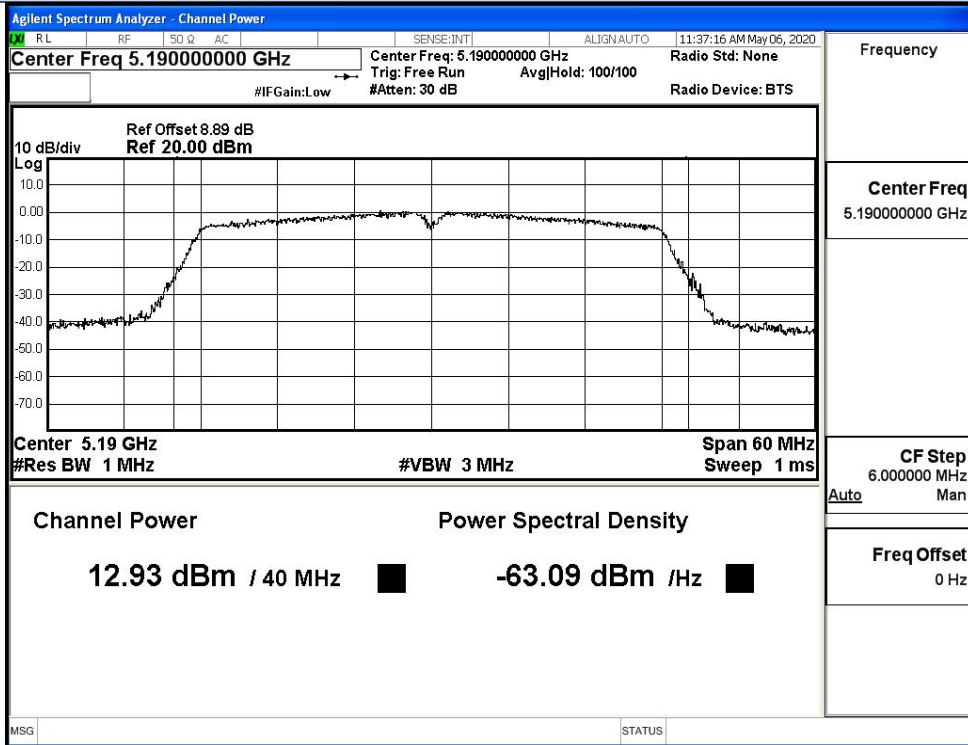


IEEE 802.11n20 / Channel 40 / 5200MHz

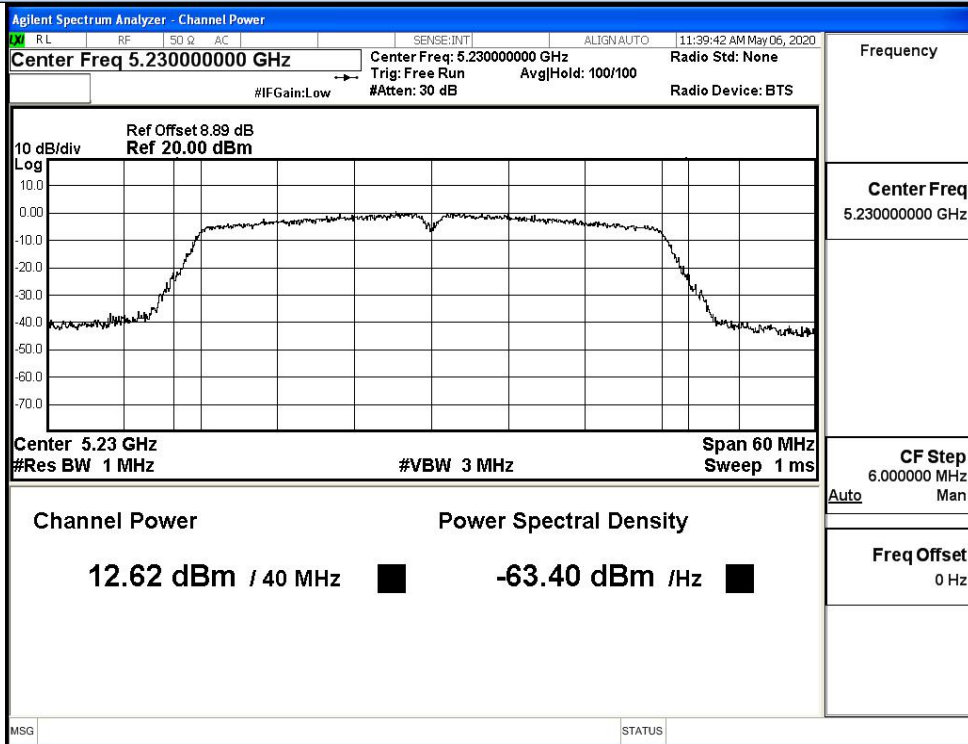


IEEE 802.11n20 / Channel 48 / 5240MHz

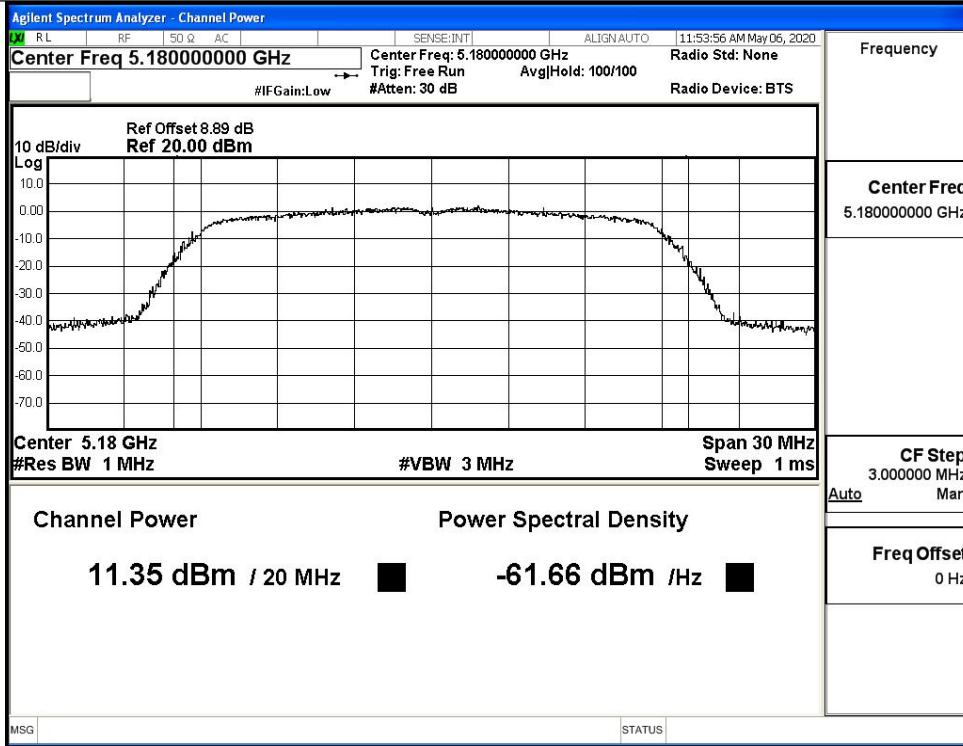
Maximum Conducted Output Power



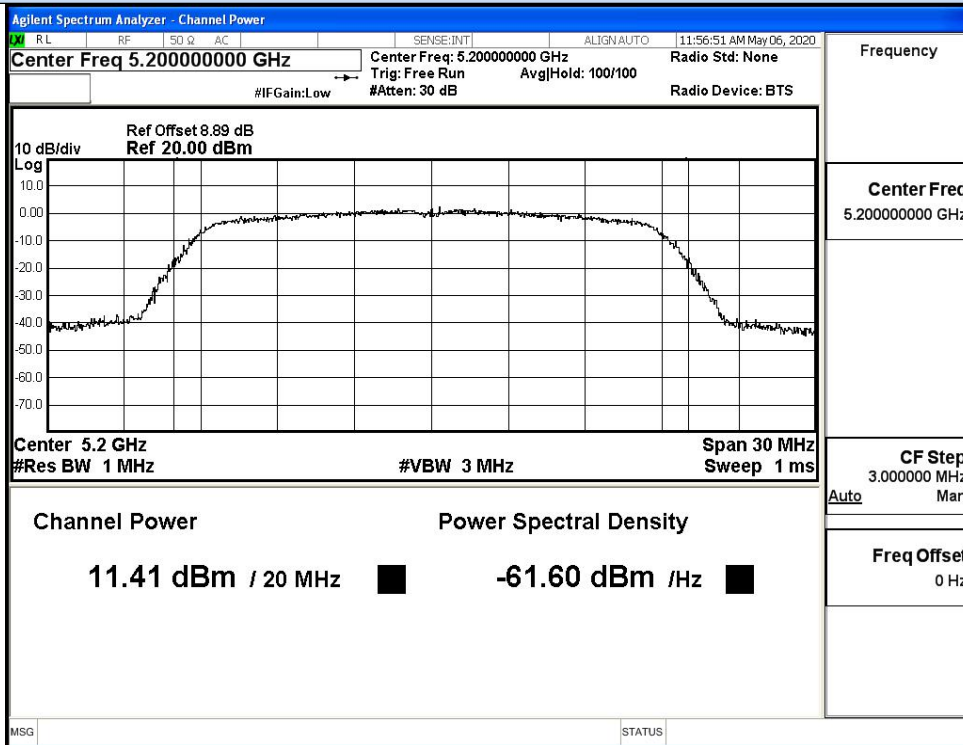
