

Appendix E

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Two in one convertible notebook

Trade Mark: YUKO

Test Model: A1162

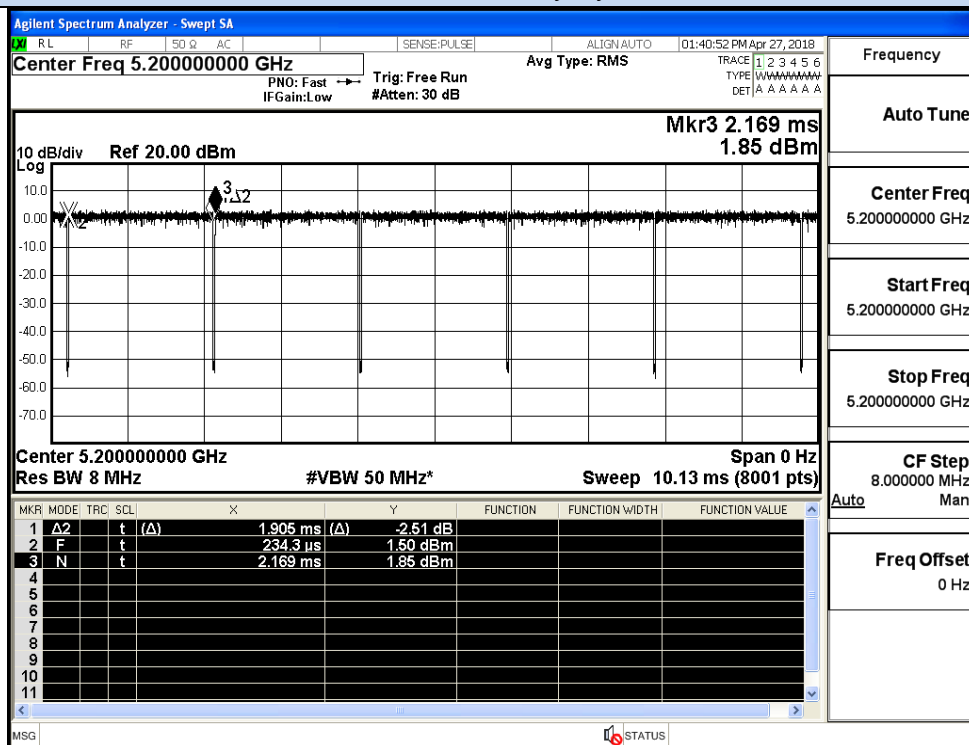
Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Jayden.Zhuo

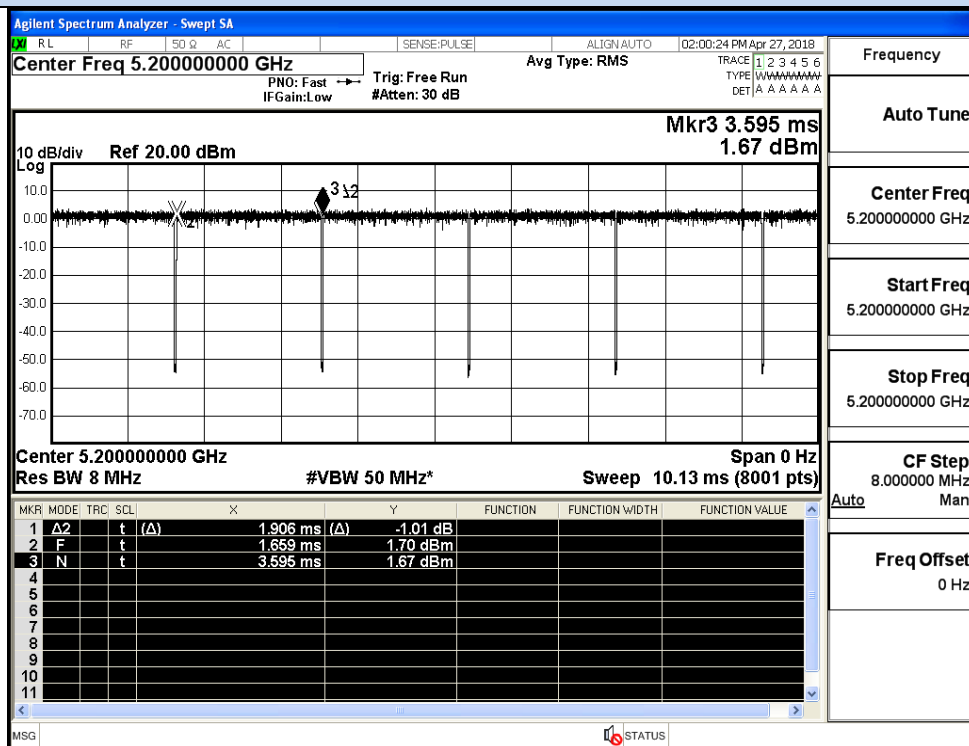
E.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	98.49	0.07	0.01
11N20 SISO	5200	98.49	0.07	0.01
11N40 SISO	5190	96.97	0.13	0.01
11AC20 SISO	5200	98.50	0.07	0.01
11AC40 SISO	5190	97.00	0.13	0.01
11AC80 SISO	5210	93.44	0.29	0.01

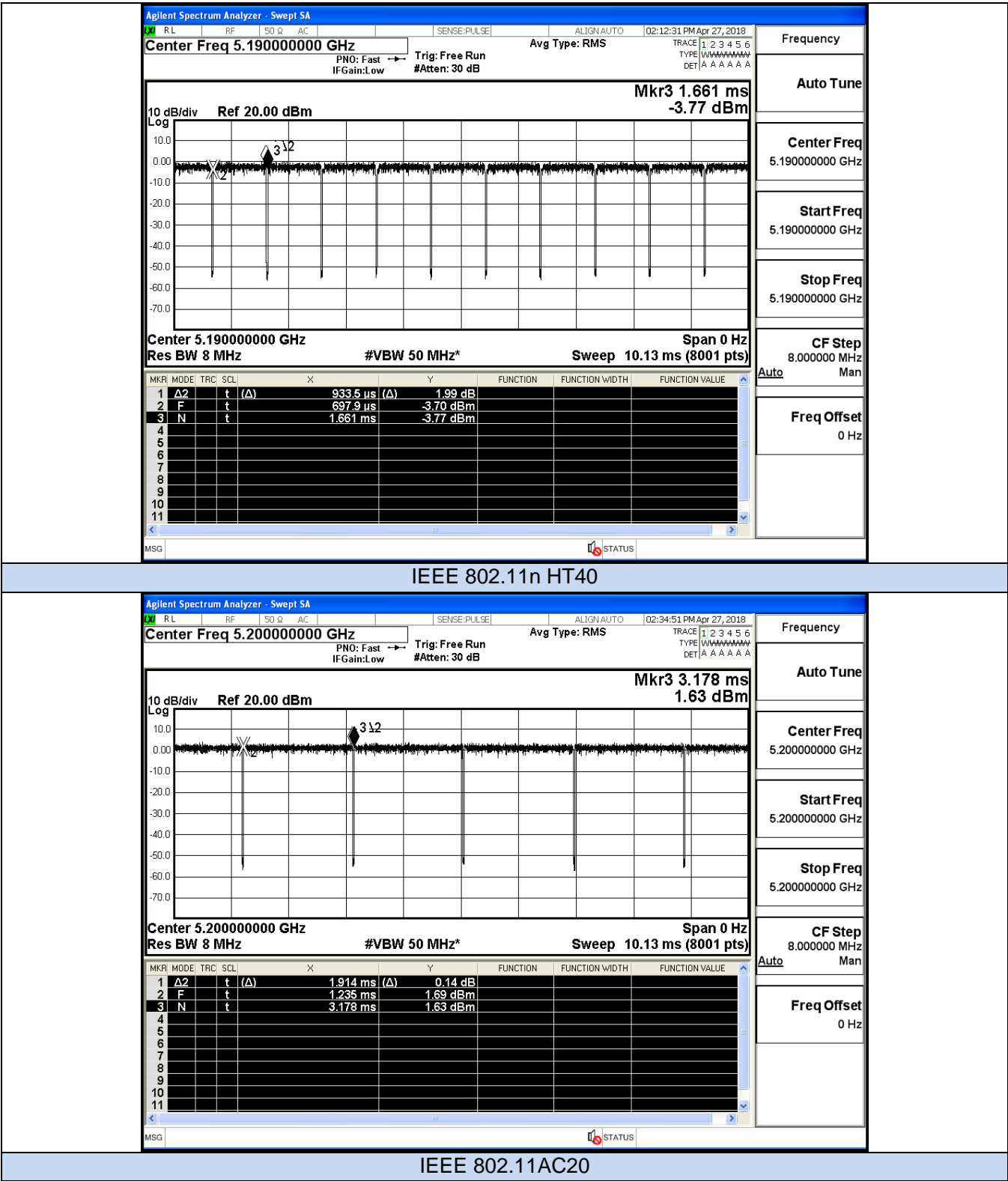
On Time and Duty Cycle

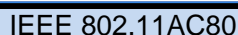
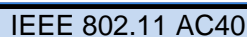


IEEE 802.11a



IEEE 802.11n HT20



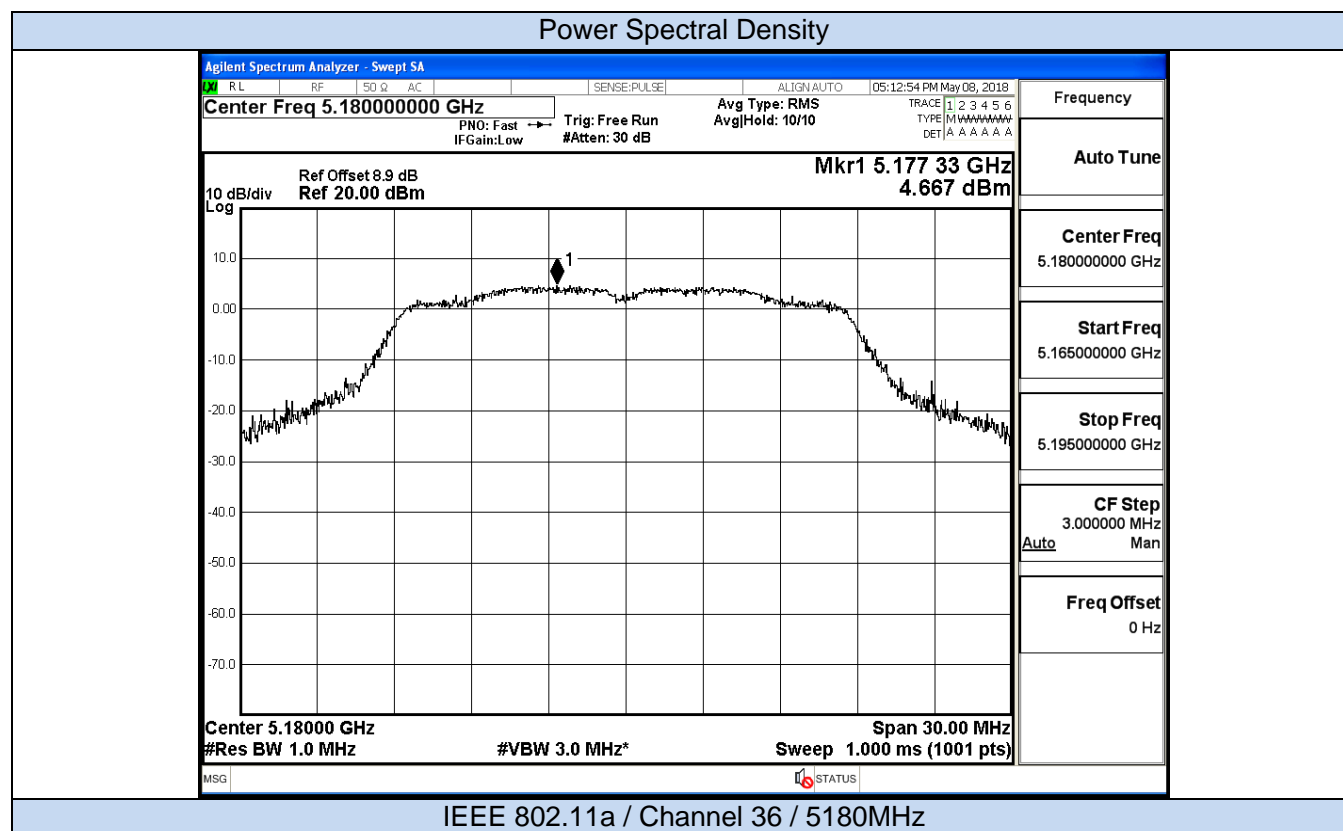


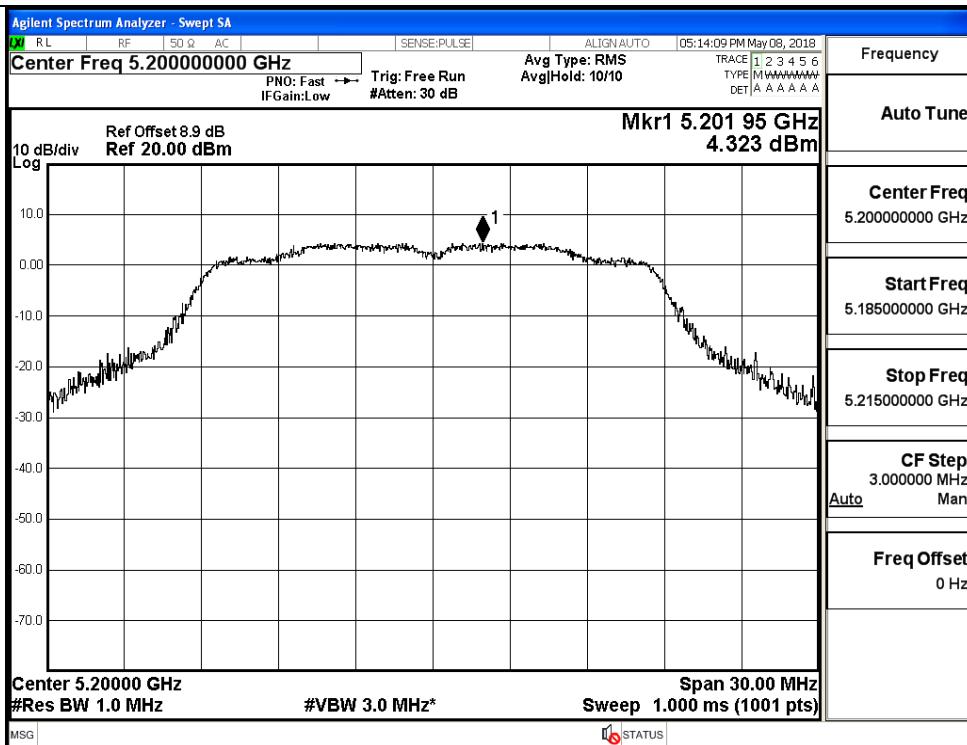
E.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	13.94	0.07	14.01	24	Pass
	40	5200	13.87	0.07	13.94		Pass
	48	5240	13.38	0.07	13.45		Pass
11N20 SISO	36	5180	13.78	0.07	13.85	24	Pass
	40	5200	13.78	0.07	13.85		Pass
	48	5240	13.85	0.07	13.92		Pass
11N40 SISO	38	5190	13.84	0.13	13.97	24	Pass
	46	5230	13.87	0.13	14.00		Pass
11AC20 SISO	36	5180	13.47	0.07	13.54	24	Pass
	40	5200	13.80	0.07	13.87		Pass
	48	5240	13.90	0.07	13.97		Pass
11AC40 SISO	38	5190	13.85	0.13	13.98	24	Pass
	46	5230	13.84	0.13	13.97		Pass
11AC80 SISO	42	5210	12.09	0.29	12.38	24	Pass

