Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Formuler Z10 Pro
Trade Mark: FORMULER
Test Model: Z10 Pro

Environmental Conditions

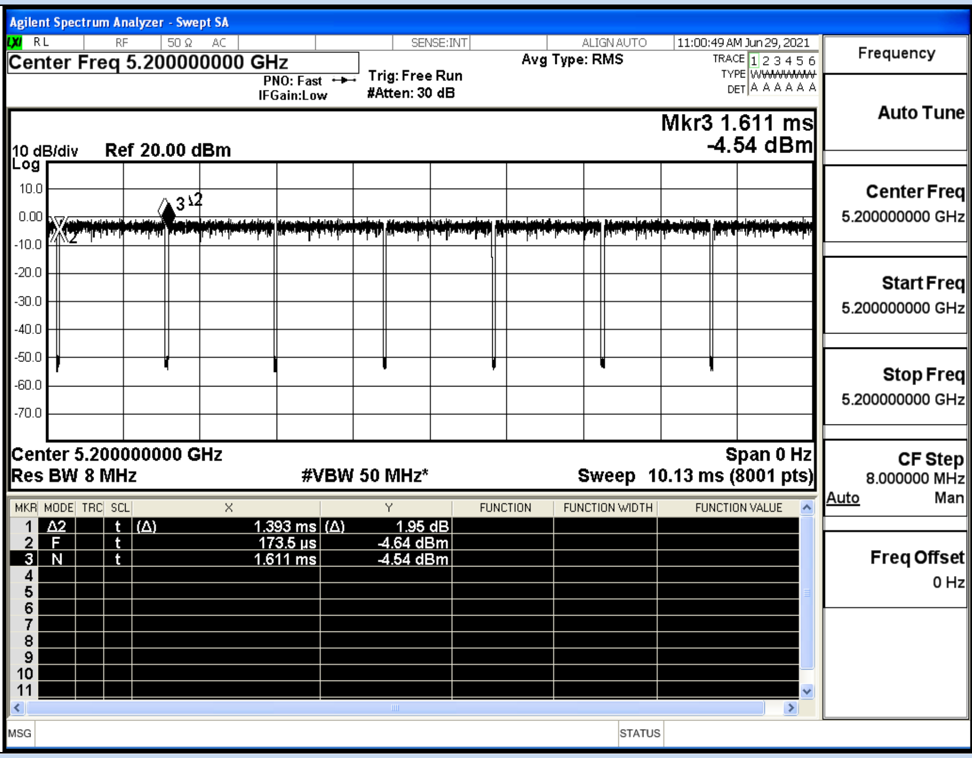
Temperature:	23.7° C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

D.1 Duty Cycle

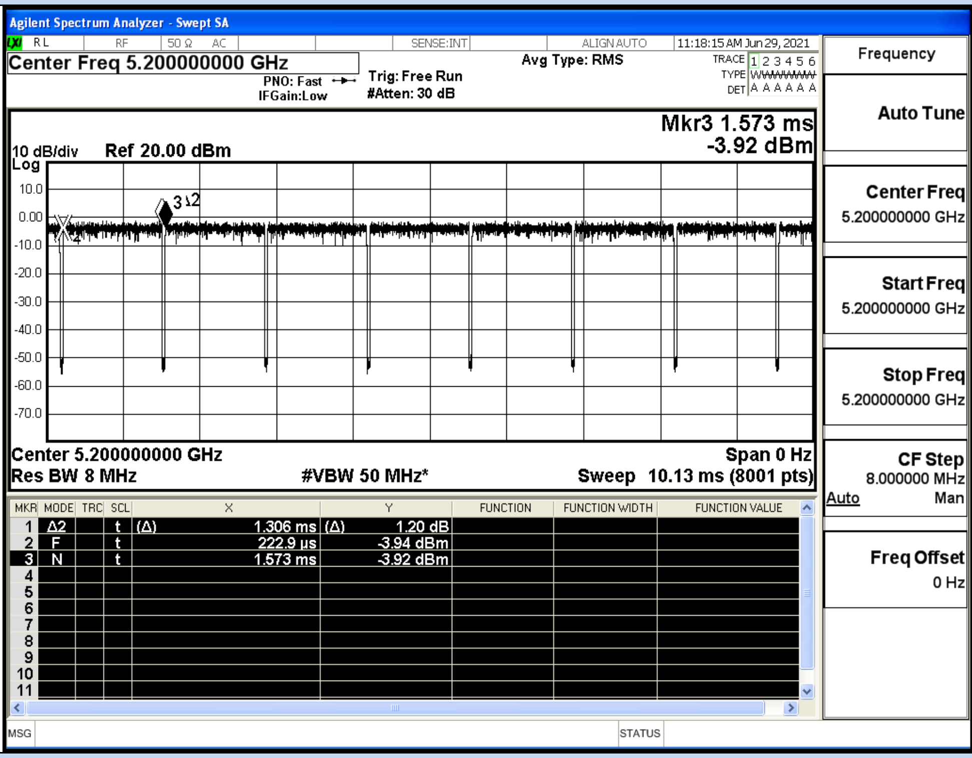
ANT0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	96.92	0.14	0.01
11N20 SISO	5200	96.72	0.14	0.01
11N40 SISO	5190	93.75	0.28	0.01
11AC20 SISO	5200	96.83	0.14	0.01
11AC40 SISO	5190	93.65	0.28	0.01
11AC80 SISO	5210	87.89	0.56	0.01