IEEE 802.11n40 / Channel 38 / 5190MHz



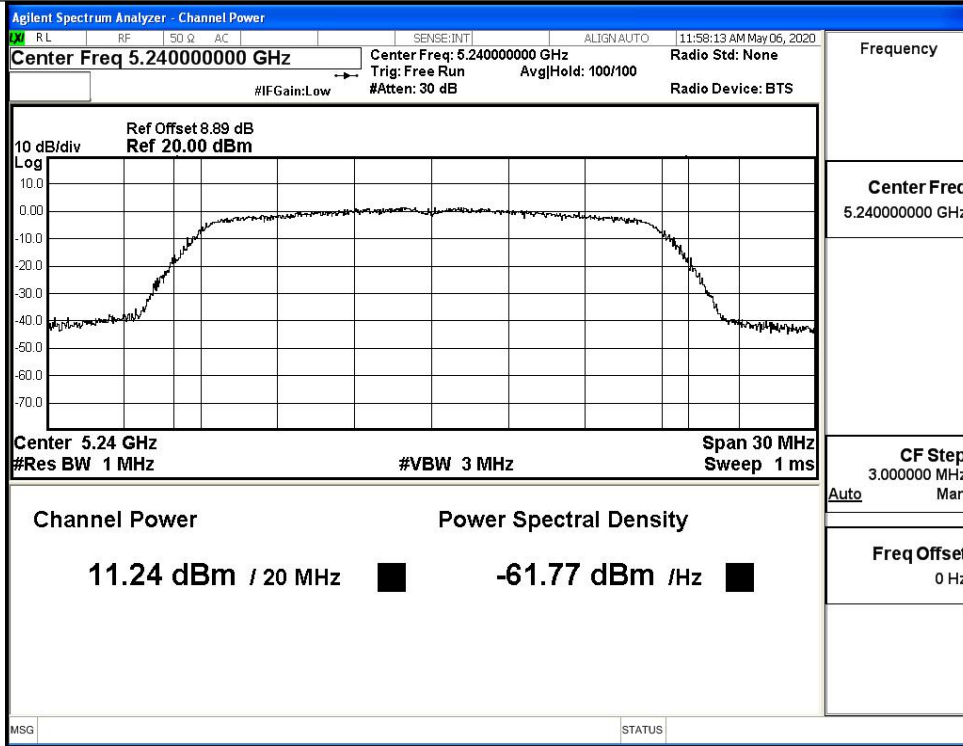
IEEE 802.11n40 / Channel 46 / 5230MHz



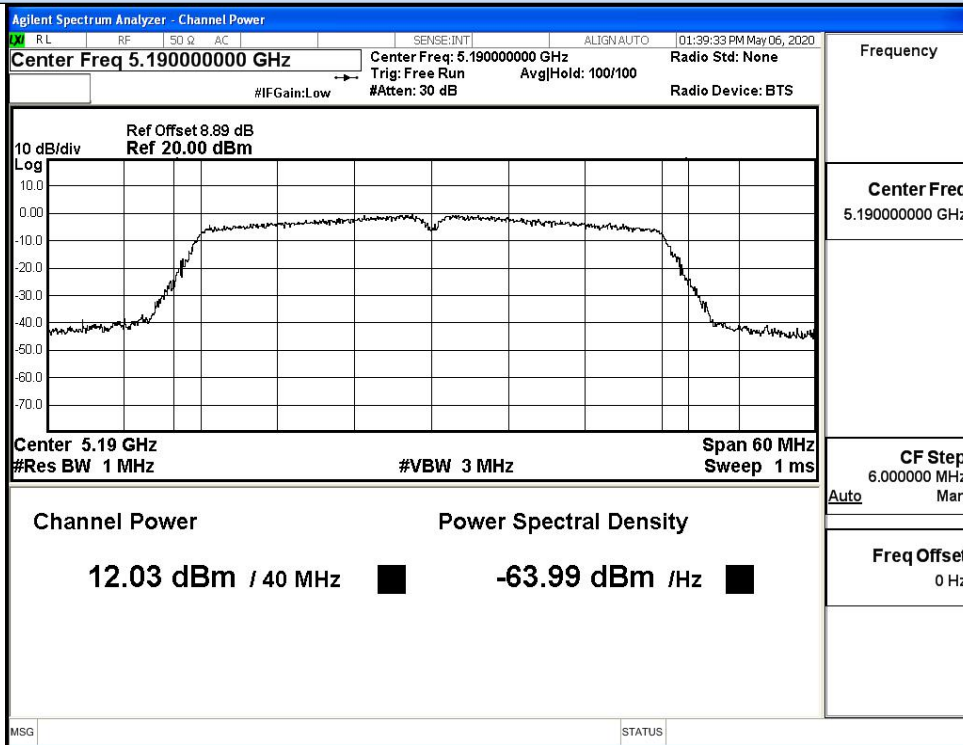
IEEE 802.11ac20 / Channel 36 / 5180MHz



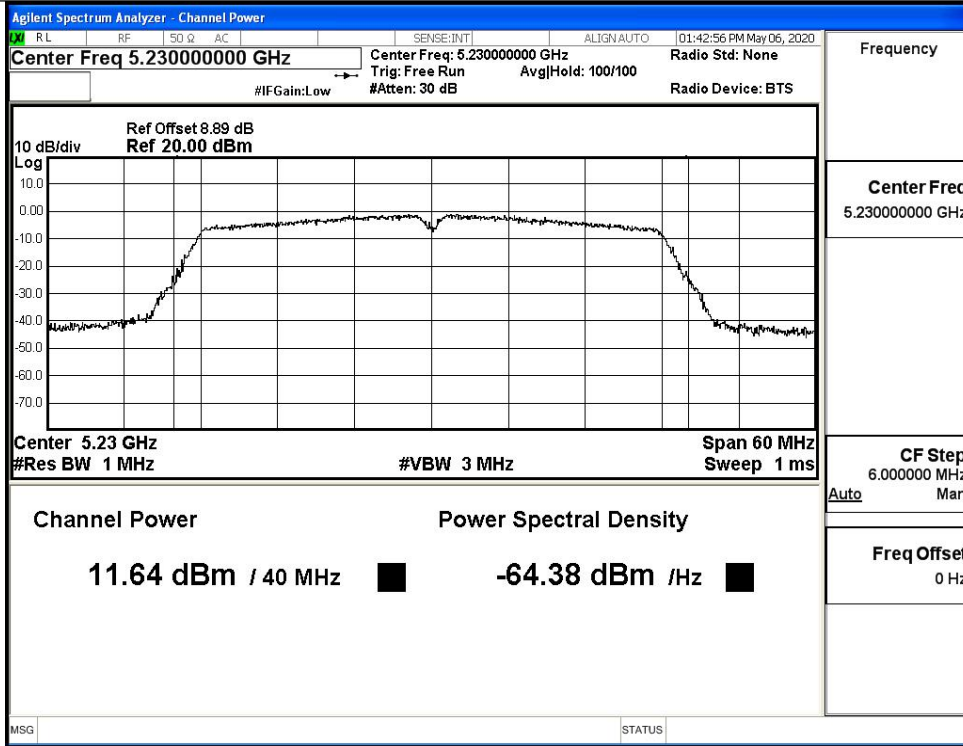
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