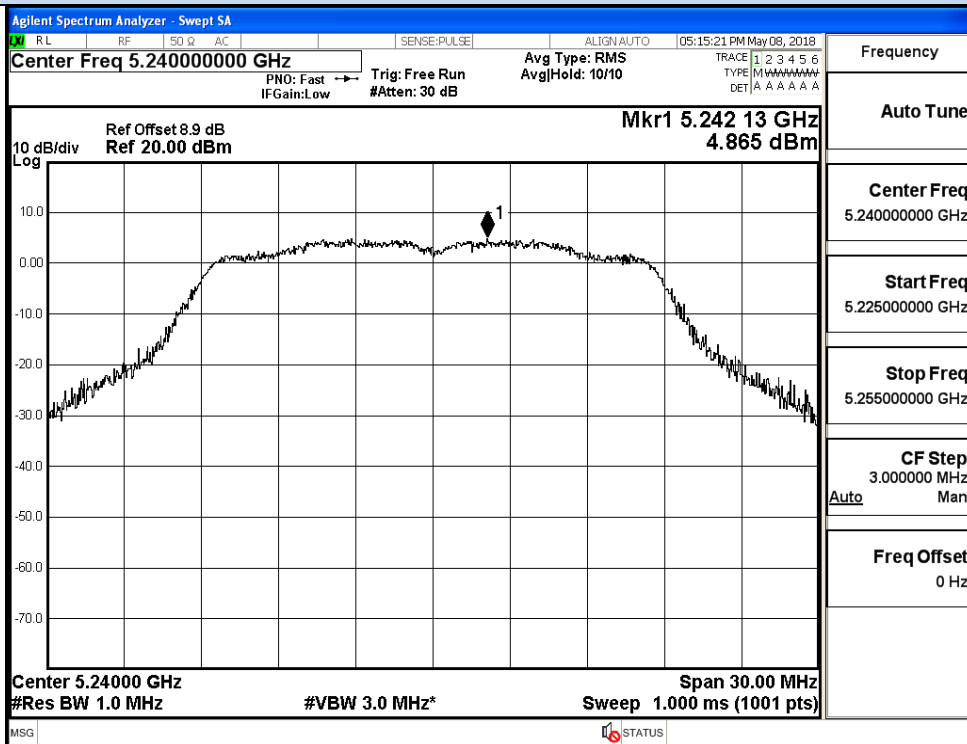
E.3 Power Spectral Density

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	4.67	0.07	4.74	11	Pass
	40	5200	4.32	0.07	4.39		Pass
	48	5240	4.87	0.07	4.94		Pass
11N20 SISO	36	5180	5.48	0.07	5.55	11	Pass
	40	5200	4.56	0.07	4.63		Pass
	48	5240	4.70	0.07	4.77		Pass
11N40 SISO	38	5190	1.95	0.13	2.08	11	Pass
	46	5230	1.50	0.13	1.63		Pass
11AC20 SISO	36	5180	4.77	0.07	4.84	11	Pass
	40	5200	5.00	0.07	5.07		Pass
	48	5240	5.00	0.07	5.07		Pass
11AC40 SISO	38	5190	1.80	0.13	1.93	11	Pass
	46	5230	1.56	0.13	1.69		Pass
11AC80 SISO	42	5210	-1.31	0.29	-1.02	11	Pass

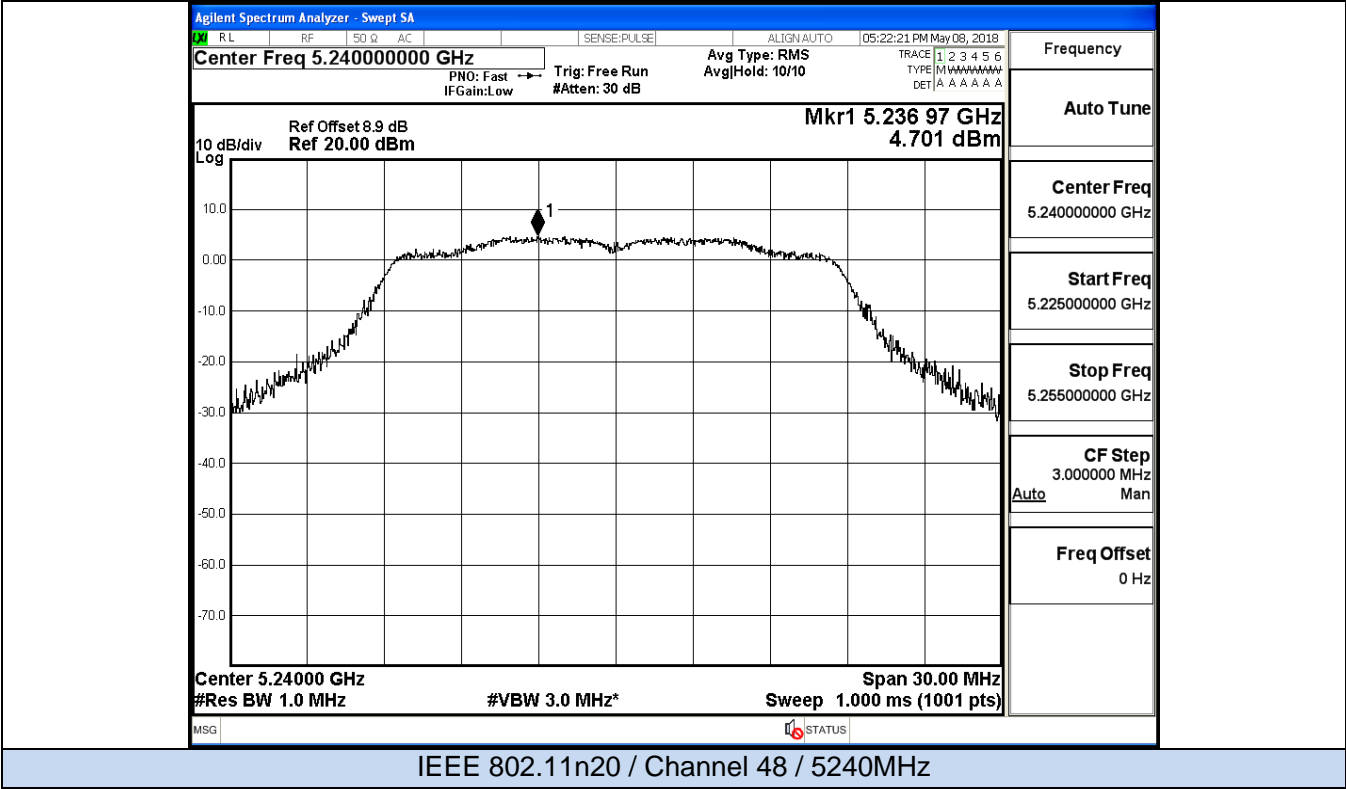




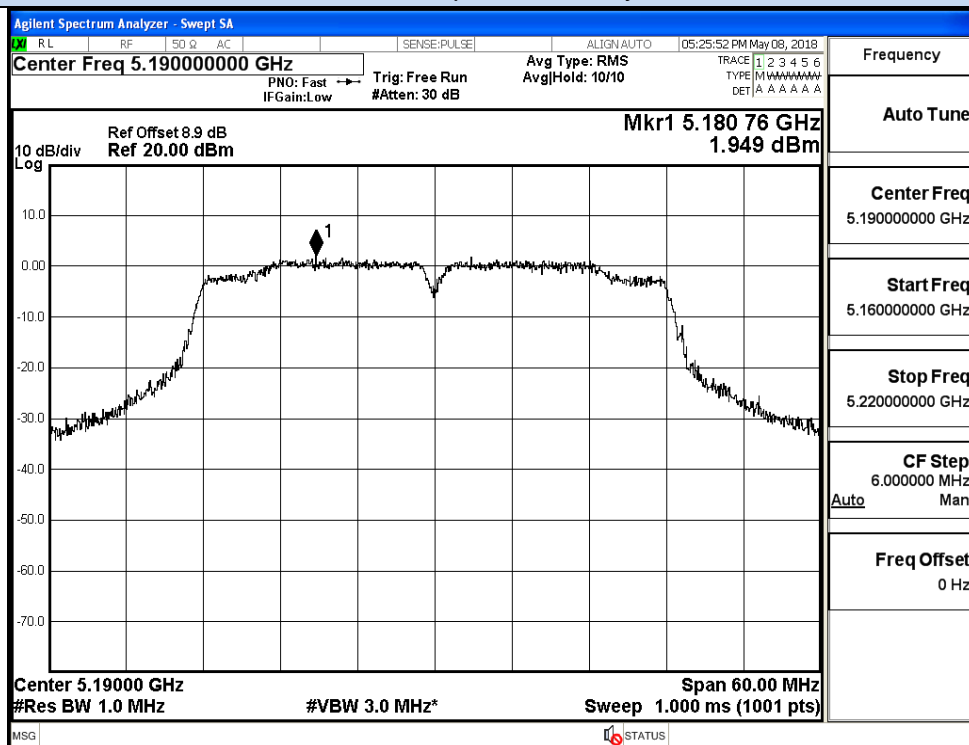
IEEE 802.11a / Channel 40 / 5200MHz



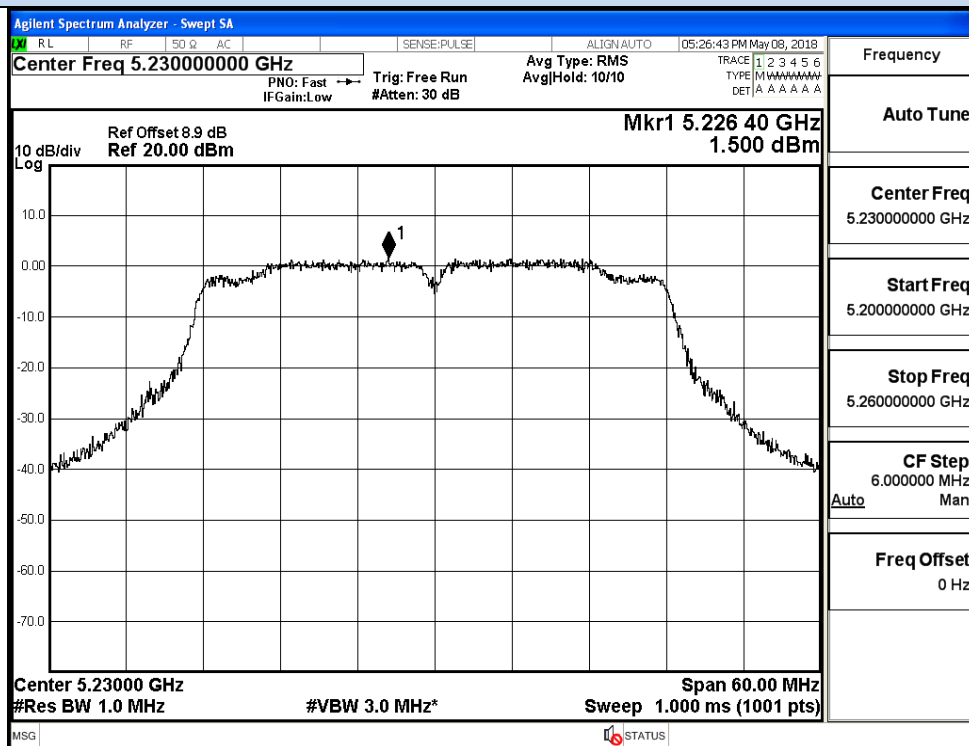
IEEE 802.11a / Channel 48 / 5240MHz



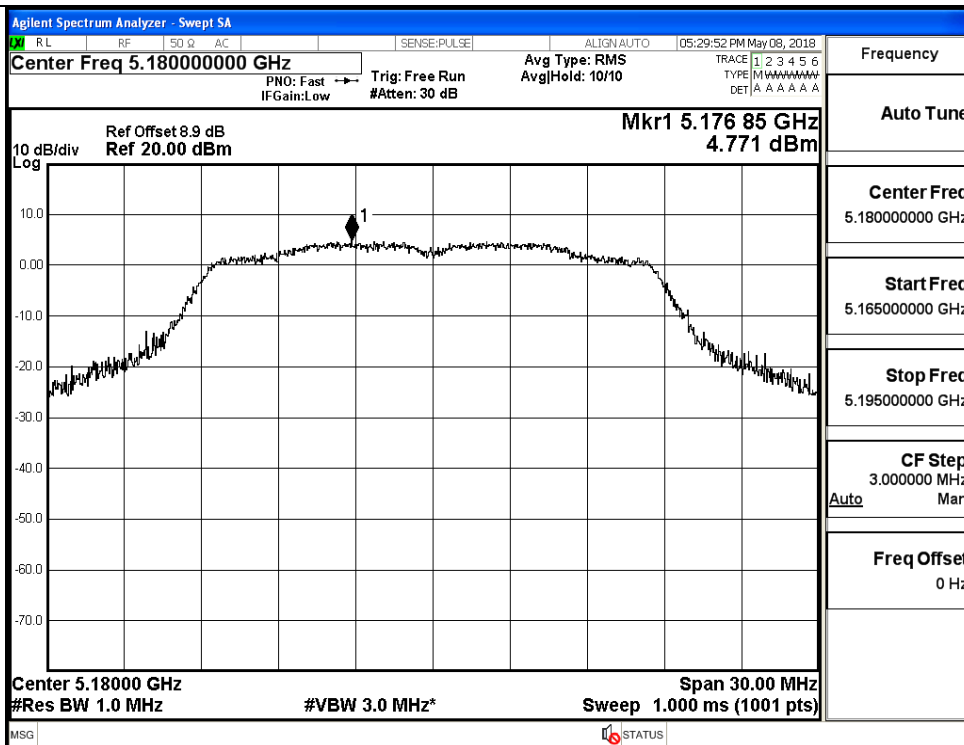
Power Spectral Density



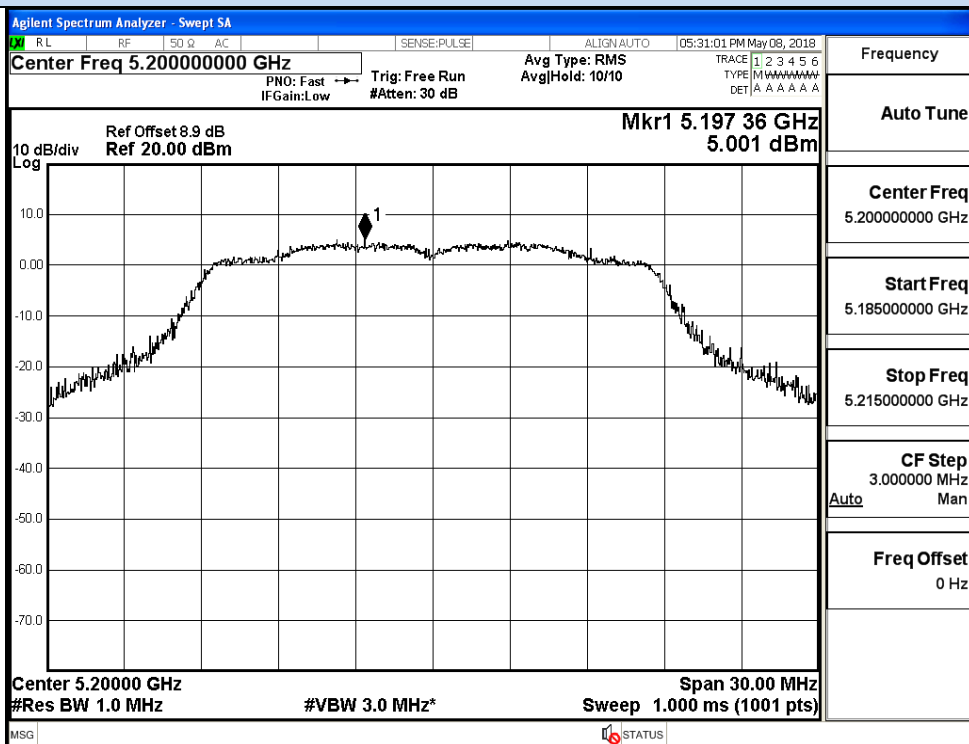
IEEE 802.11n40 / Channel 38 / 5190MHz



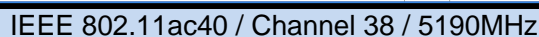
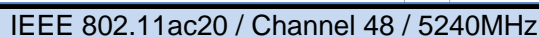
IEEE 802.11n40 / Channel 46 / 5230MHz