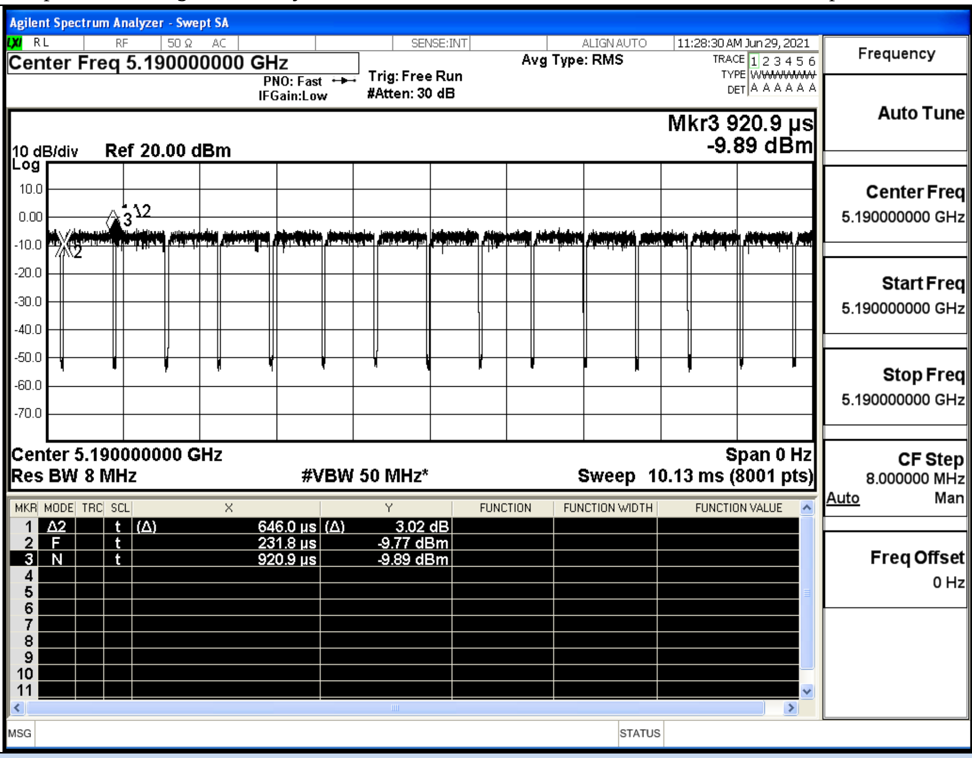
On Time and Duty Cycle



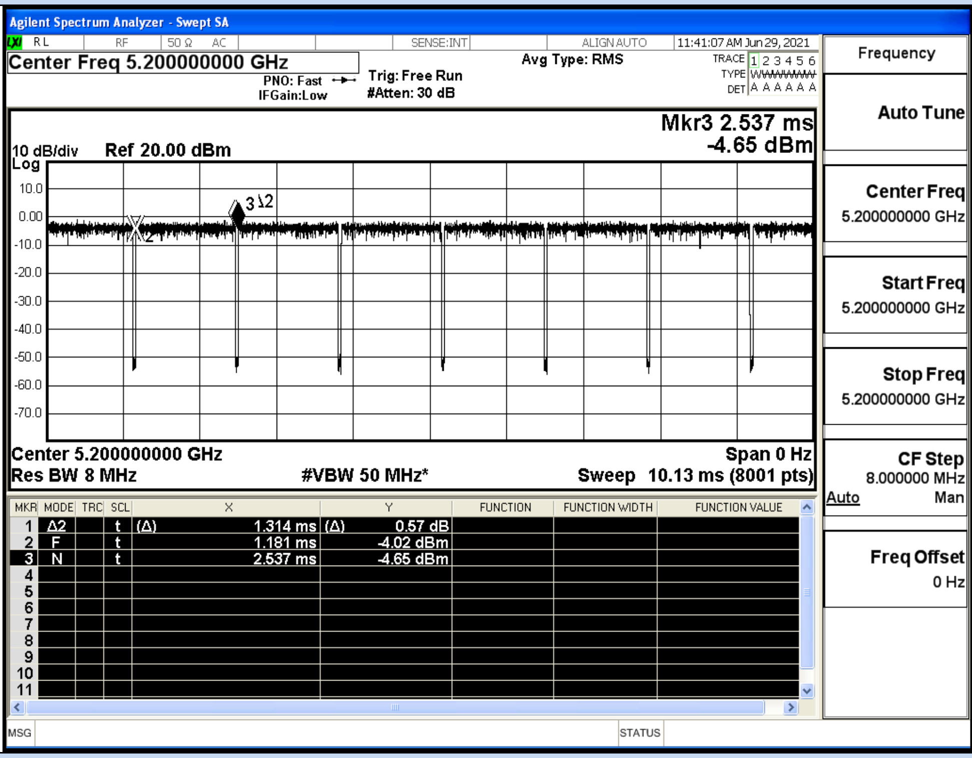