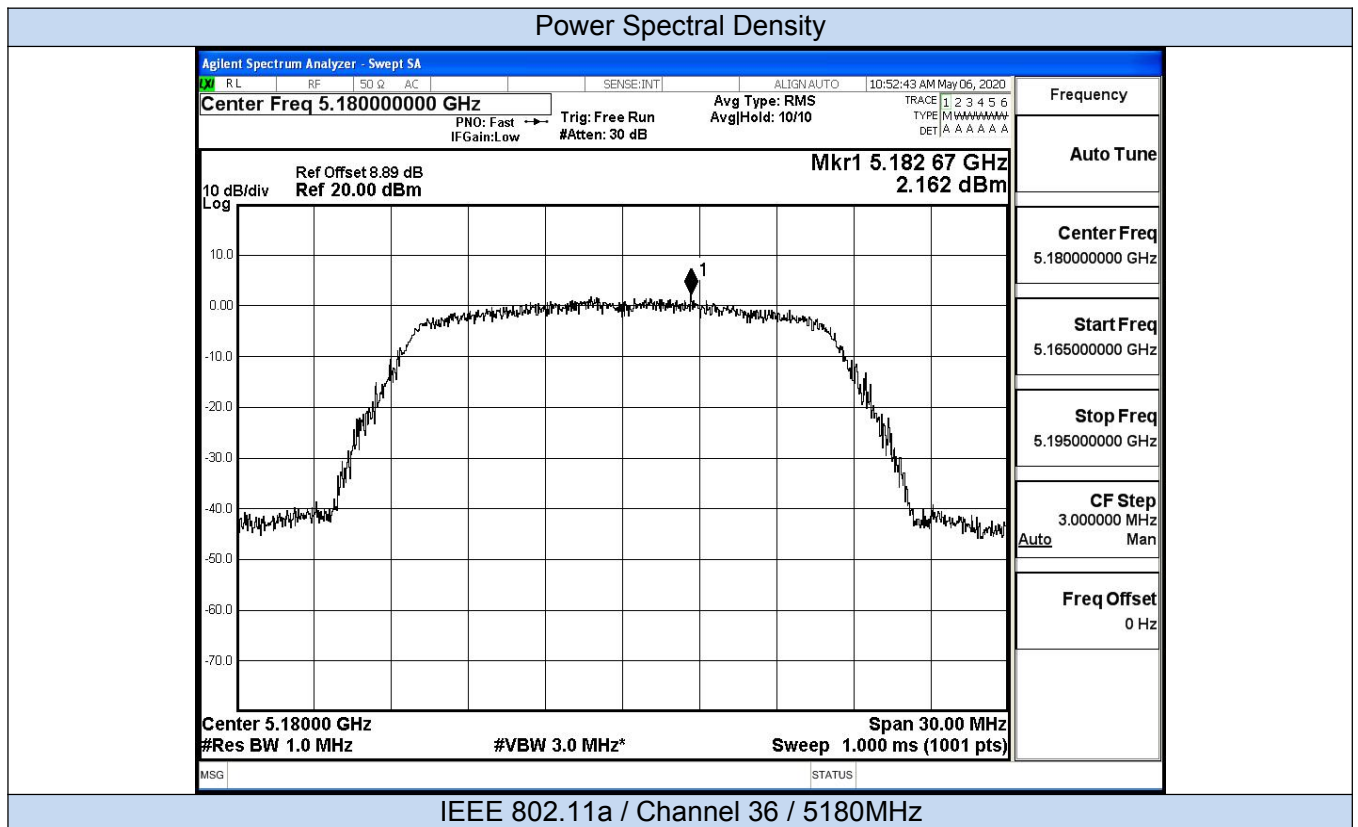
IEEE 802.11ac40 / Channel 38 / 5190MHz

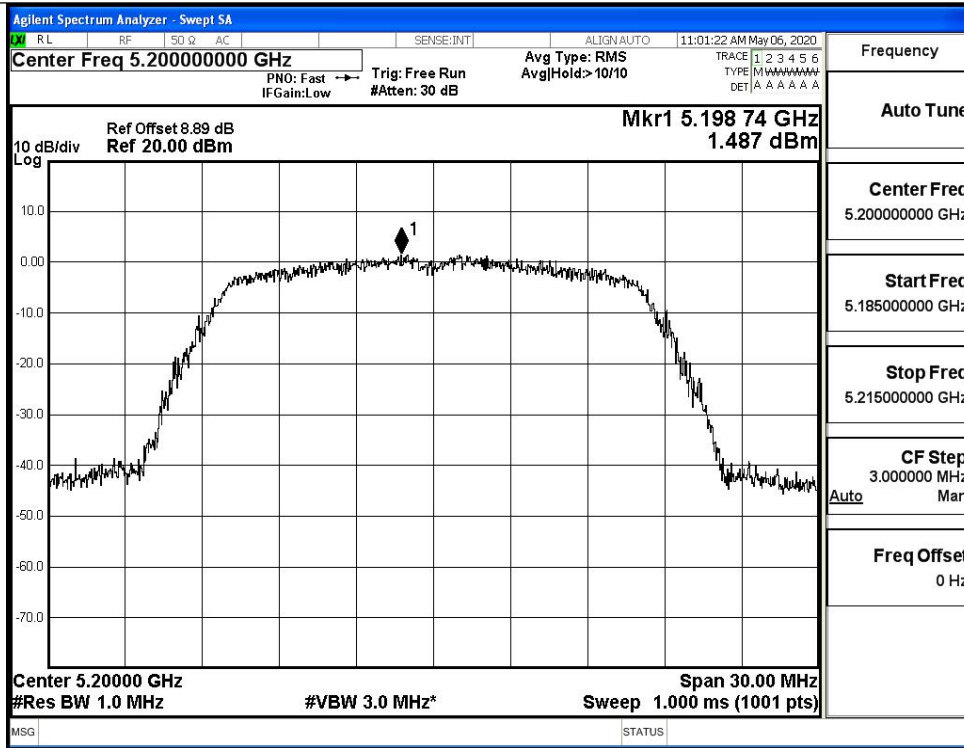


IEEE 802.11ac40 / Channel 46 / 5230MHz

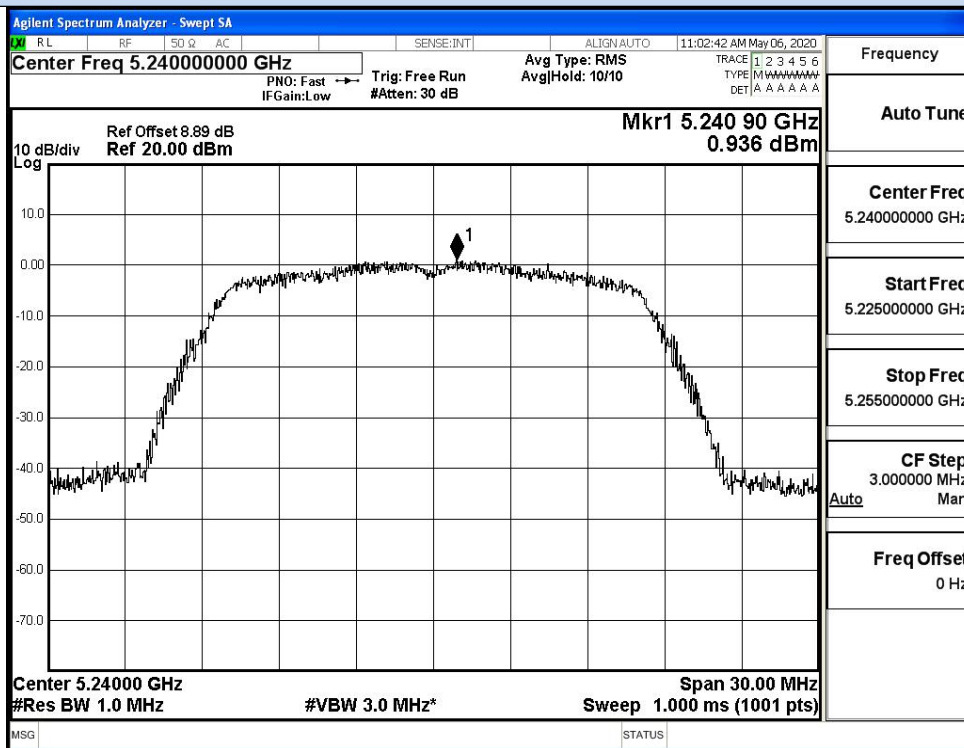
D.3 Power Spectral Density

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	2.16	0	2.16	11	Pass
	40	5200	1.49	0	1.49		Pass
	48	5240	0.94	0	0.94		Pass
11N20 SISO	36	5180	1.64	0	1.64	11	Pass
	40	5200	1.79	0	1.79		Pass
	48	5240	2.40	0	2.40		Pass
11N40 SISO	38	5190	0.06	0	0.06	11	Pass
	46	5230	-0.27	0	-0.27		Pass
11AC20 SISO	36	5180	1.57	0	1.57	11	Pass
	40	5200	1.97	0	1.97		Pass
	48	5240	2.08	0	2.08		Pass
11AC40 SISO	38	5190	-0.82	0	-0.82	11	Pass
	46	5230	-1.27	0	-1.27		Pass