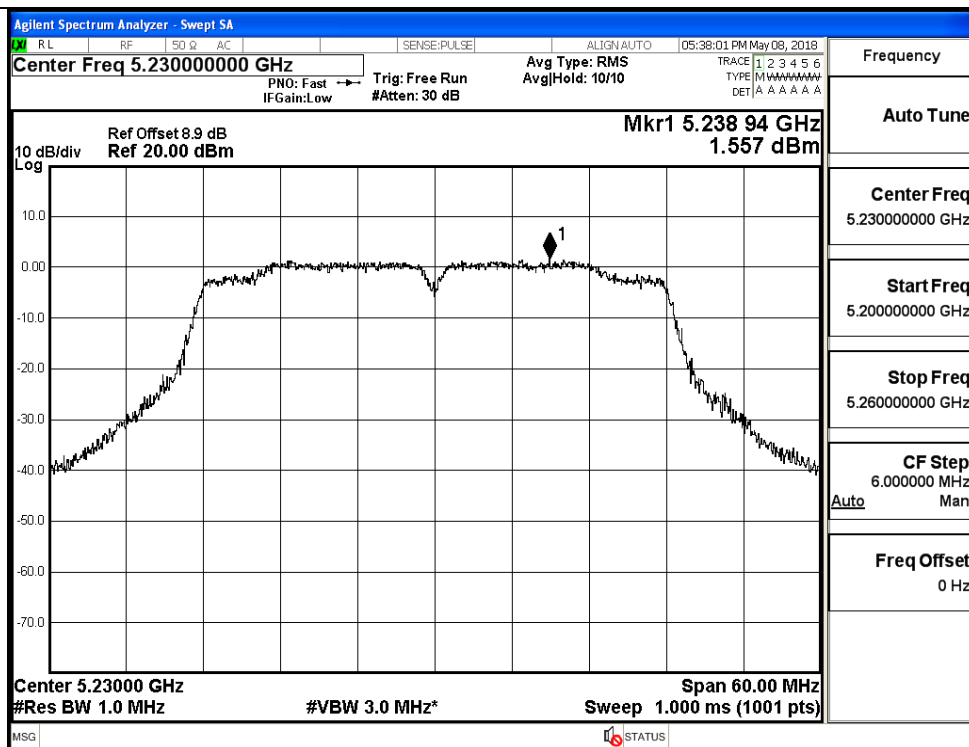


IEEE 802.11ac20 / Channel 36 / 5180MHz

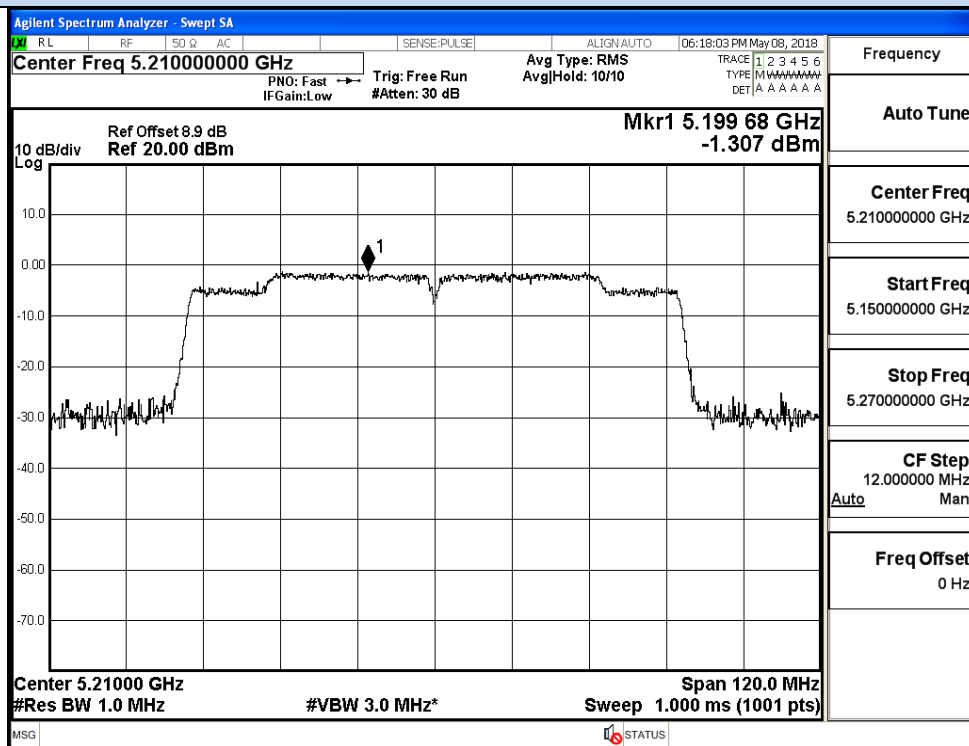


IEEE 802.11ac20 / Channel 40 / 5200MHz





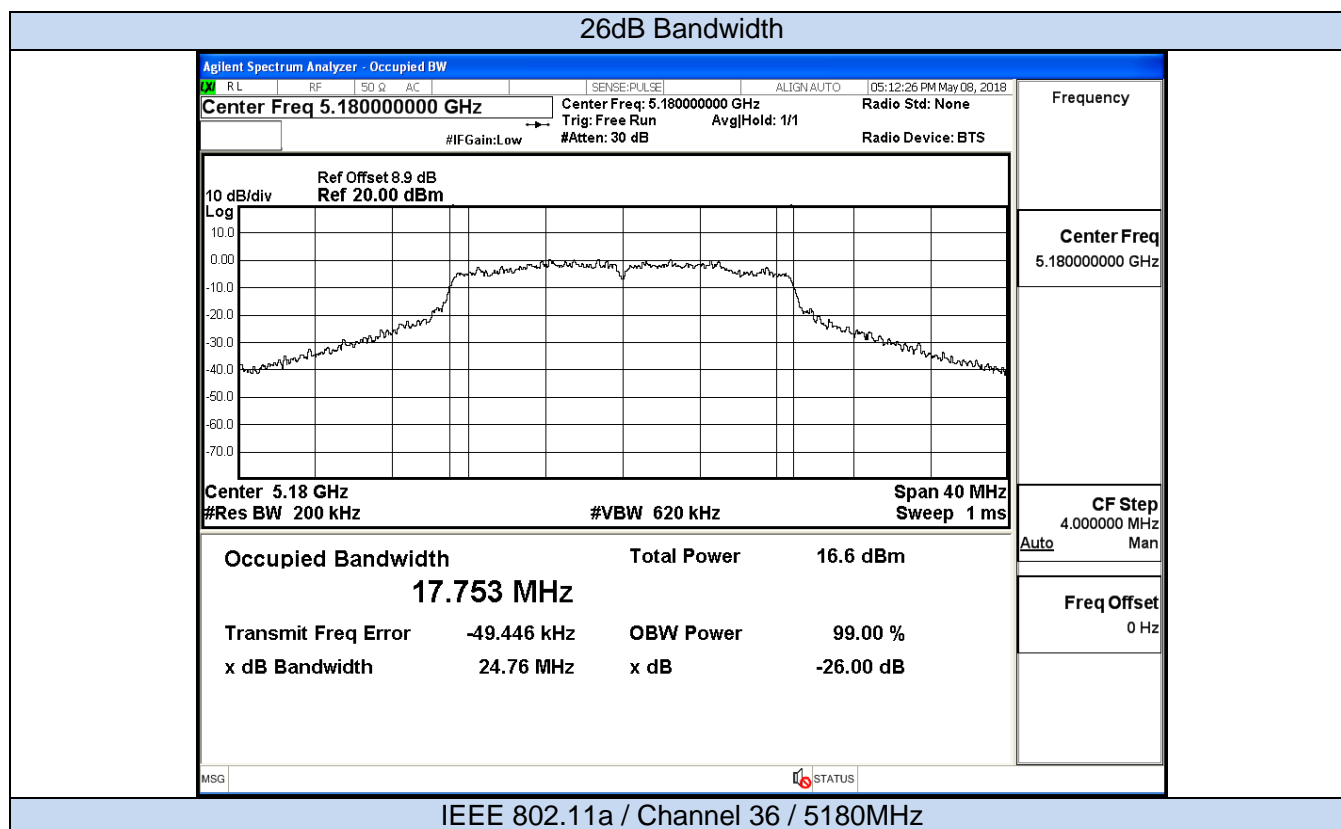
IEEE 802.11ac40 / Channel 46 / 5230MHz

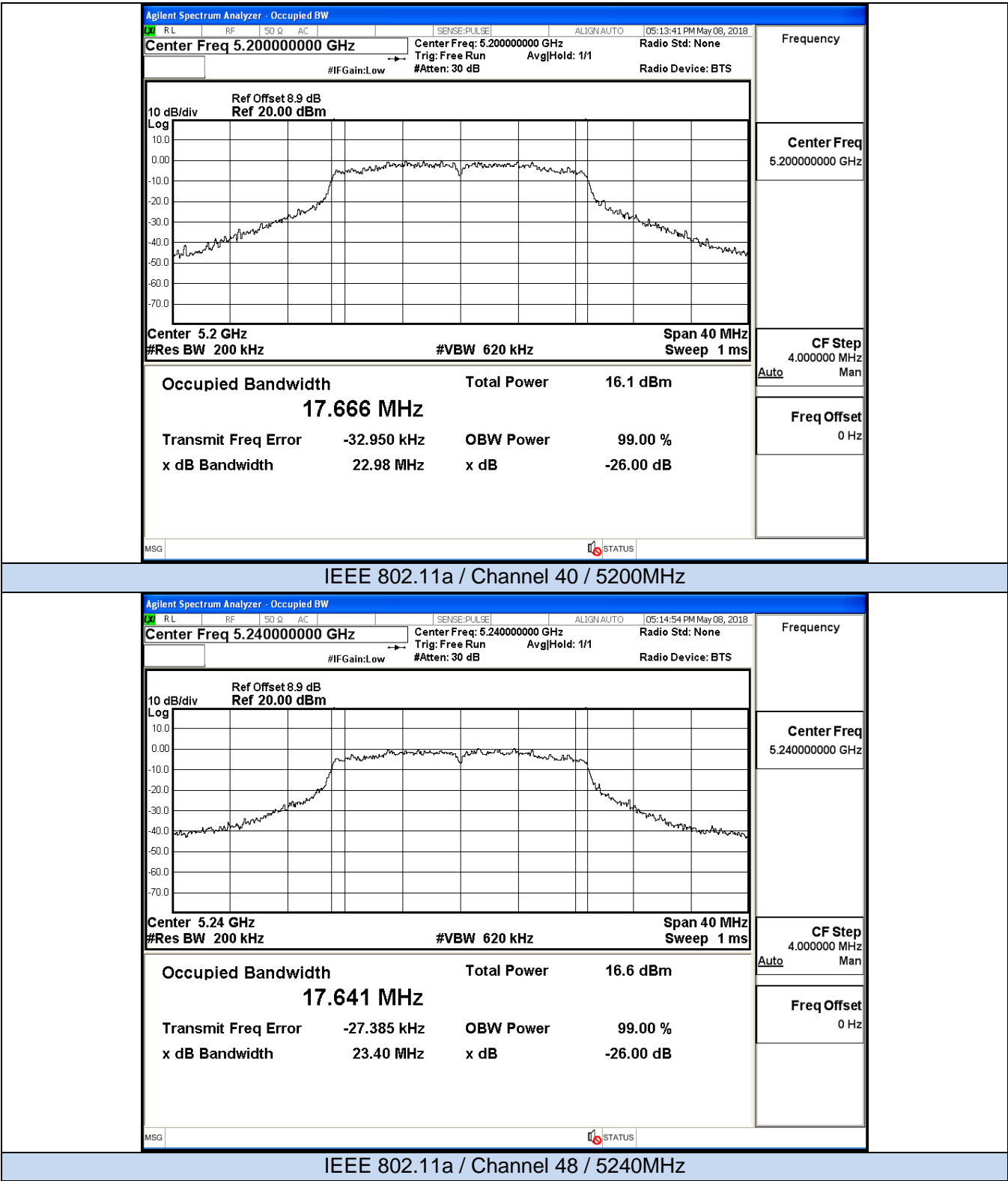


IEEE 802.11ac80 / Channel 42 / 5210MHz

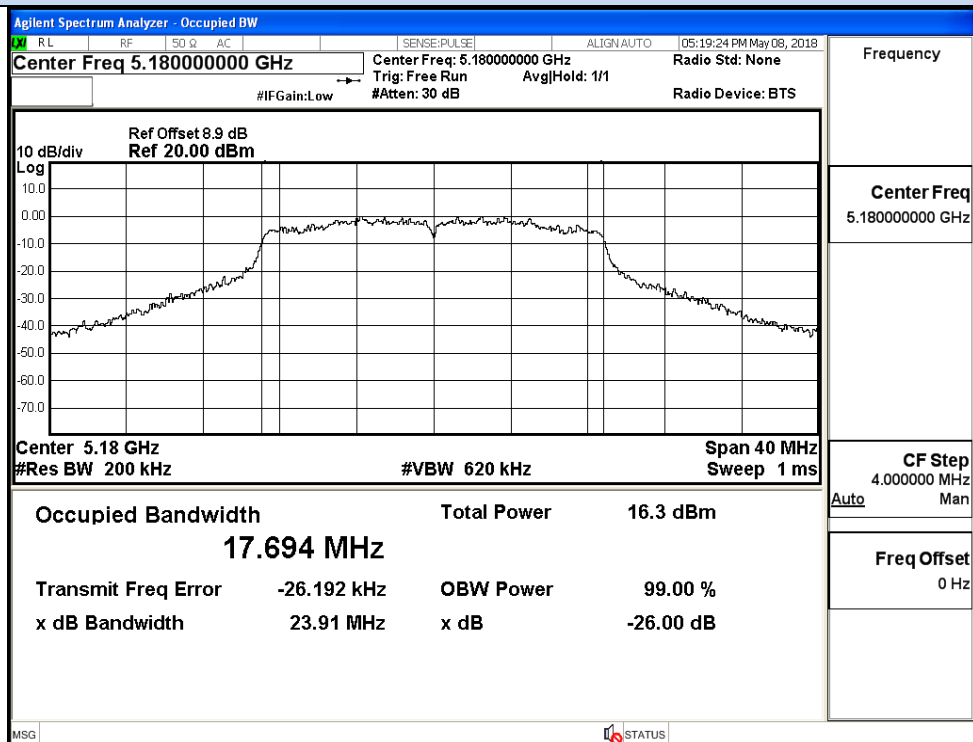
E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	24.76	17.753	No Limit	Pass
	40	5200	22.98	17.666		Pass
	48	5240	23.40	17.641		Pass
11N20 SISO	36	5180	23.91	17.694	No Limit	Pass
	40	5200	22.70	17.666		Pass
	48	5240	21.82	17.642		Pass
11N40 SISO	38	5190	44.87	36.143	No Limit	Pass
	46	5230	41.79	36.045		Pass
11AC20 SISO	36	5180	24.39	17.699	No Limit	Pass
	40	5200	24.66	17.727		Pass
	48	5240	22.75	17.637		Pass
11AC40 SISO	38	5190	44.15	36.102	No Limit	Pass
	46	5230	42.40	36.067		Pass
11AC80 SISO	42	5210	75.70	75.701	No Limit	Pass