IEEE 802.11a



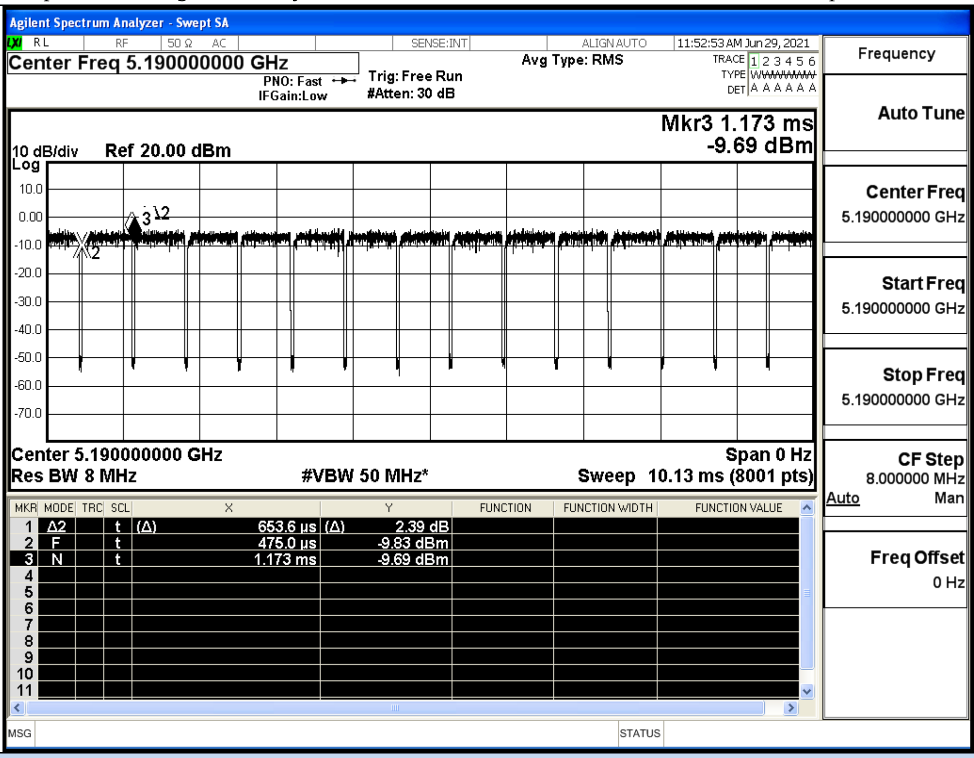
IEEE 802.11n HT20