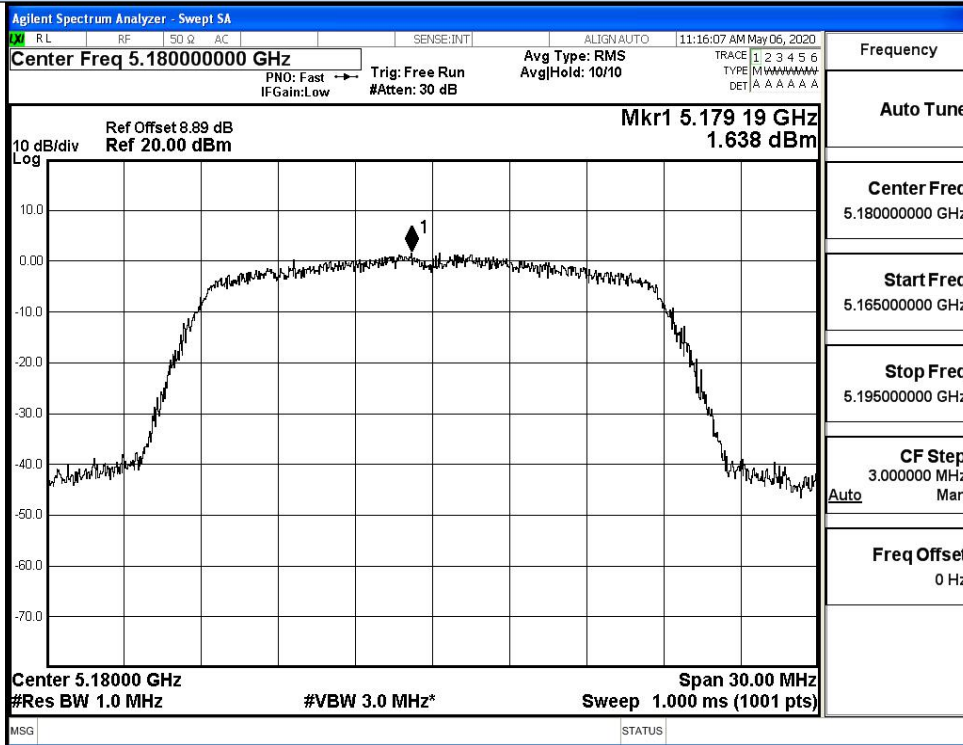


IEEE 802.11na / Channel 40 / 5200MHz

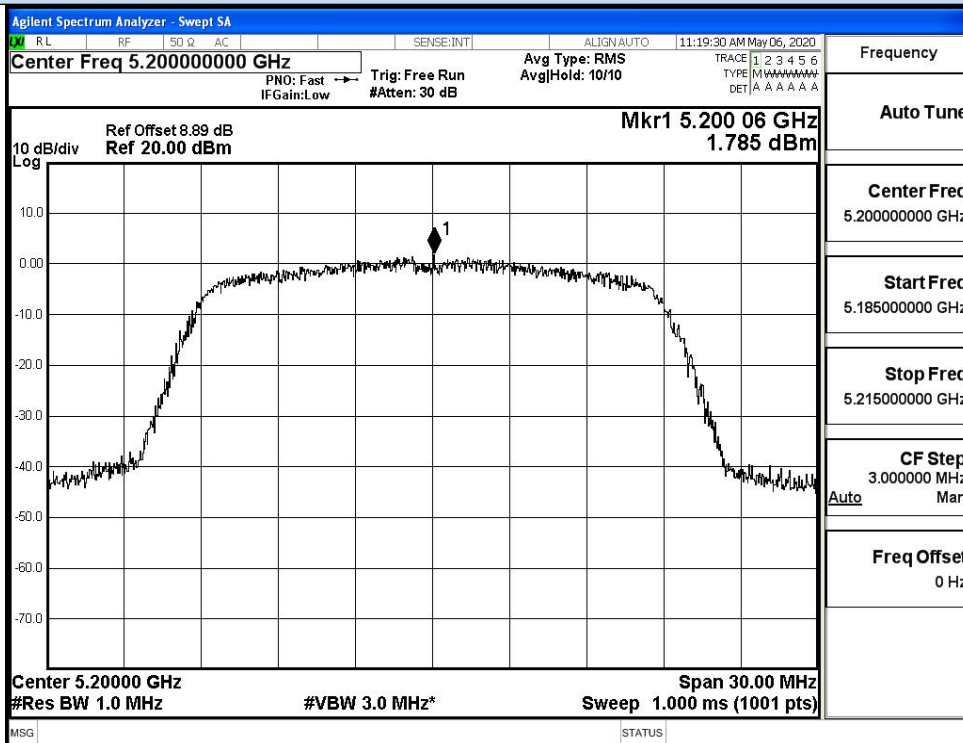


IEEE 802.11na / Channel 48 / 5240MHz

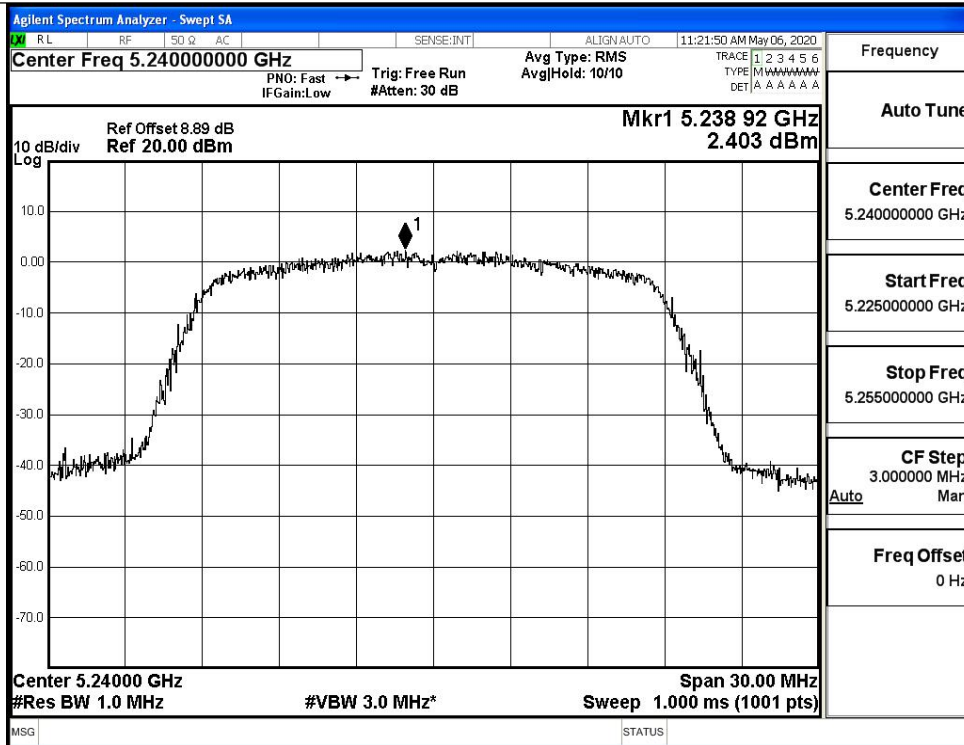
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