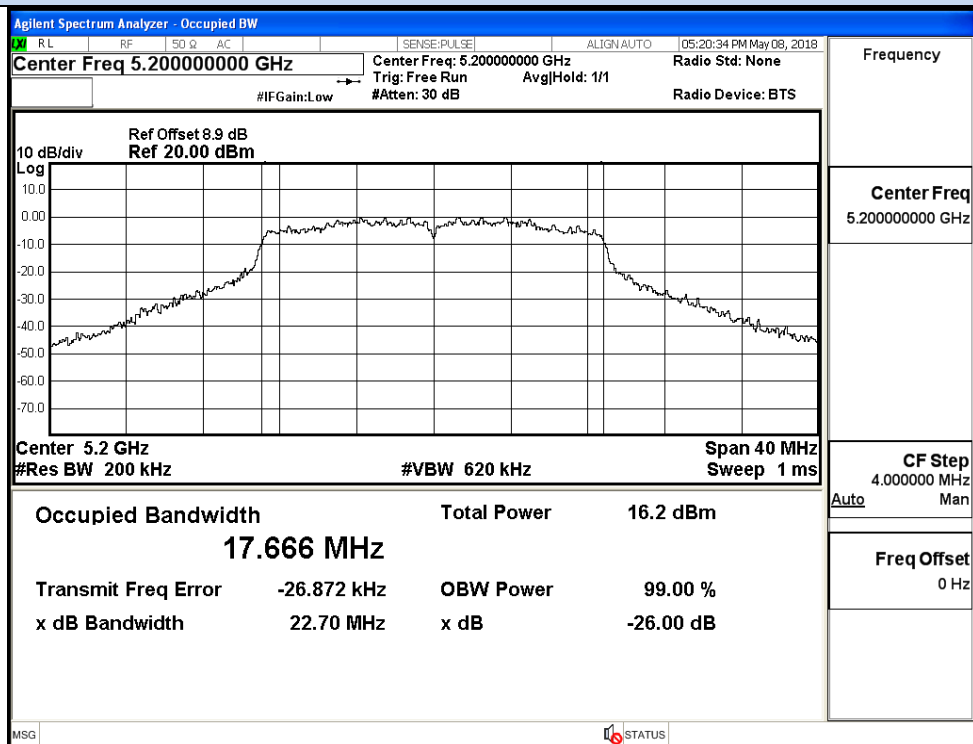




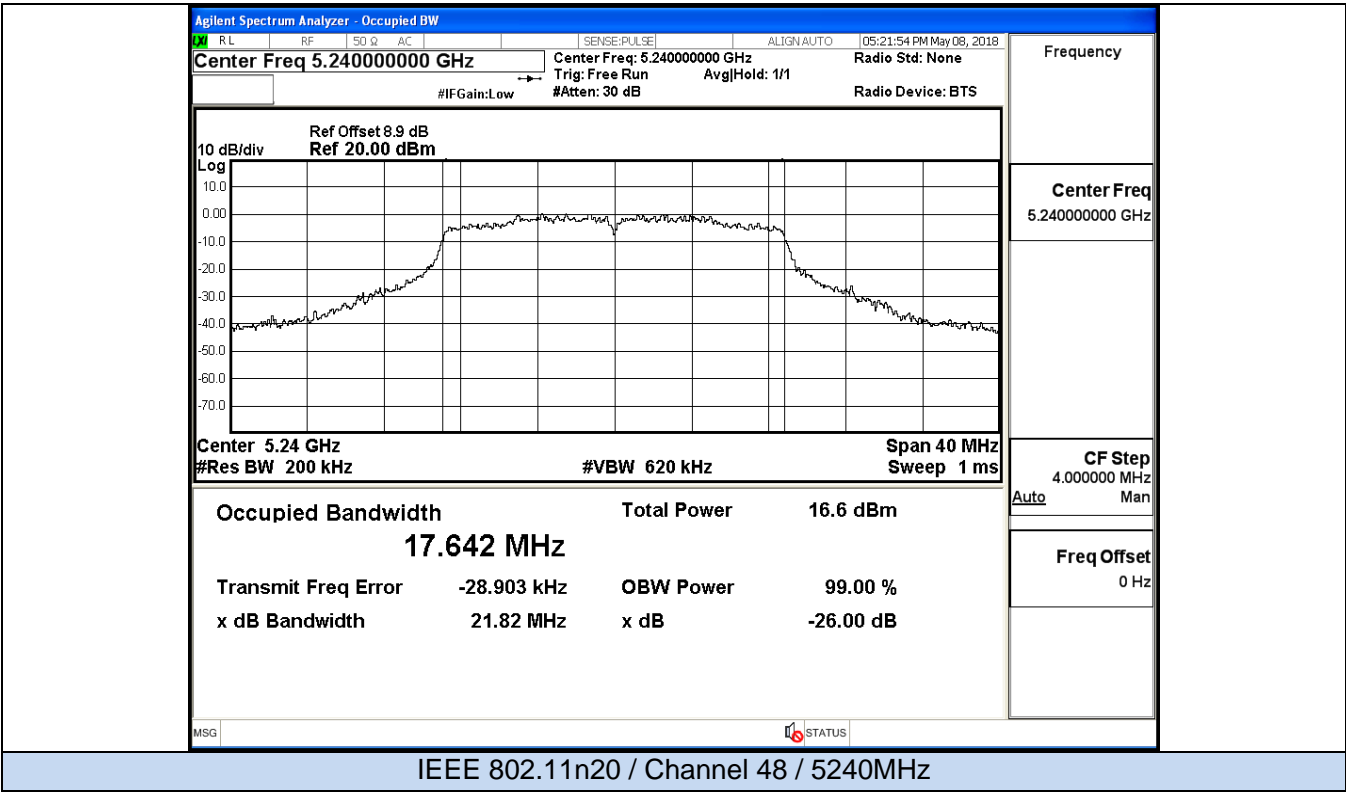
26dB Bandwidth



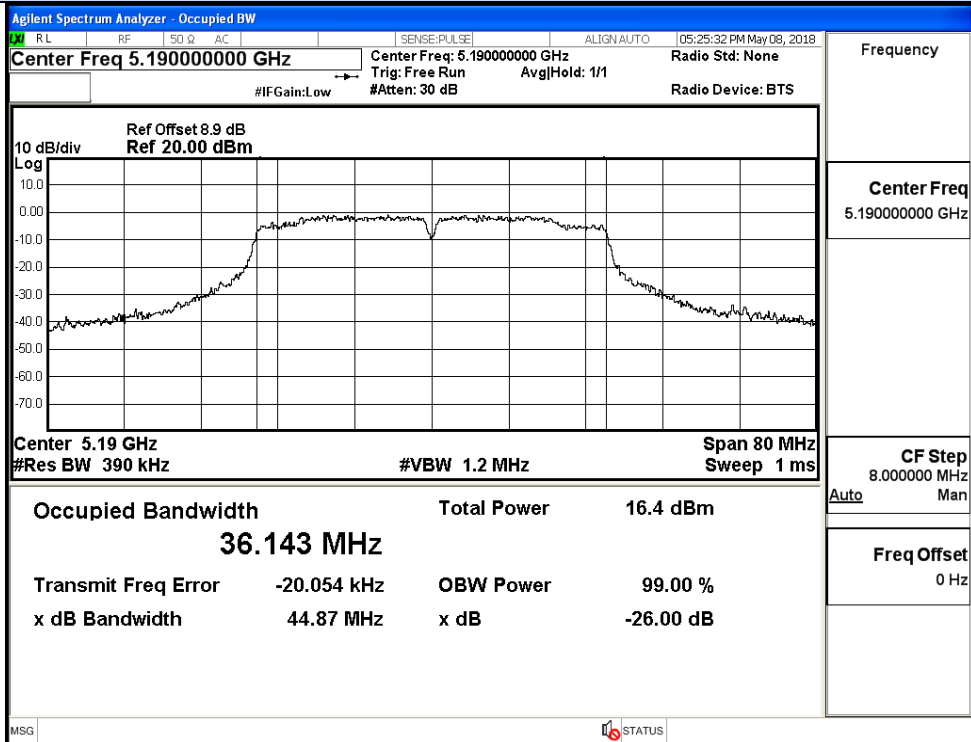
IEEE 802.11n20 / Channel 36 / 5180MHz



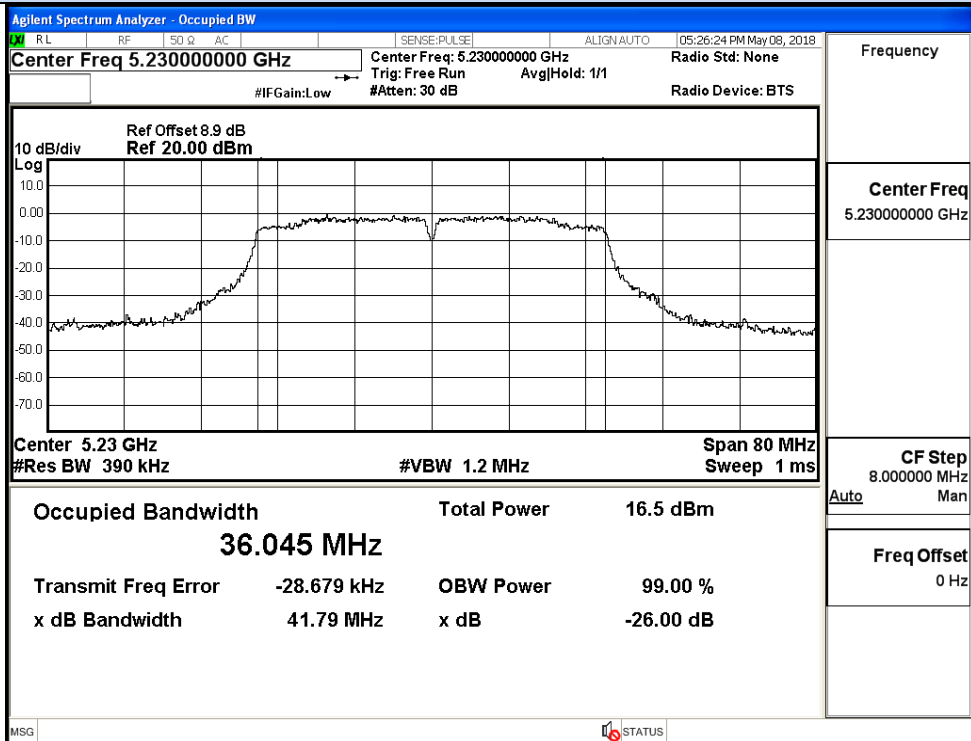
IEEE 802.11n20 / Channel 40 / 5200MHz



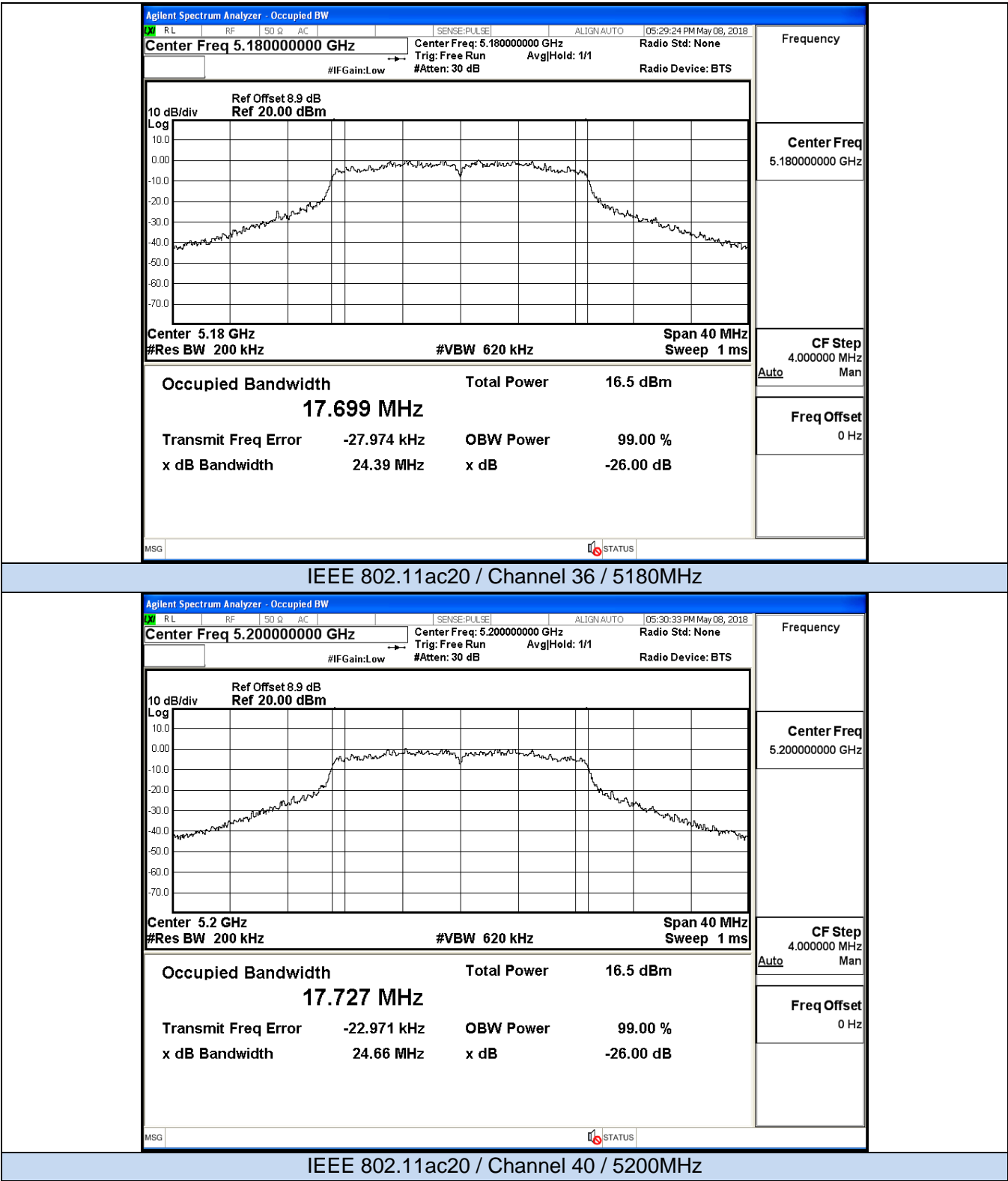
26dB Bandwidth

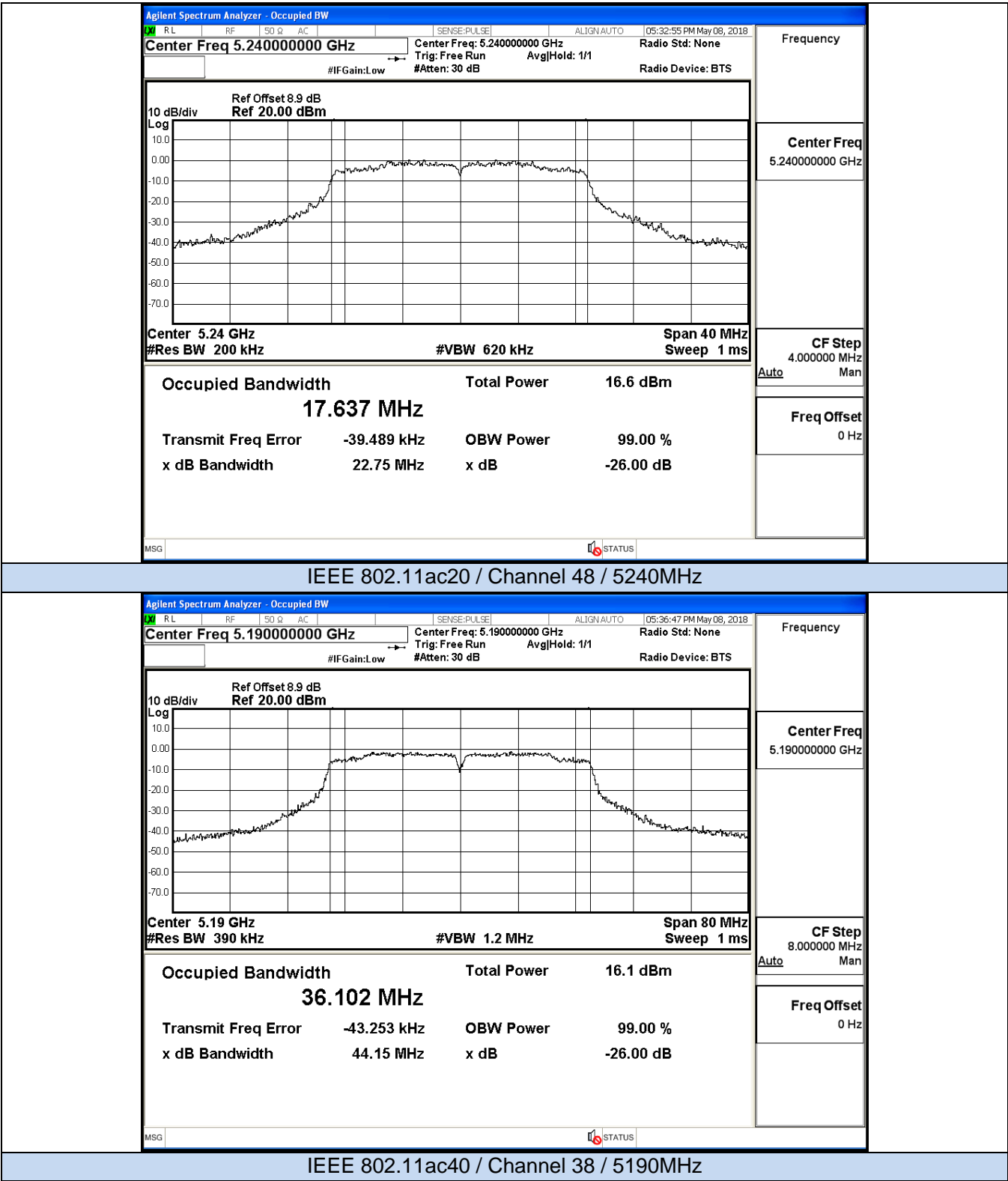


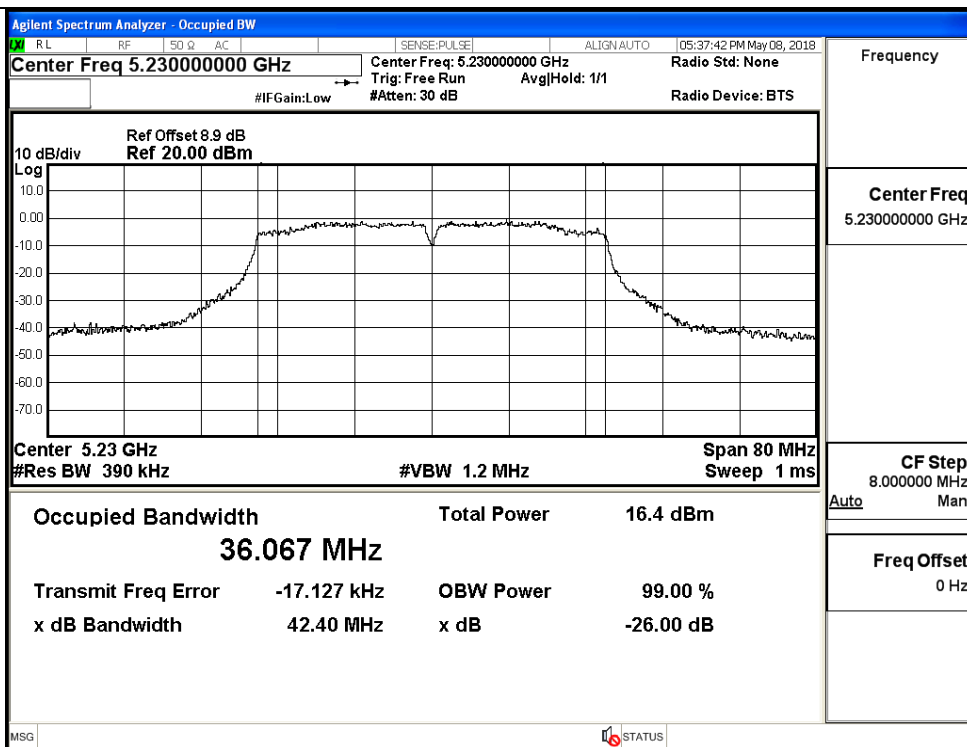
IEEE 802.11n40 / Channel 38 / 5190MHz



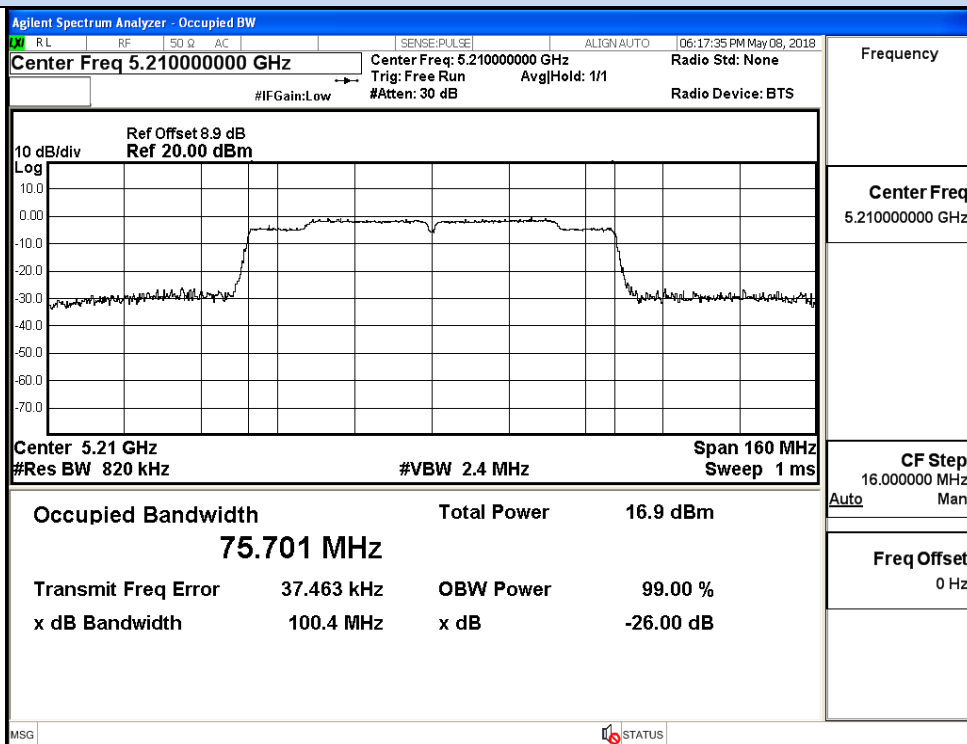
IEEE 802.11n40 / Channel 46 / 5230MHz







IEEE 802.11ac40 / Channel 46 / 5230MHz

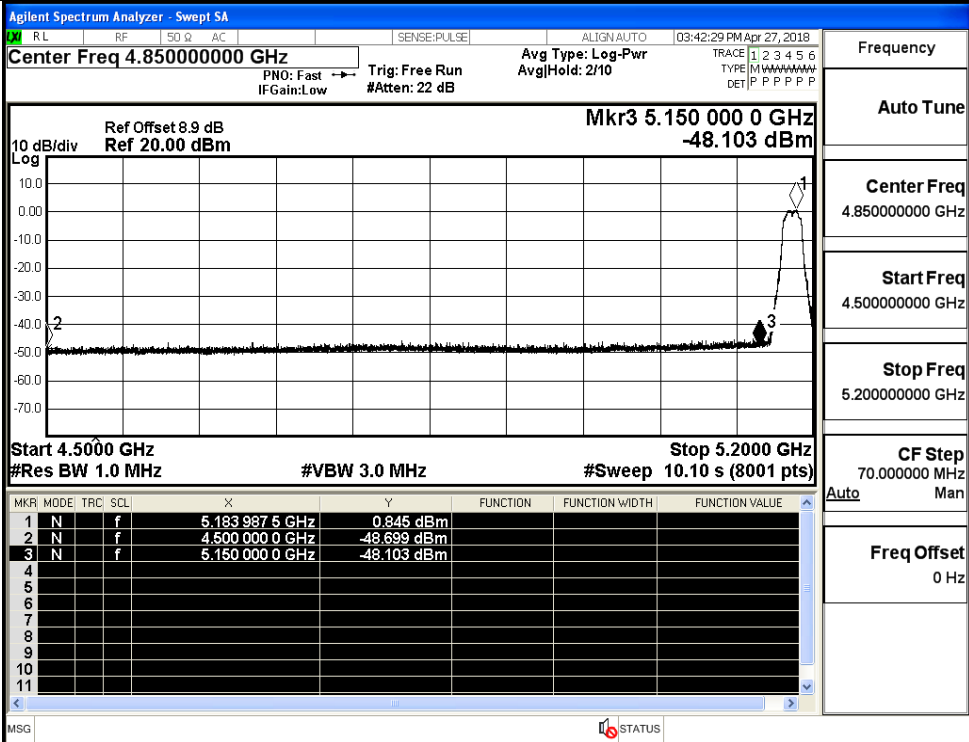


IEEE 802.11ac80 / Channel 42 / 5210MHz

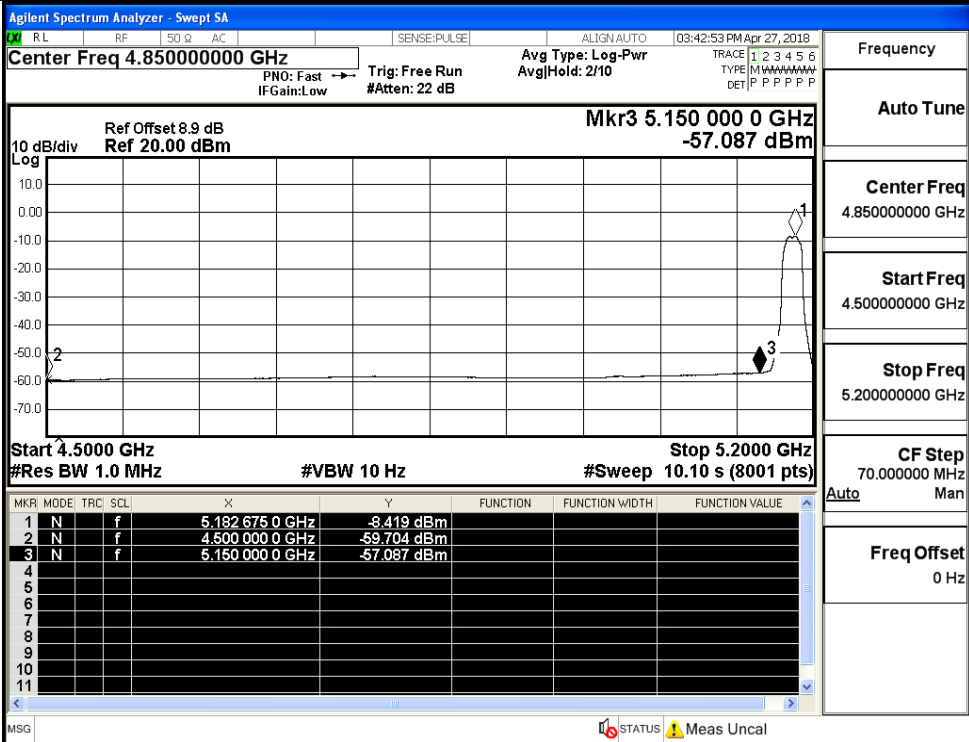
E.5 Undesirable Emissions Measurement

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	-48.70	2.00	0	48.53	Peak	74.00	Pass
		4500.0	-59.70	2.00	0	37.53	Average	54.00	Pass
		5150.0	-48.10	2.00	0	49.13	Peak	74.00	Pass
		5150.0	-57.09	2.00	0	40.14	Average	54.00	Pass
	48	5350.0	-48.37	2.00	0	48.86	Peak	74.00	Pass
		5350.0	-58.77	2.00	0	38.46	Average	54.00	Pass
		5460.0	-50.22	2.00	0	47.01	Peak	74.00	Pass
		5460.0	-60.03	2.00	0	37.20	Average	54.00	Pass
11N20 SISO	36	4500.0	-50.44	2.00	0	46.79	Peak	74.00	Pass
		4500.0	-59.72	2.00	0	37.51	Average	54.00	Pass
		5150.0	-47.41	2.00	0	49.82	Peak	74.00	Pass
		5150.0	-57.04	2.00	0	40.19	Average	54.00	Pass
	48	5350.0	-48.43	2.00	0	48.80	Peak	74.00	Pass
		5350.0	-58.71	2.00	0	38.52	Average	54.00	Pass
		5460.0	-49.03	2.00	0	48.20	Peak	74.00	Pass
		5460.0	-60.00	2.00	0	37.23	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.27	2.00	0	47.96	Peak	74.00	Pass