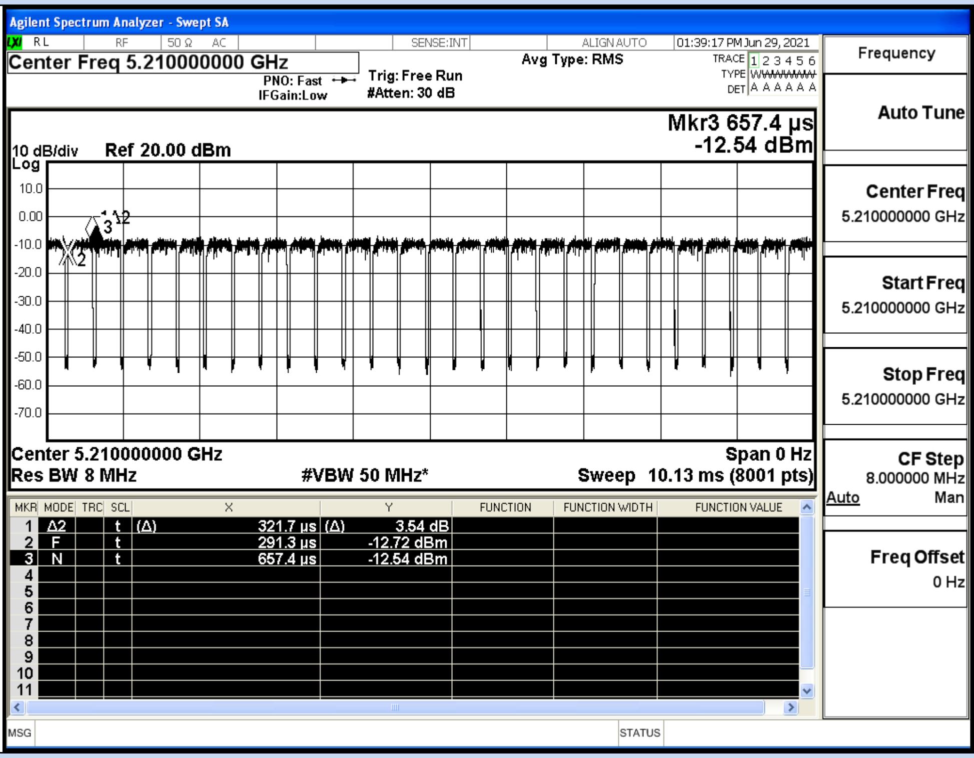
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40