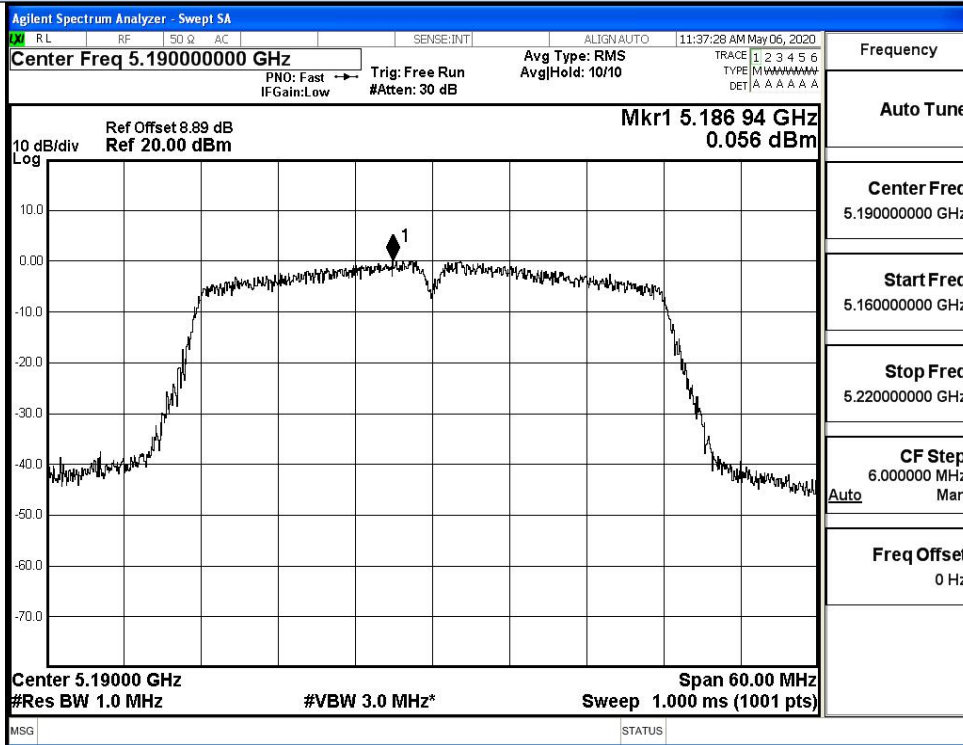


IEEE 802.11n20 / Channel 40 / 5200MHz

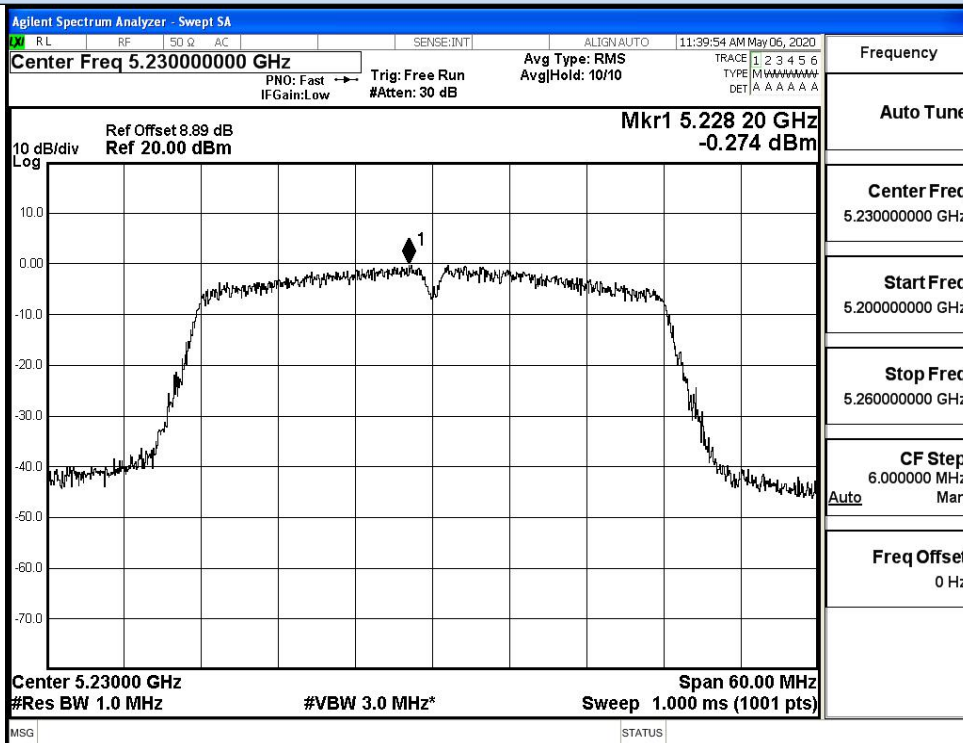


IEEE 802.11n20 / Channel 48 / 5240MHz

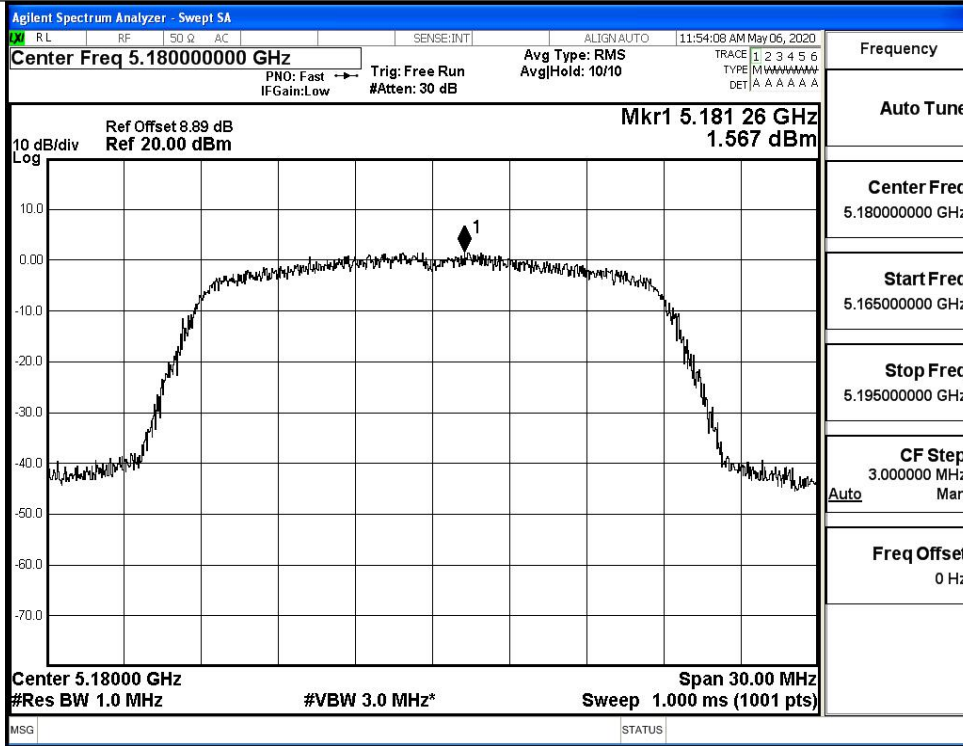
Power Spectral Density



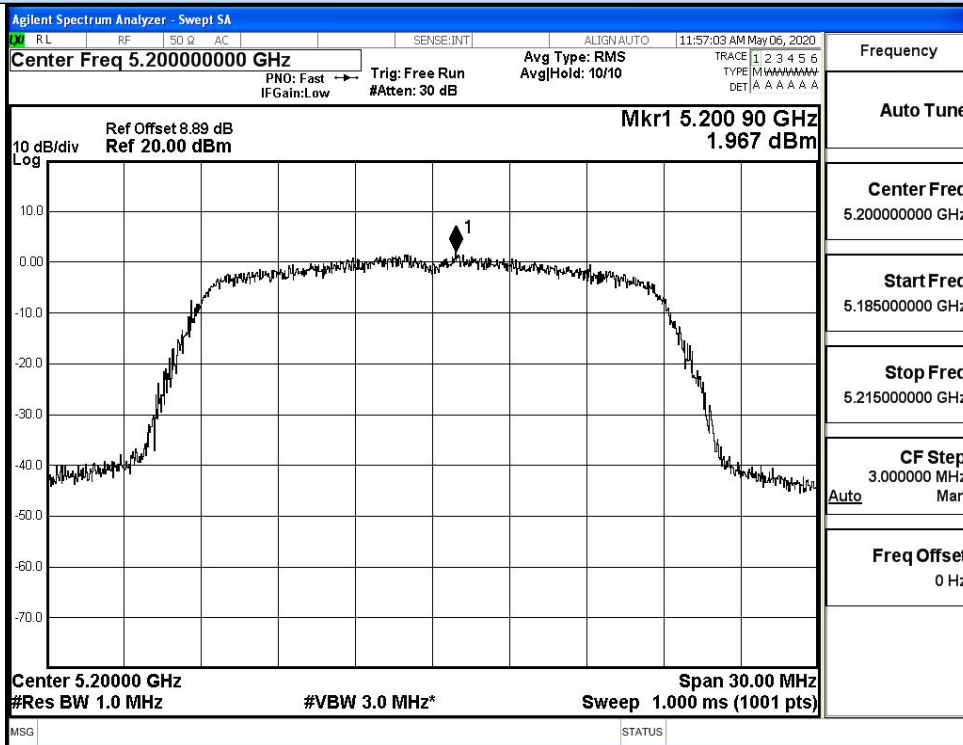
IEEE 802.11n40 / Channel 38 / 5190MHz