		4500.0	-59.68	2.00	0	37.55	Average	54.00	Pass
		5150.0	-47.91	2.00	0	49.32	Peak	74.00	Pass
		5150.0	-56.87	2.00	0	40.36	Average	54.00	Pass
	46	5350.0	-47.79	2.00	0	49.44	Peak	74.00	Pass
		5350.0	-58.51	2.00	0	38.72	Average	54.00	Pass
		5460.0	-49.74	2.00	0	47.49	Peak	74.00	Pass
		5460.0	-59.72	2.00	0	37.51	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.22	2.00	0	47.01	Peak	74.00	Pass
		4500.0	-59.67	2.00	0	37.56	Average	54.00	Pass
		5150.0	-47.57	2.00	0	49.66	Peak	74.00	Pass
		5150.0	-57.07	2.00	0	40.16	Average	54.00	Pass
	48	4500.0	-50.22	2.00	0	47.01	Peak	74.00	Pass
		4500.0	-59.67	2.00	0	37.56	Average	54.00	Pass
		5150.0	-47.57	2.00	0	49.66	Peak	74.00	Pass
		5150.0	-57.07	2.00	0	40.16	Average	54.00	Pass
11AC40 SISO	38	4500.0	-50.48	2.00	0	46.75	Peak	74.00	Pass
		4500.0	-59.75	2.00	0	37.48	Average	54.00	Pass
		5150.0	-46.44	2.00	0	50.79	Peak	74.00	Pass
		5150.0	-56.88	2.00	0	40.35	Average	54.00	Pass
	46	5350.0	-48.83	2.00	0	48.40	Peak	74.00	Pass
		5350.0	-58.52	2.00	0	38.71	Average	54.00	Pass
		5460.0	-49.19	2.00	0	48.04	Peak	74.00	Pass
		5460.0	-59.73	2.00	0	37.50	Average	54.00	Pass
11AC80 SISO	42	4500.0	-48.72	2.00	0	48.51	Peak	74.00	Pass
		5150.0	-58.19	2.00	0	39.04	Average	54.00	Pass
		4500.0	-49.96	2.00	0	47.27	Peak	74.00	Pass
		5150.0	-59.30	2.00	0	37.93	Average	54.00	Pass
		5350.0	-48.72	2.00	0	48.51	Peak	74.00	Pass
		5460.0	-58.19	2.00	0	39.04	Average	54.00	Pass
		5350.0	-49.96	2.00	0	47.27	Peak	74.00	Pass
		5460.0	-59.30	2.00	0	37.93	Average	54.00	Pass