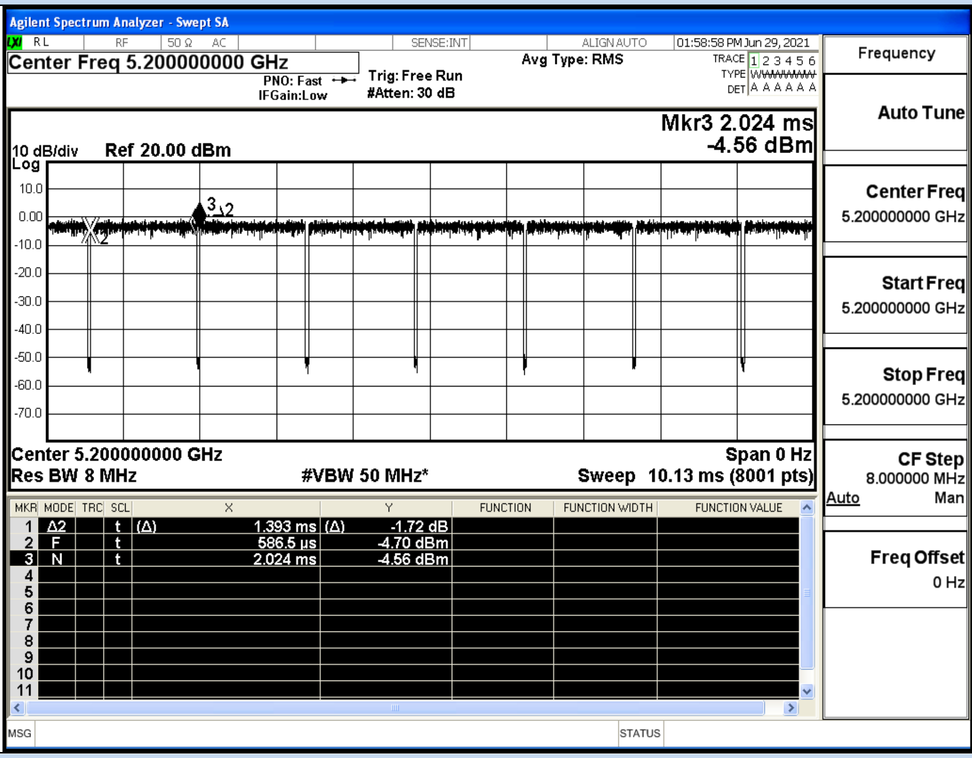


IEEE 802.11AC80

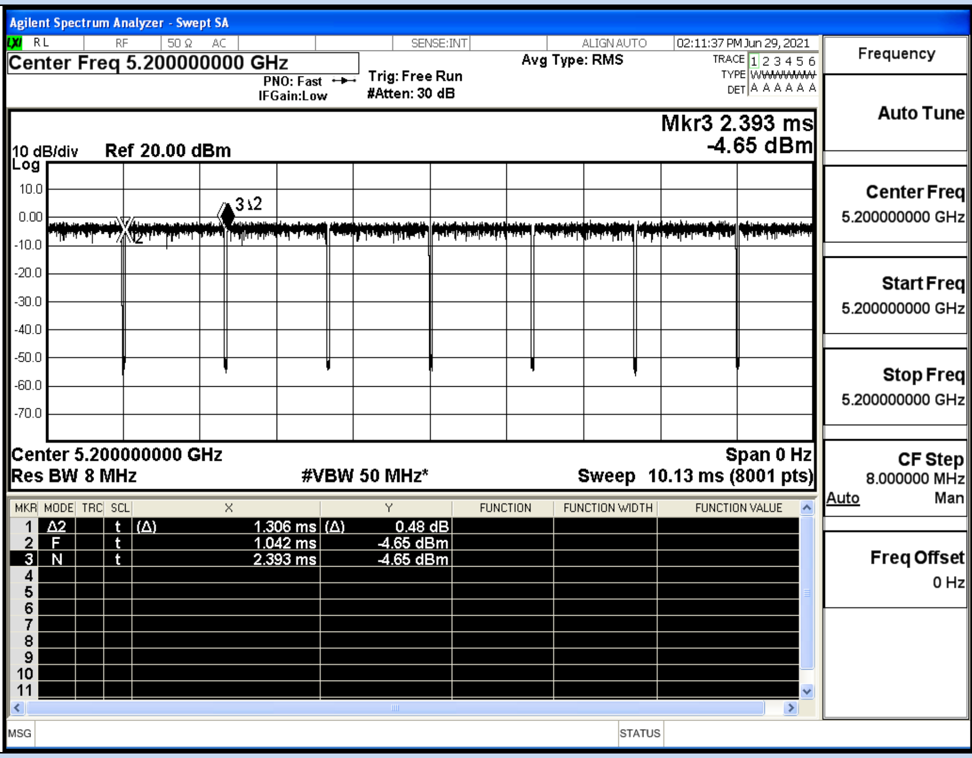
ANT1

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	96.92	0.14	0.01
11N20 SISO	5200	96.72	0.14	0.01
11N40 SISO	5190	93.57	0.29	0.01
11AC20 SISO	5200	96.92	0.14	0.01
11AC40 SISO	5190	93.82	0.28	0.01
11AC80 SISO	5210	87.89	0.56	0.01