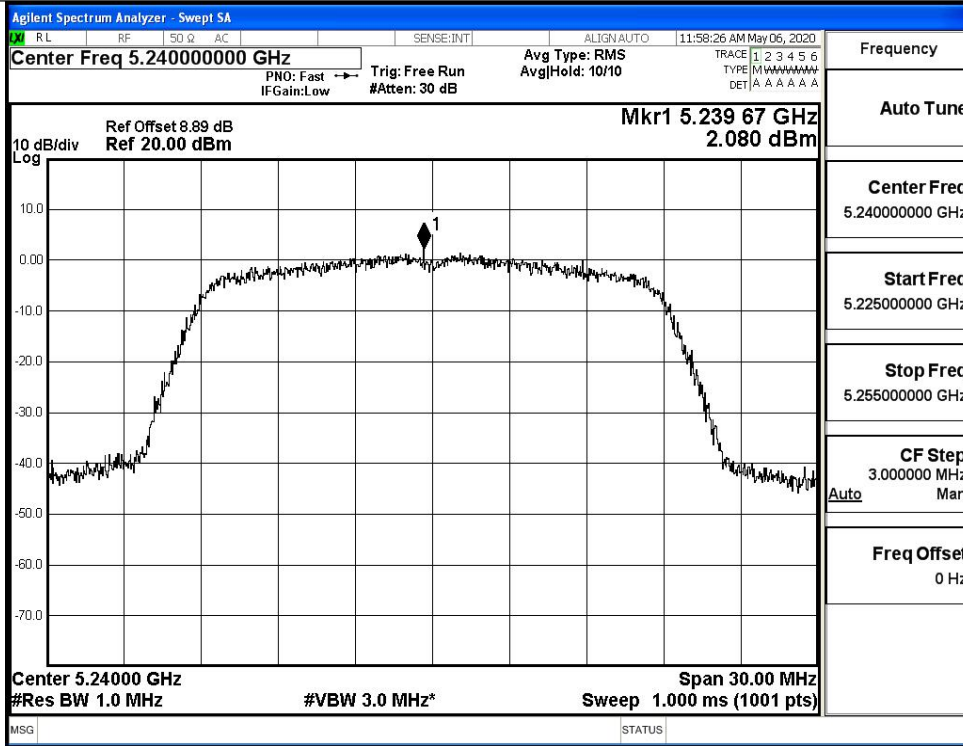
IEEE 802.11n40 / Channel 46 / 5230MHz



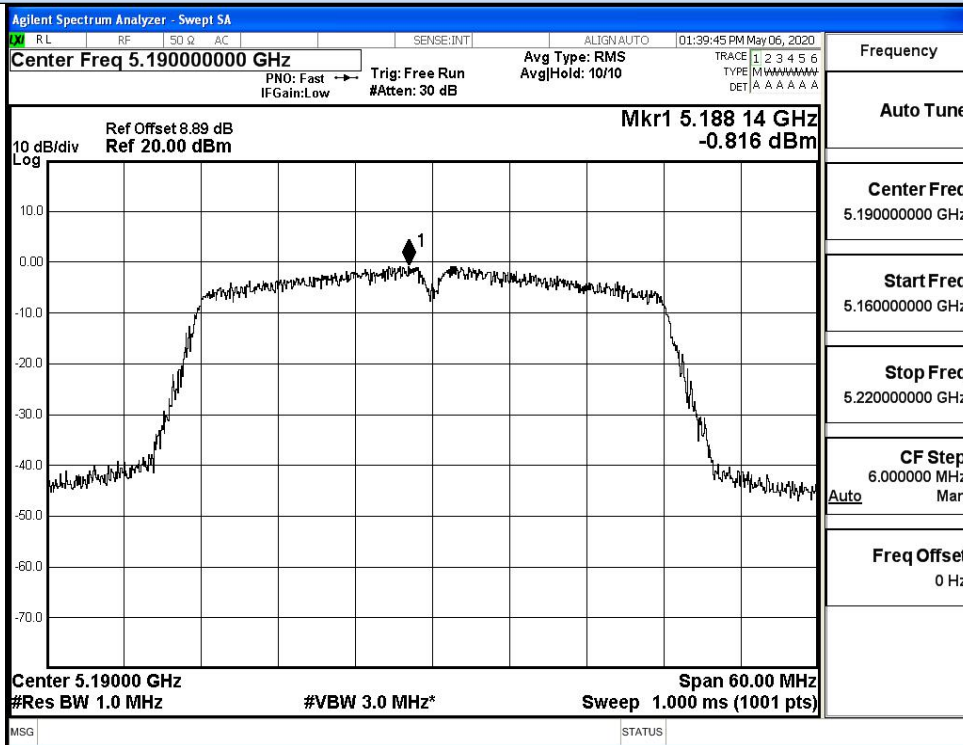
IEEE 802.11ac20 / Channel 36 / 5180MHz



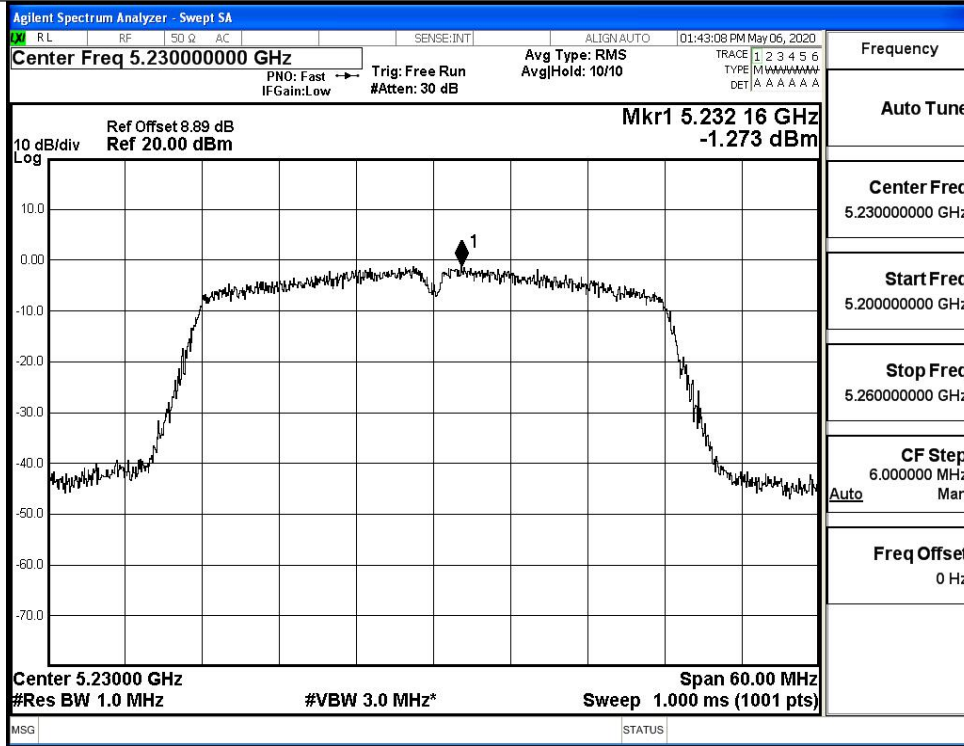
IEEE 802.11ac20 / Channel 40 / 5200MHz



IEEE 802.11ac20 / Channel 48 / 5240MHz



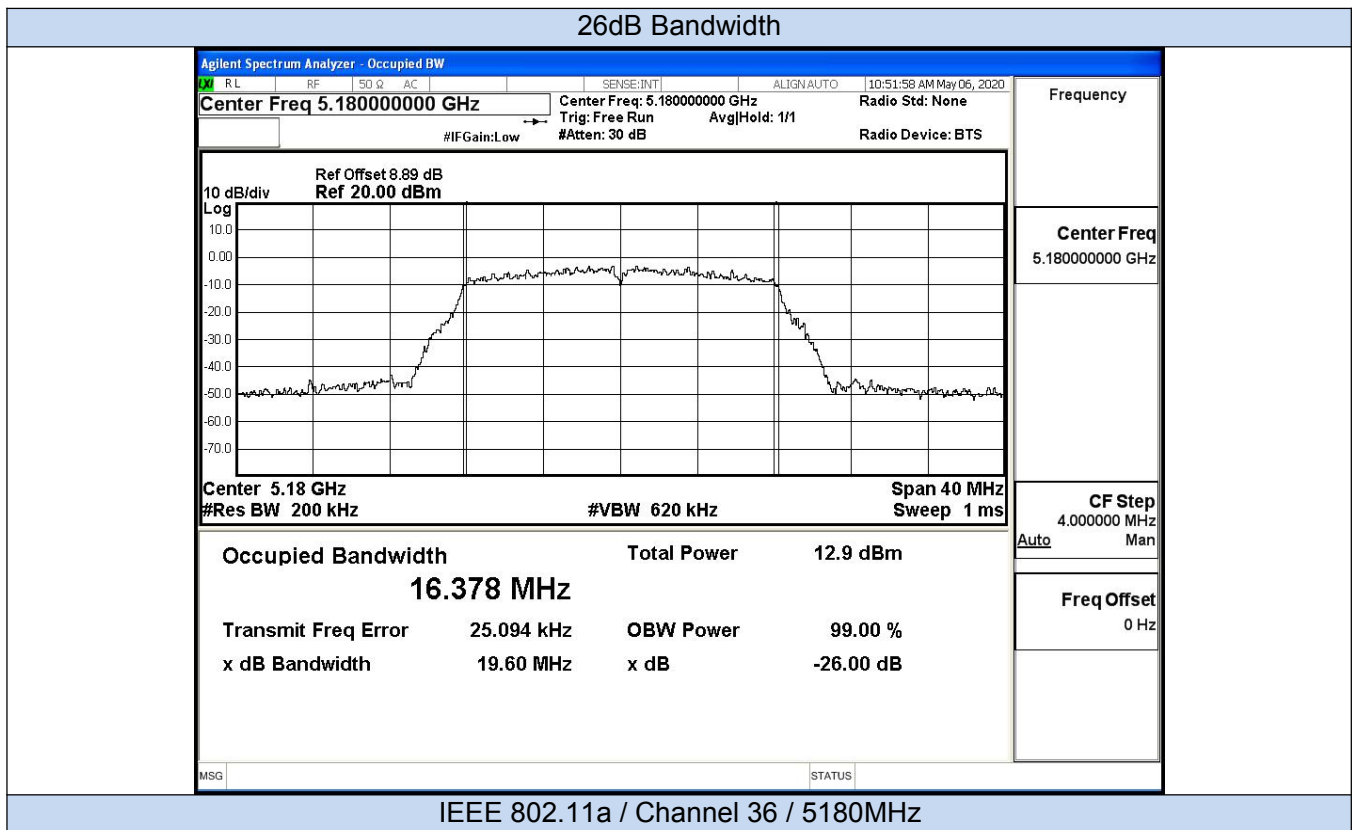