Undesirable Emissions Measurement

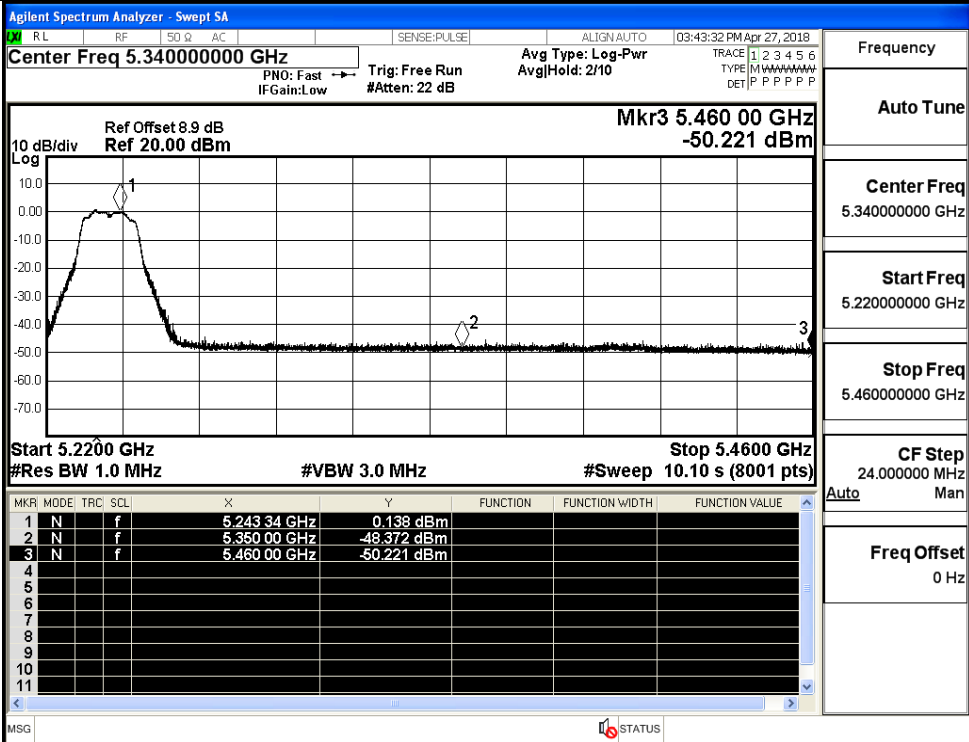


IEEE 802.11a / Channel 36 / 5180MHz / Peak

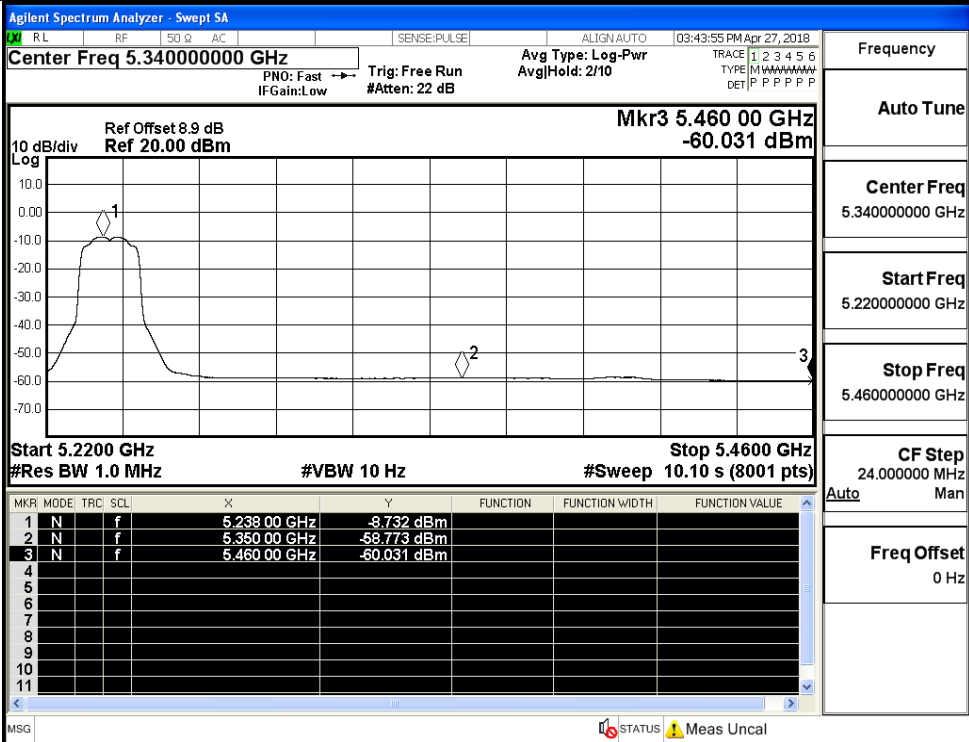


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

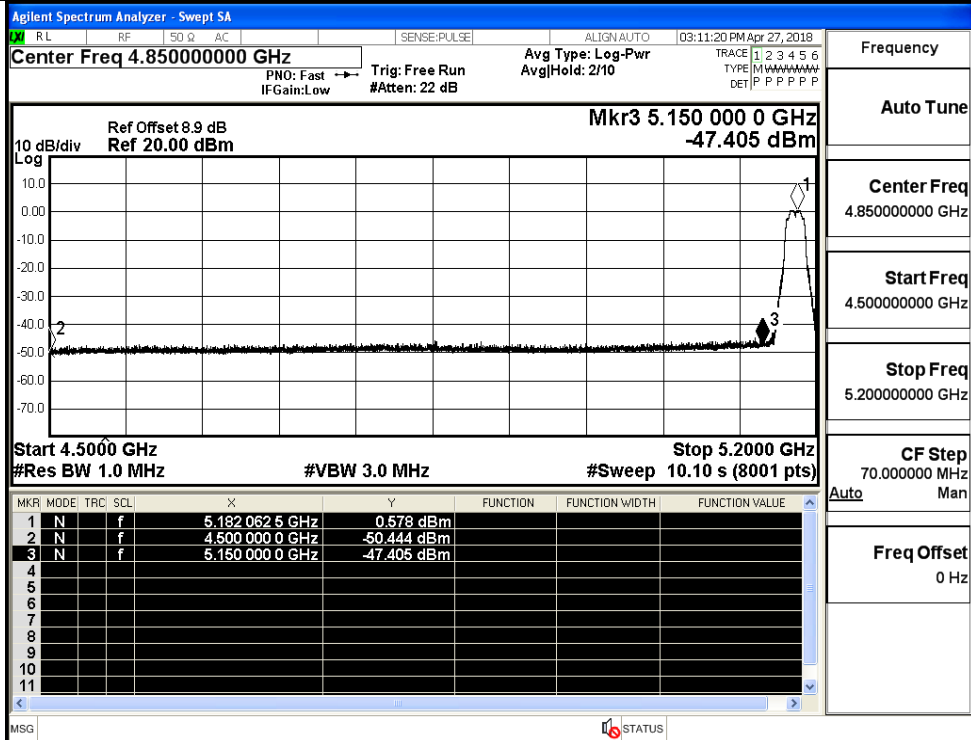


IEEE 802.11a / Channel 48 / 5240MHz / Peak

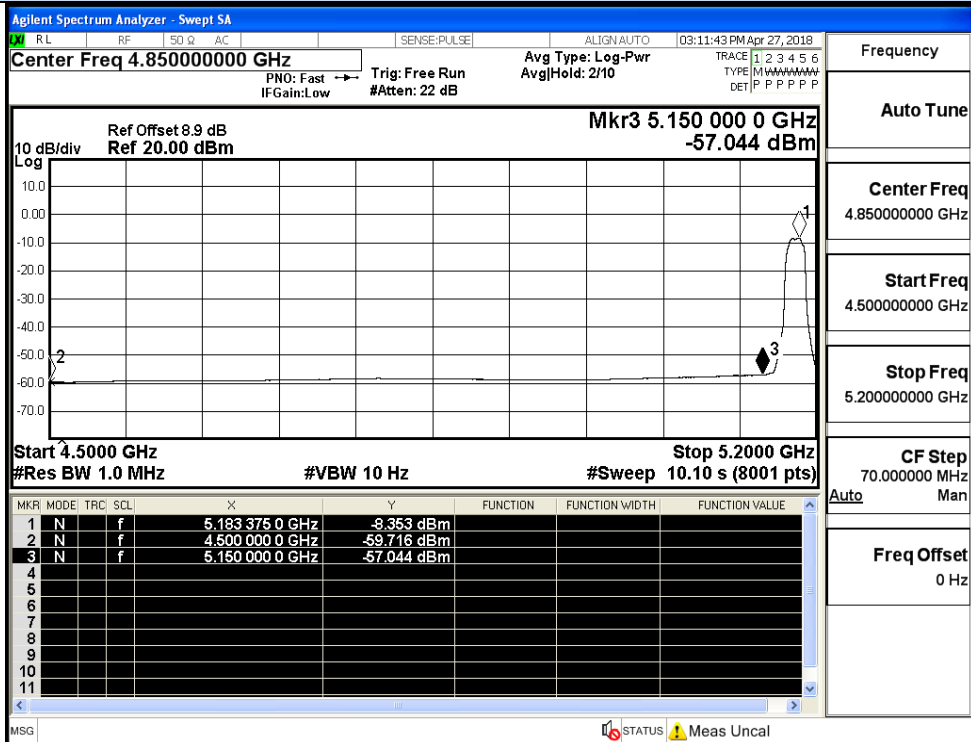


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

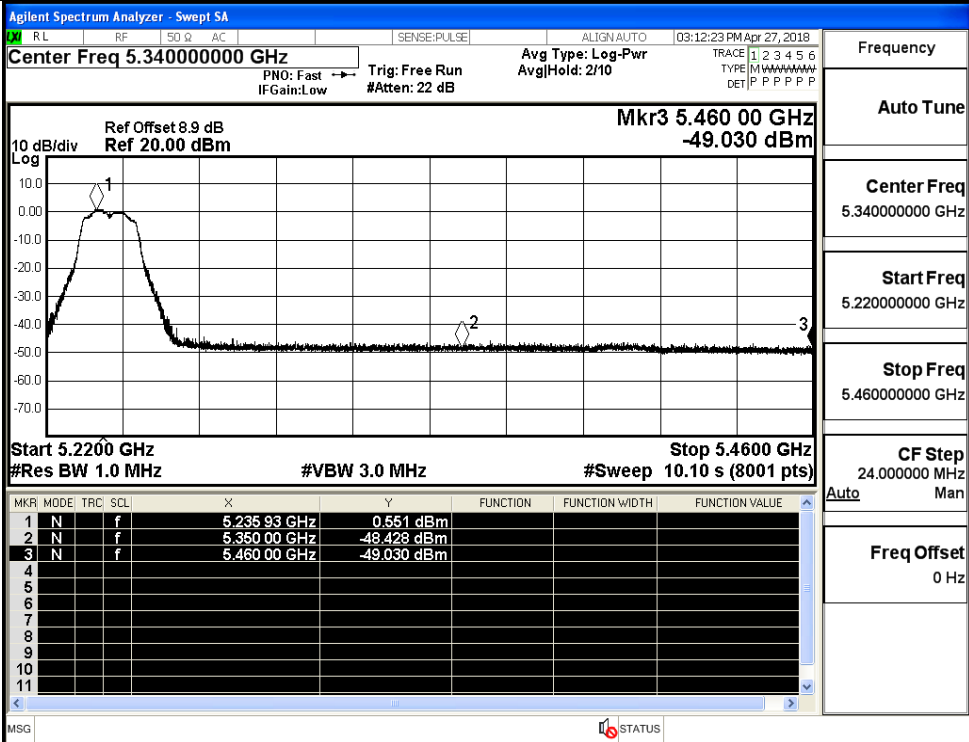


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

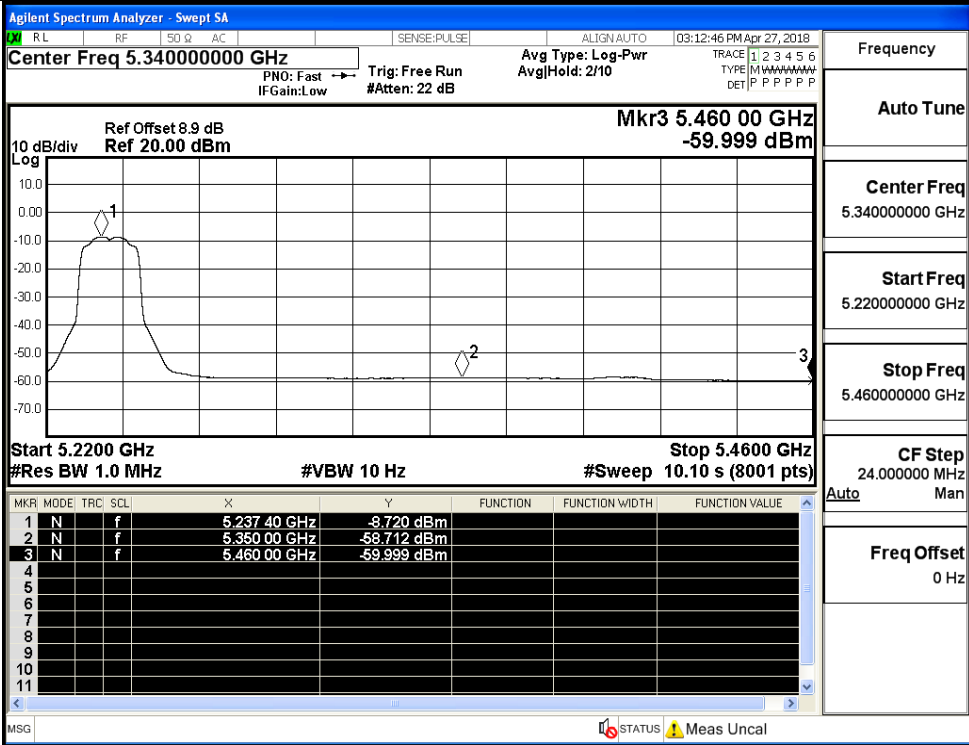


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

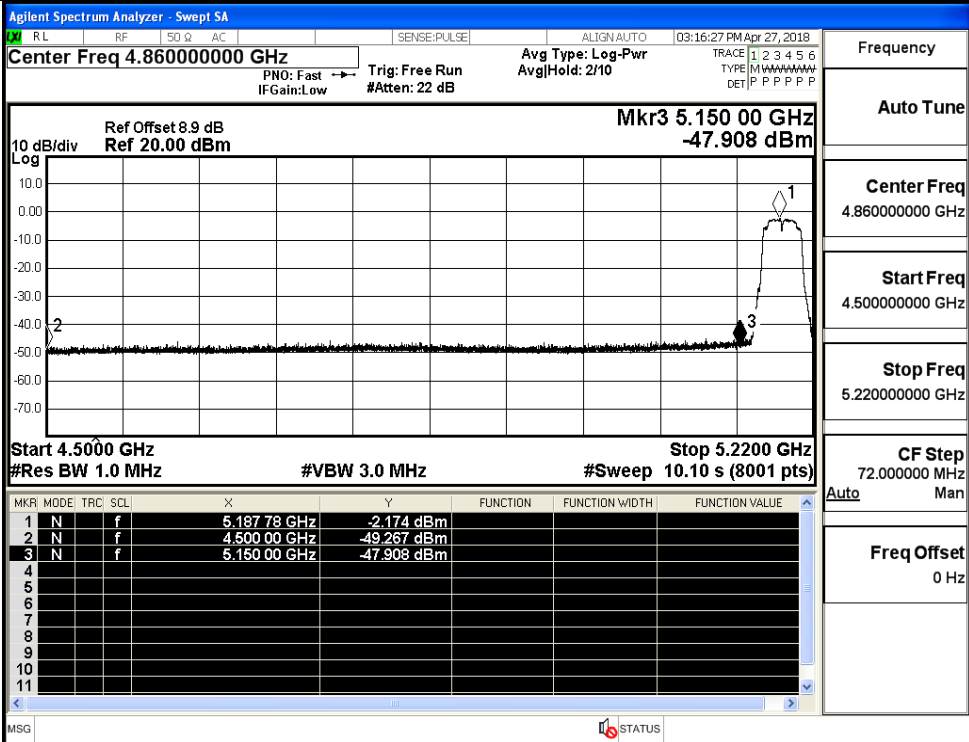


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