IEEE 802.11ac40 / Channel 38 / 5190MHz

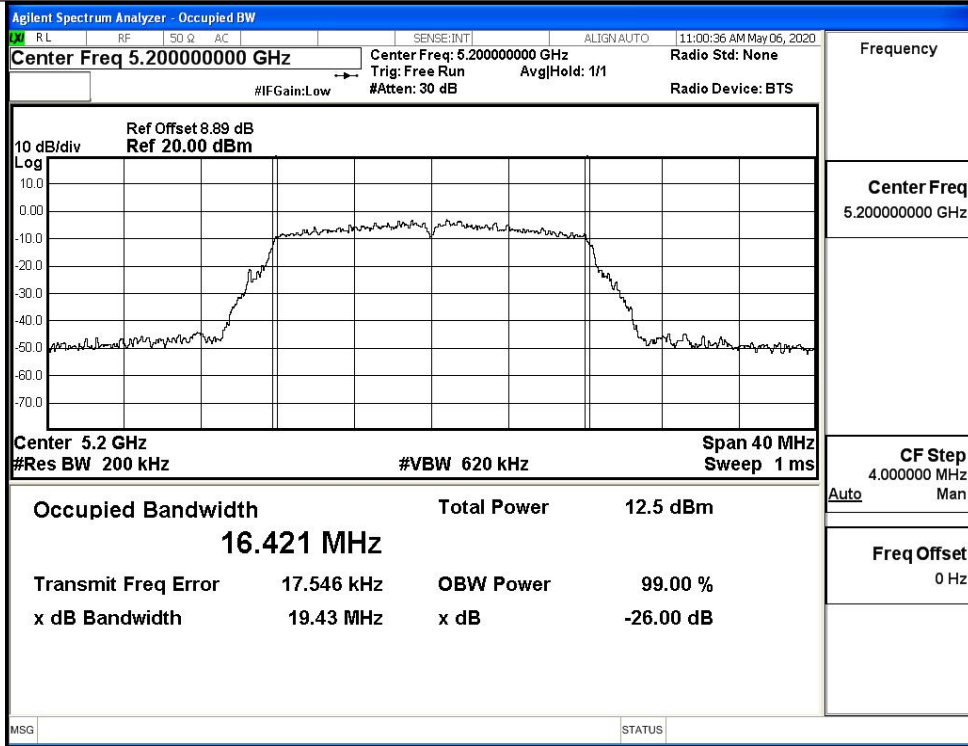


IEEE 802.11ac40 / Channel 46 / 5230MHz

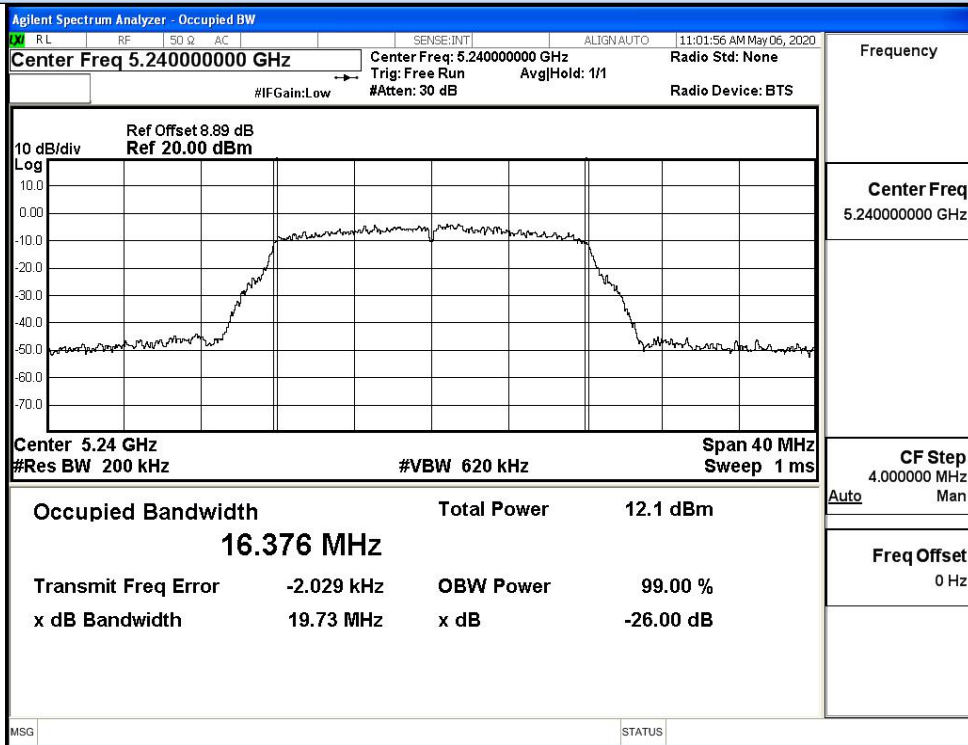
D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	19.60	No Limit	Pass
	40	5200	19.43		Pass
	48	5240	19.73		Pass
11N20 SISO	36	5180	19.81	No Limit	Pass
	40	5200	20.08		Pass
	48	5240	19.98		Pass
11N40 SISO	38	5190	39.77	No Limit	Pass
	46	5230	39.94		Pass
11AC20 SISO	36	5180	19.96	No Limi	Pass
	40	5200	19.81		Pass
	48	5240	20.16		Pass
11AC40 SISO	38	5190	40.05	No Limi	Pass
	46	5230	39.90		Pass





IEEE 802.11a / Channel 40 / 5200MHz



IEEE 802.11a / Channel 48 / 5240MHz