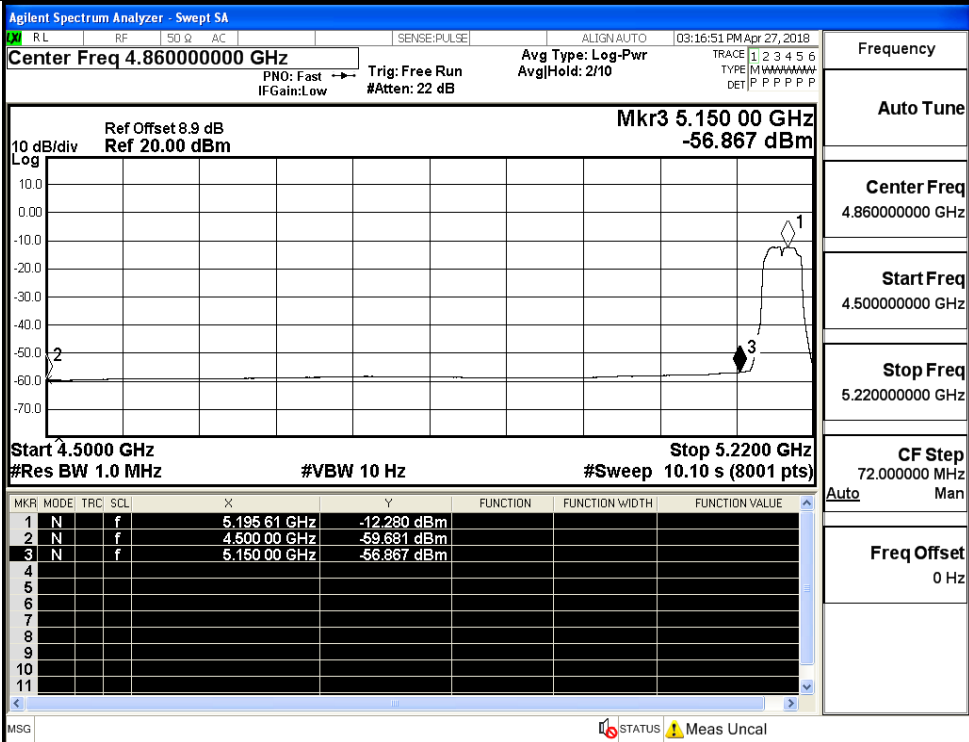


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

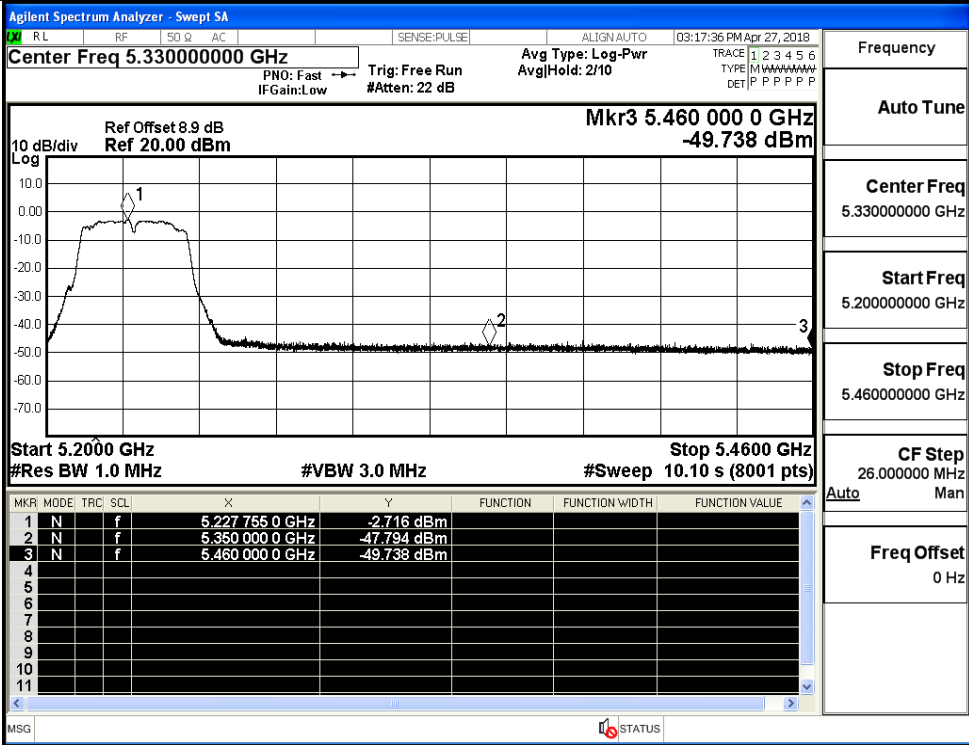


IEEE 802.11n40 / Channel 36 / 5180MHz / Peak

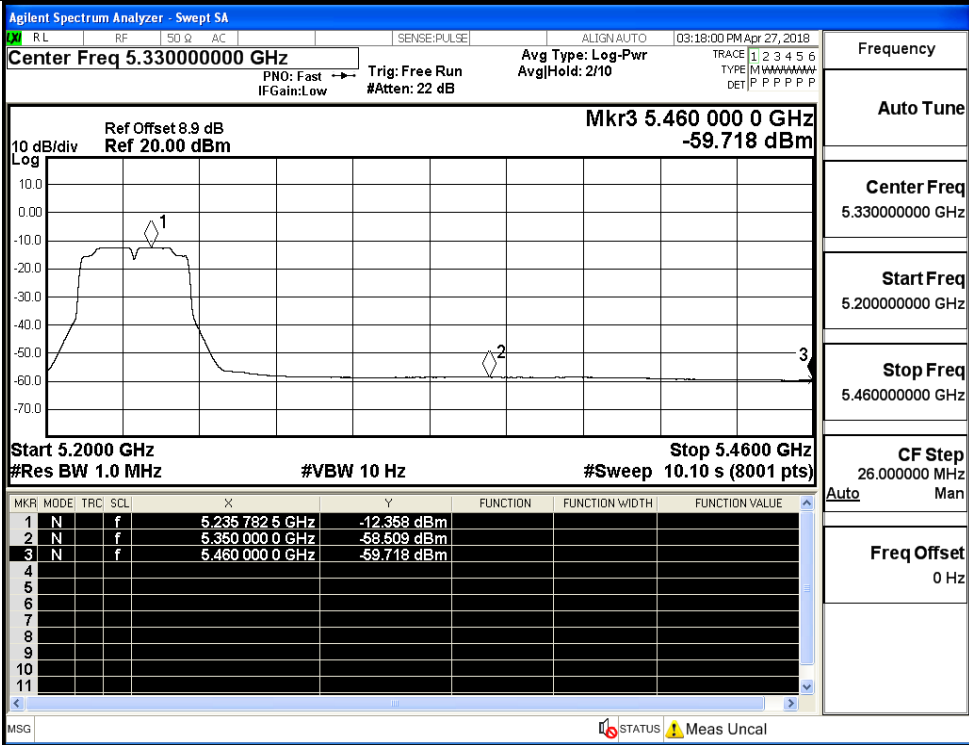


IEEE 802.11n40 / Channel 36 / 5180MHz / Average

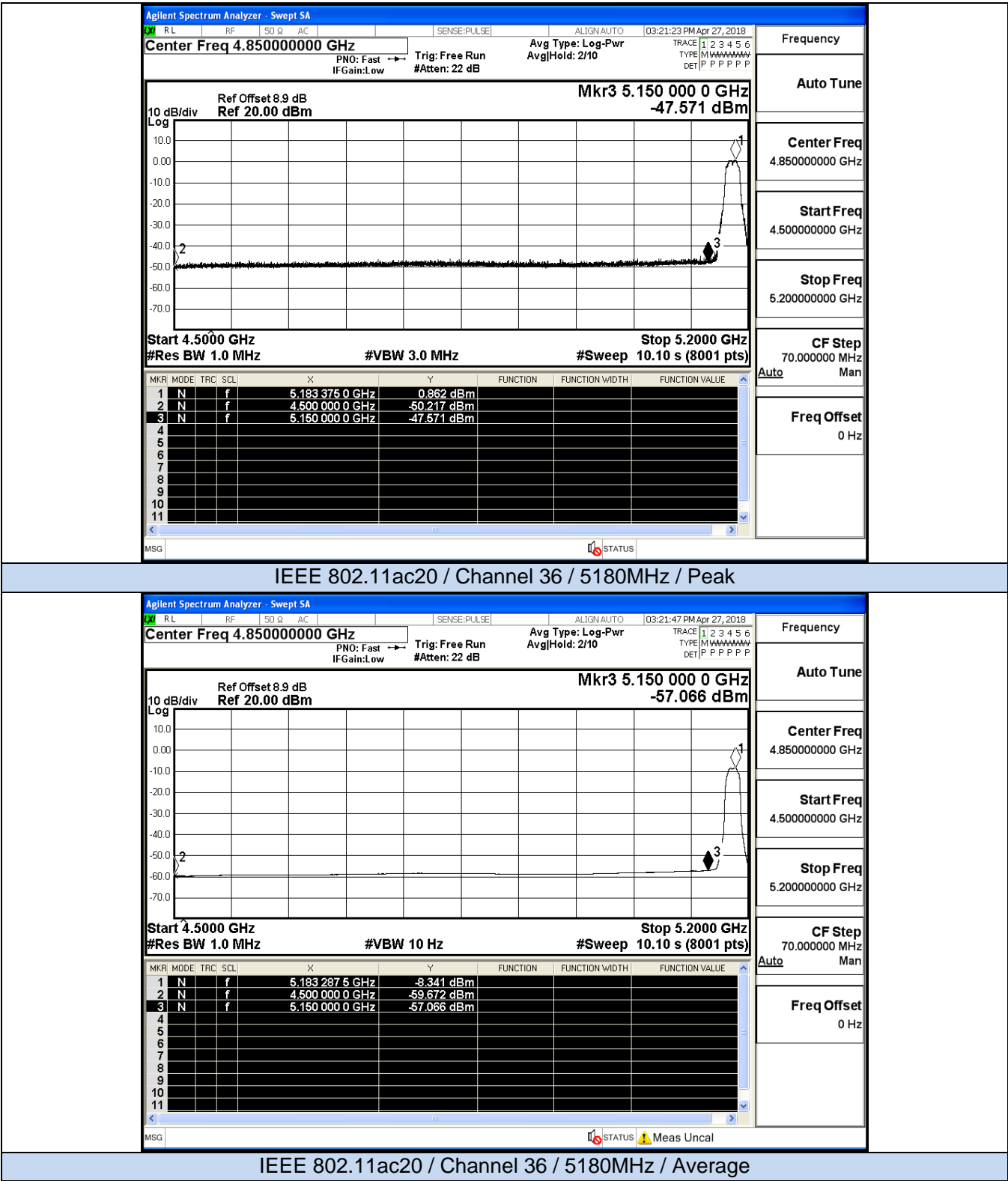
Undesirable Emissions Measurement

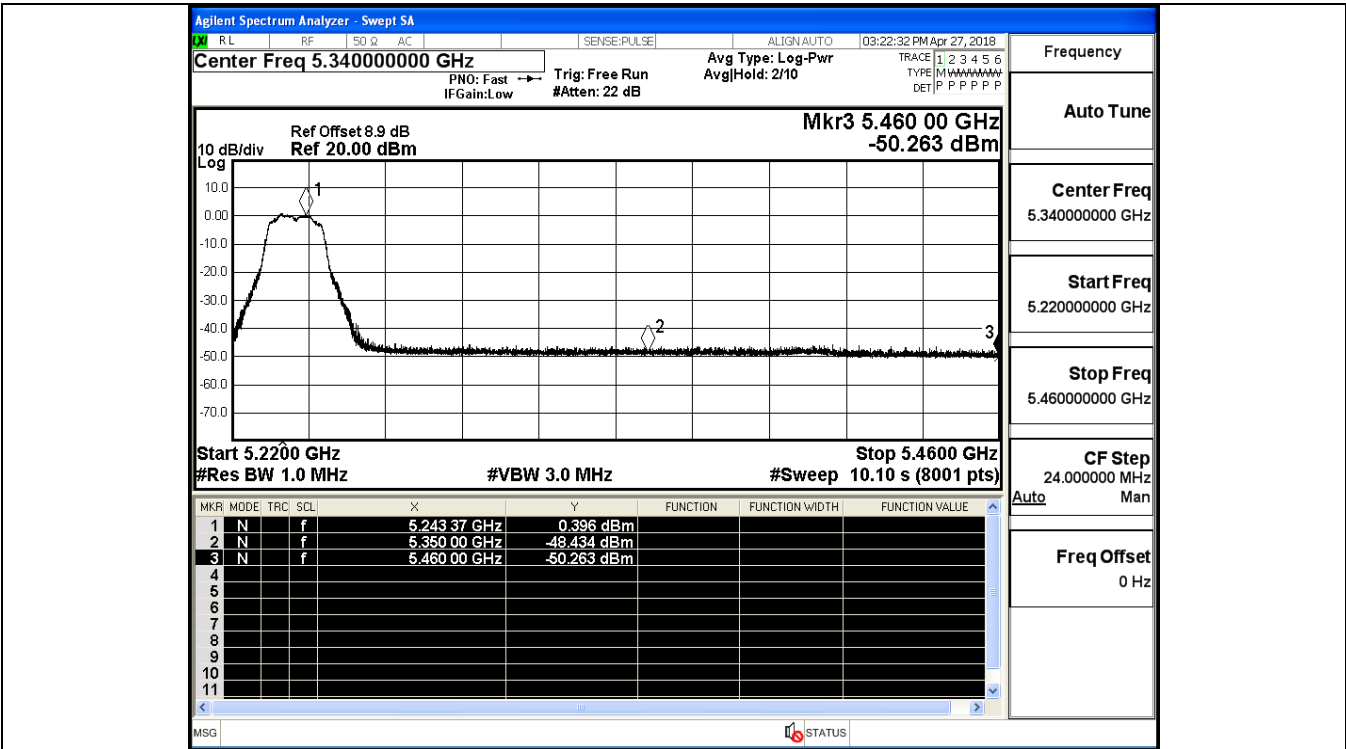


IEEE 802.11n40 / Channel 48 / 5230MHz / Peak

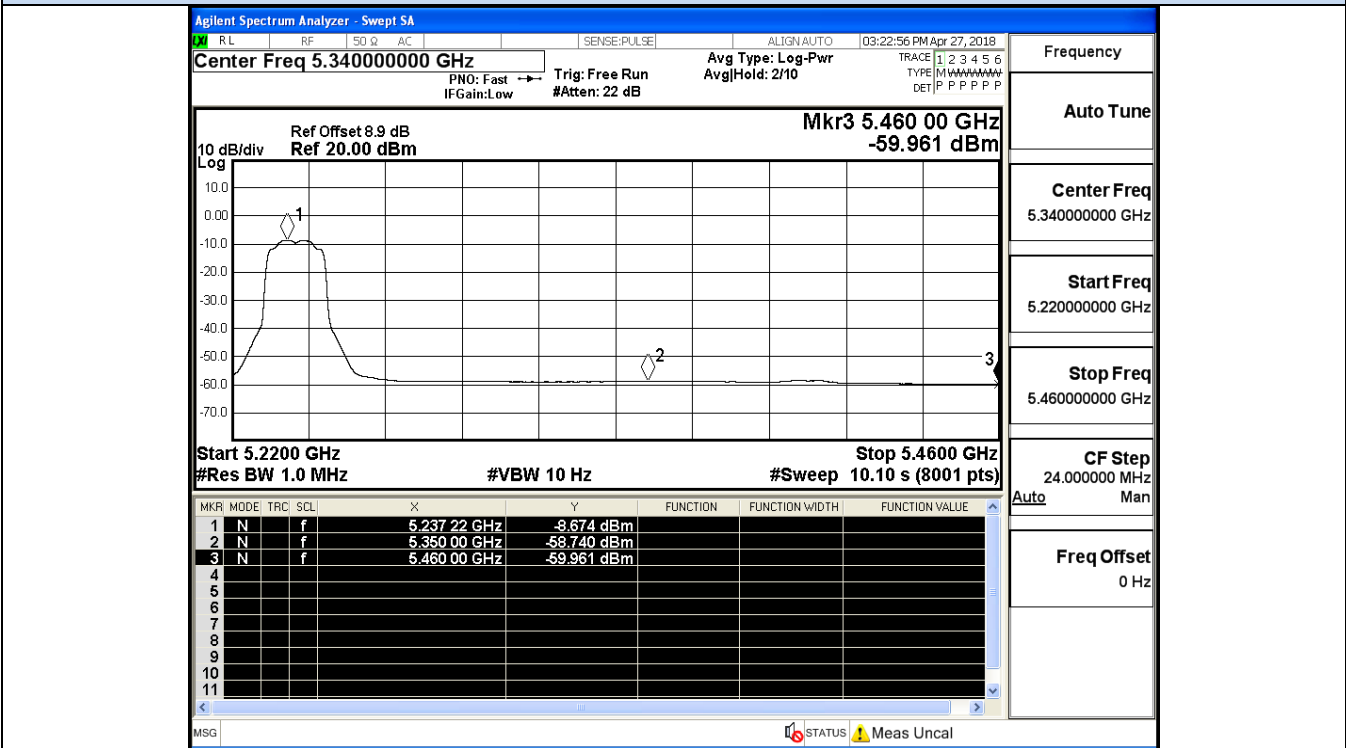


IEEE 802.11n40 / Channel 48 / 5230MHz / Average

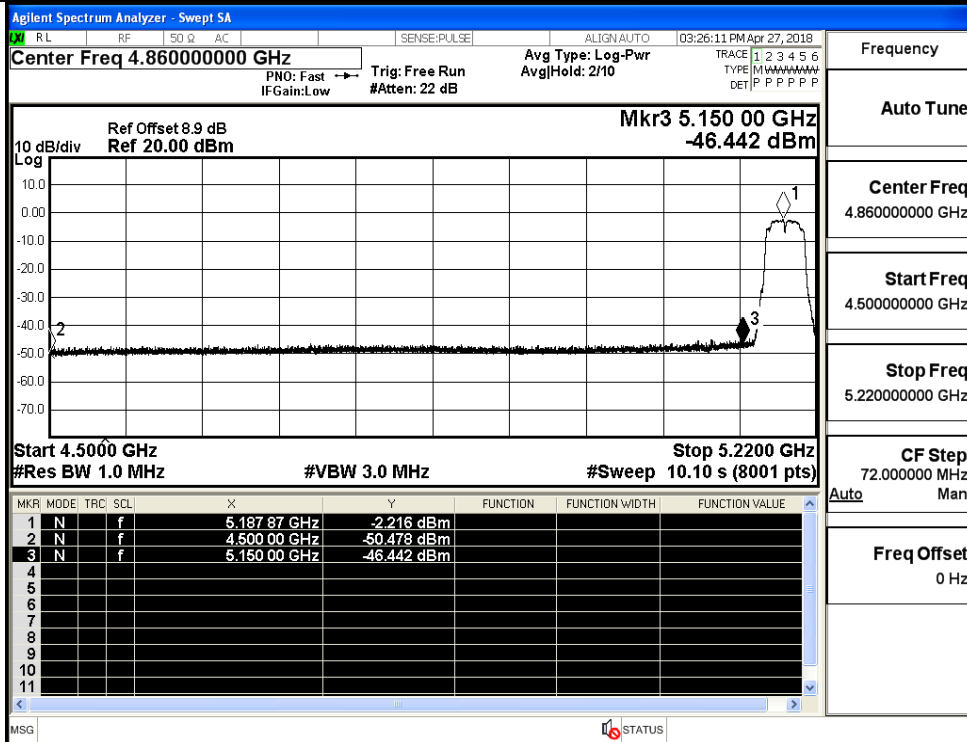




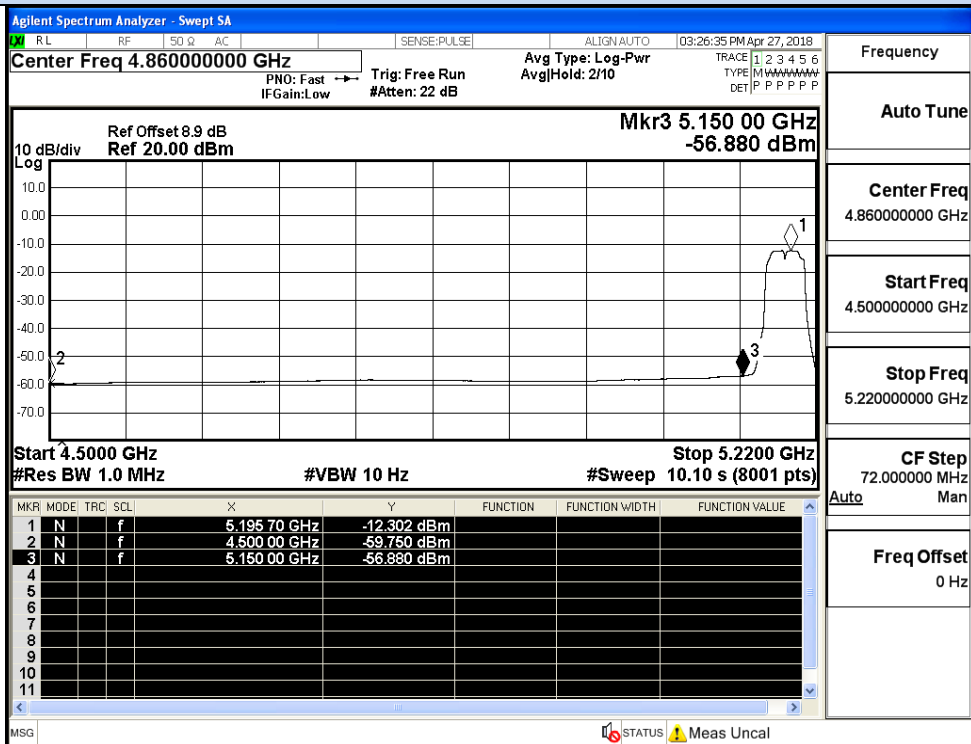
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



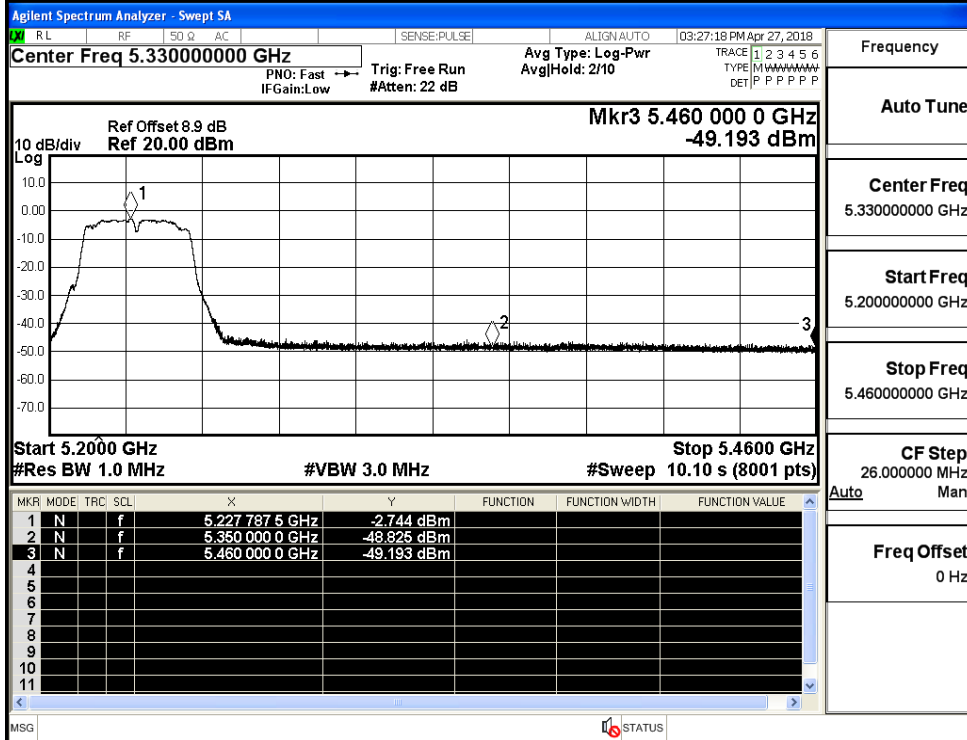
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



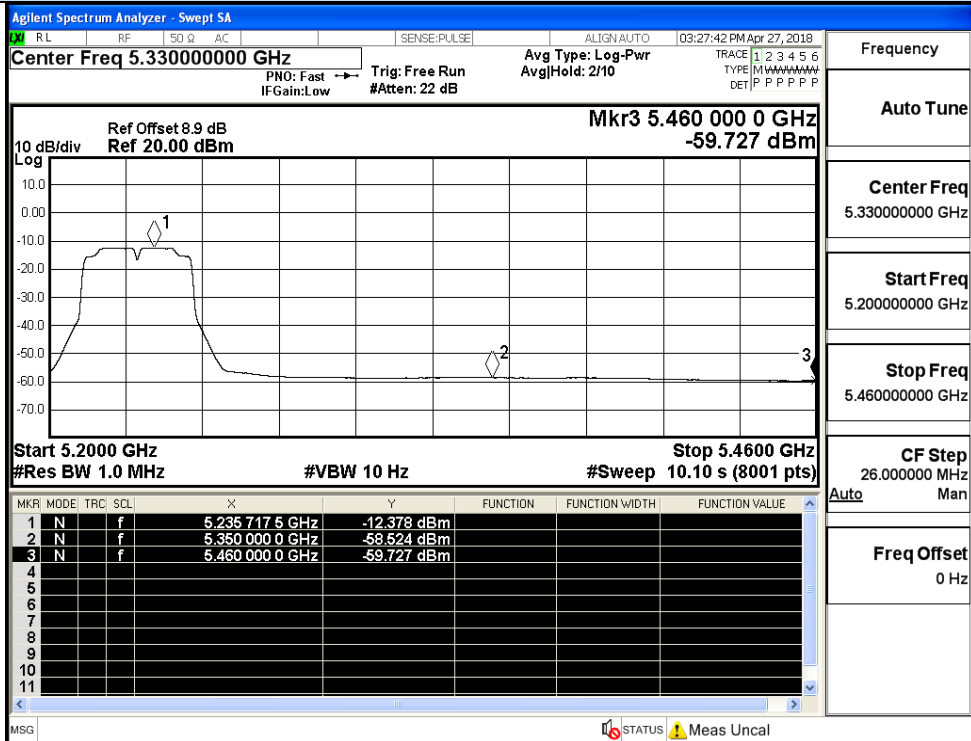
IEEE 802.11ac40 / Channel 36 / 5180MHz / Peak



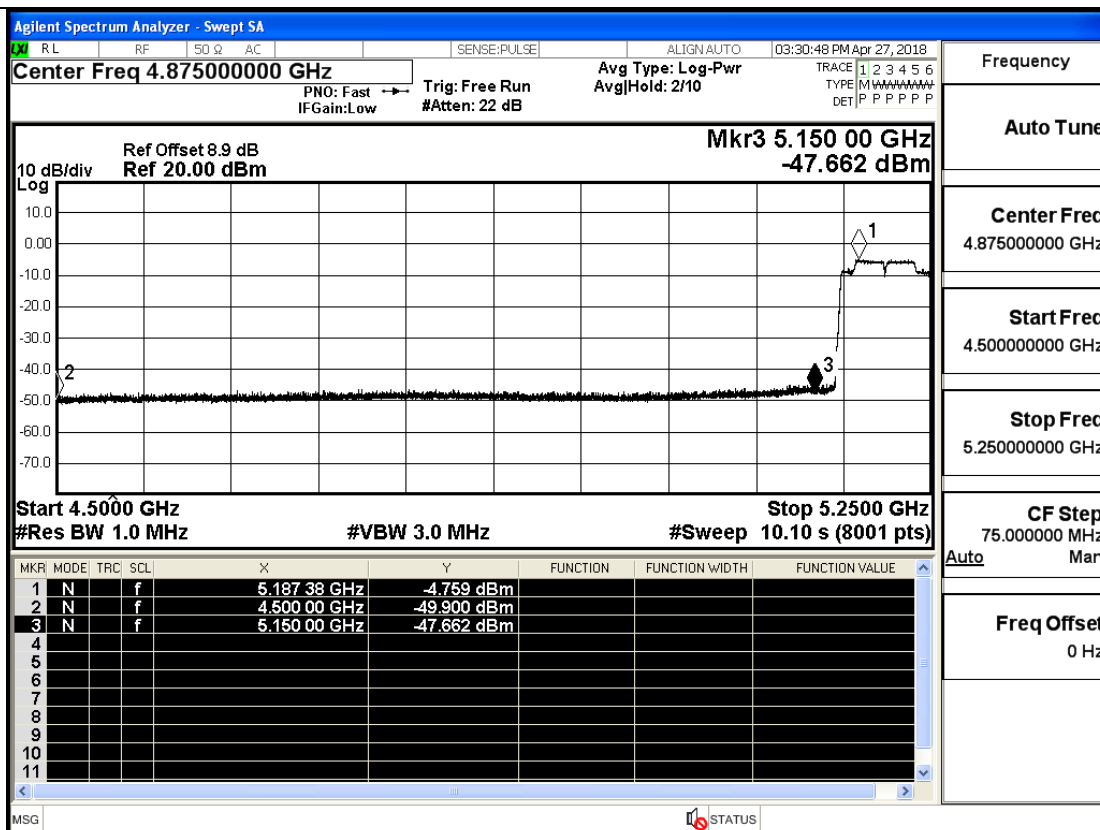
IEEE 802.11ac40 / Channel 36 / 5180MHz / Average



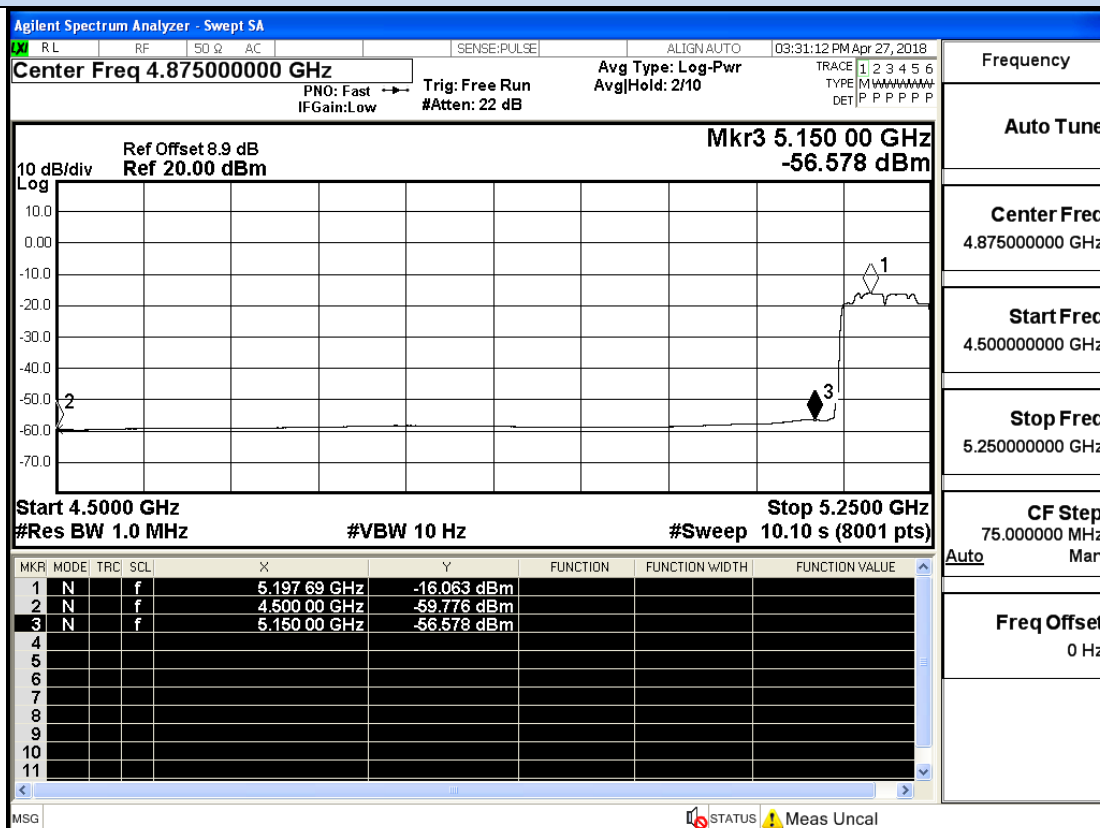
IEEE 802.11ac40 / Channel 48 / 5230MHz / Peak



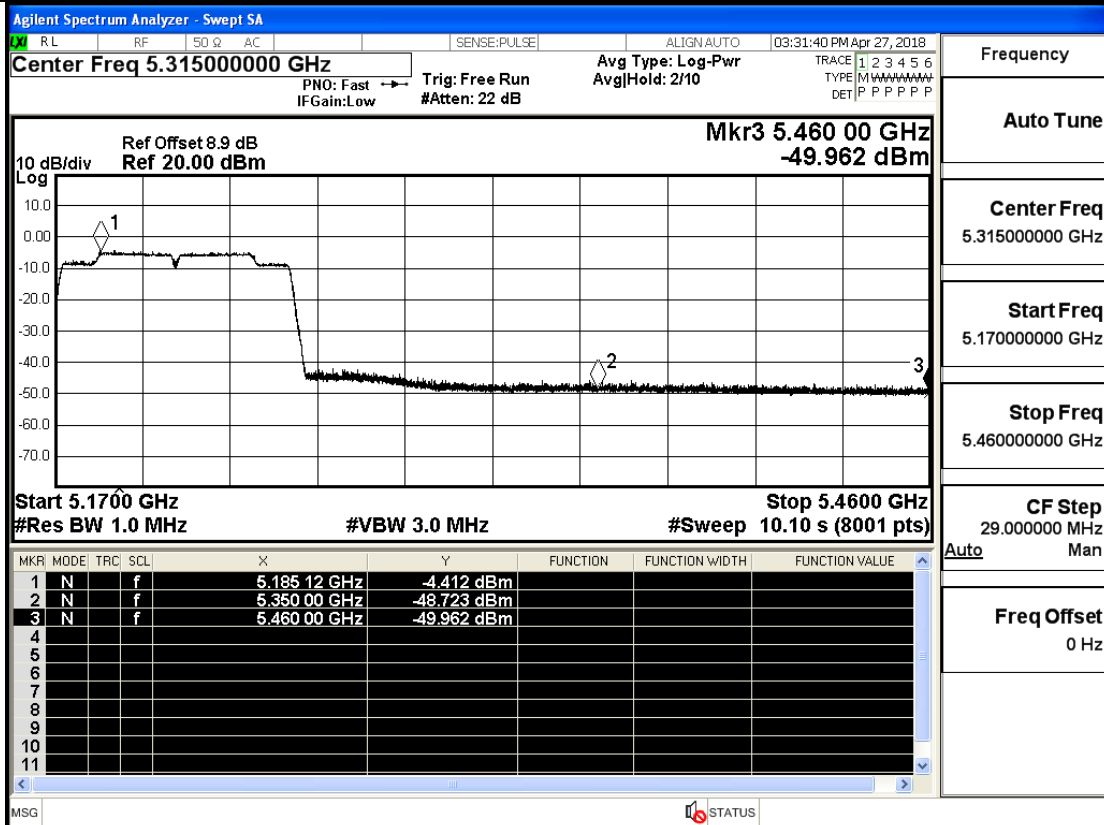
IEEE 802.11ac40 / Channel 48 / 5230MHz / Average



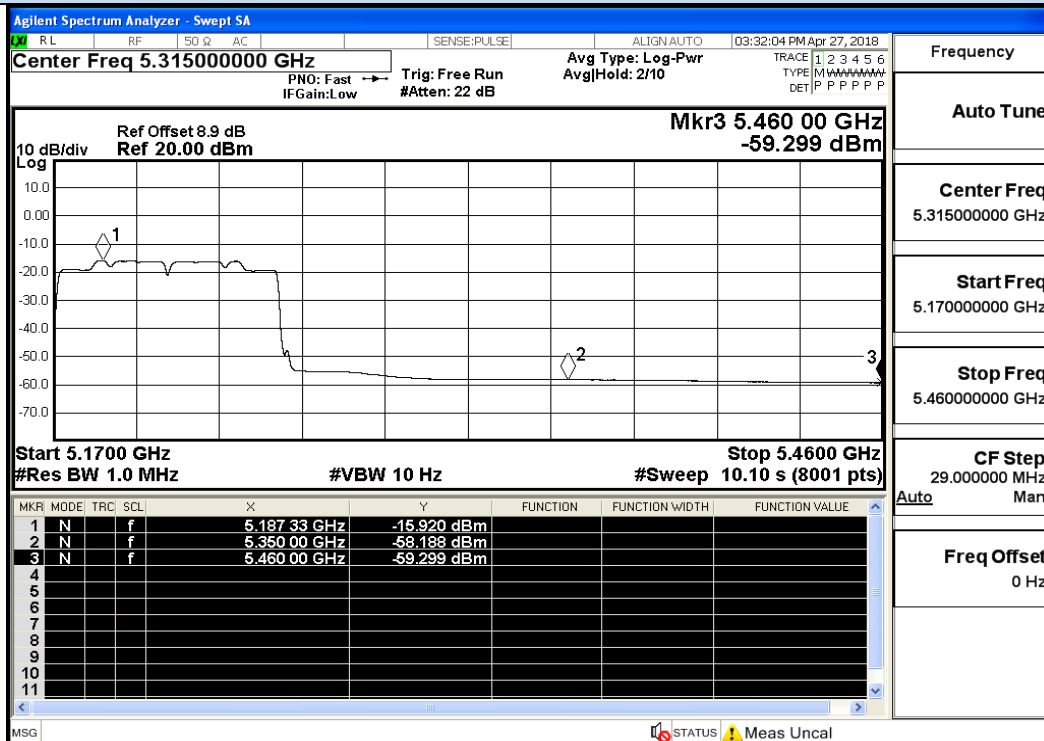
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42/ 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average