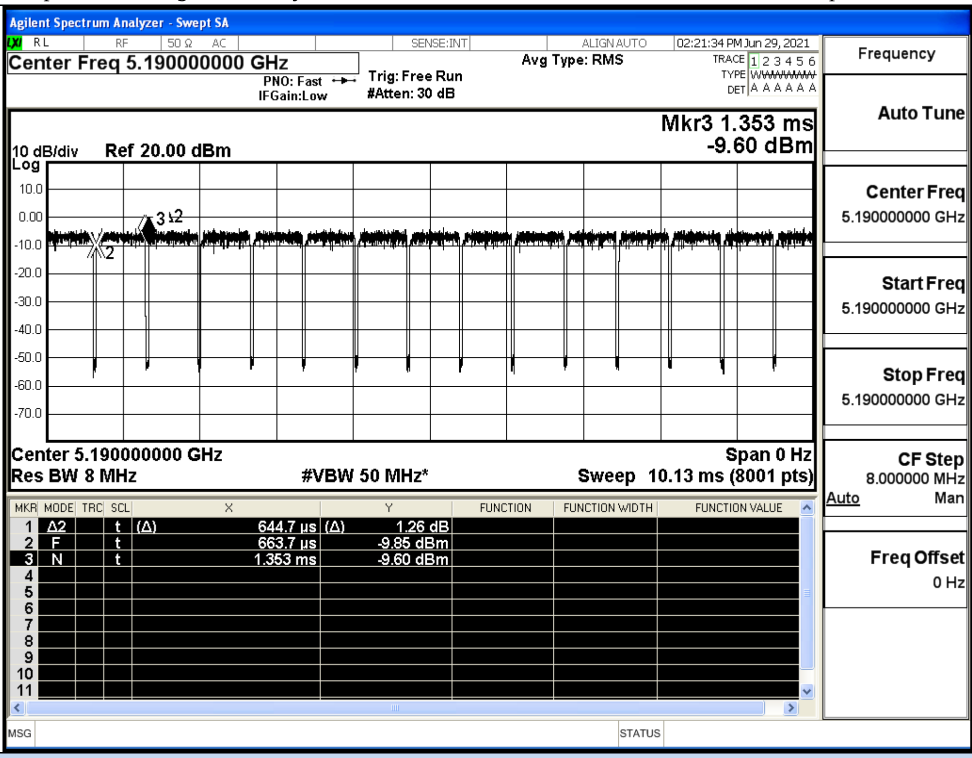
On Time and Duty Cycle



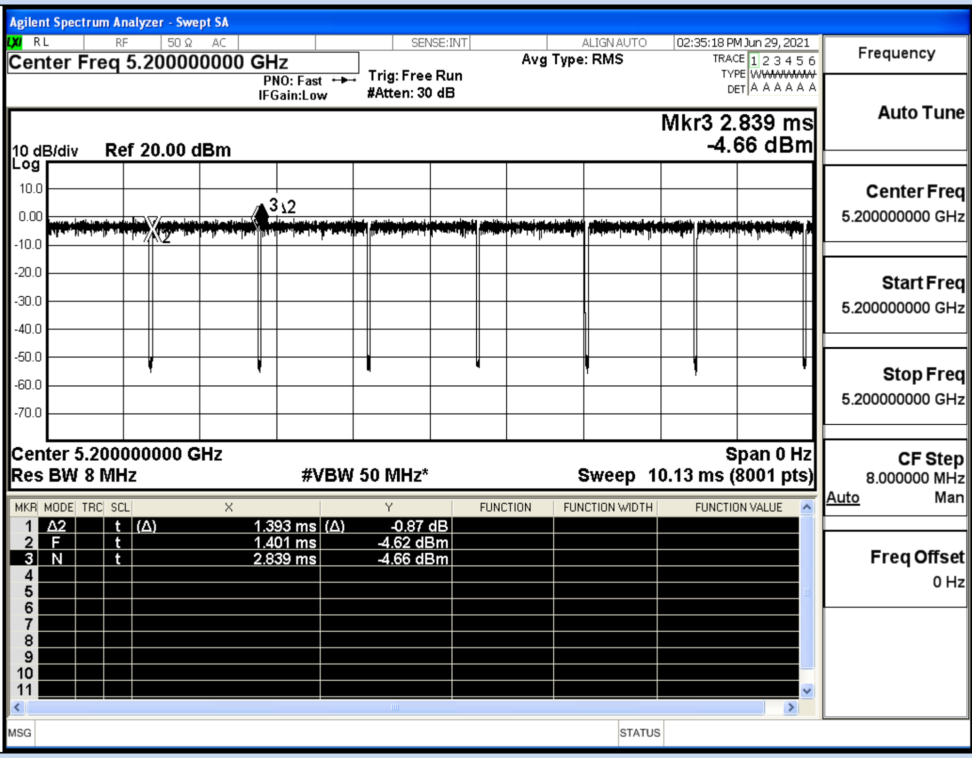
IEEE 802.11a



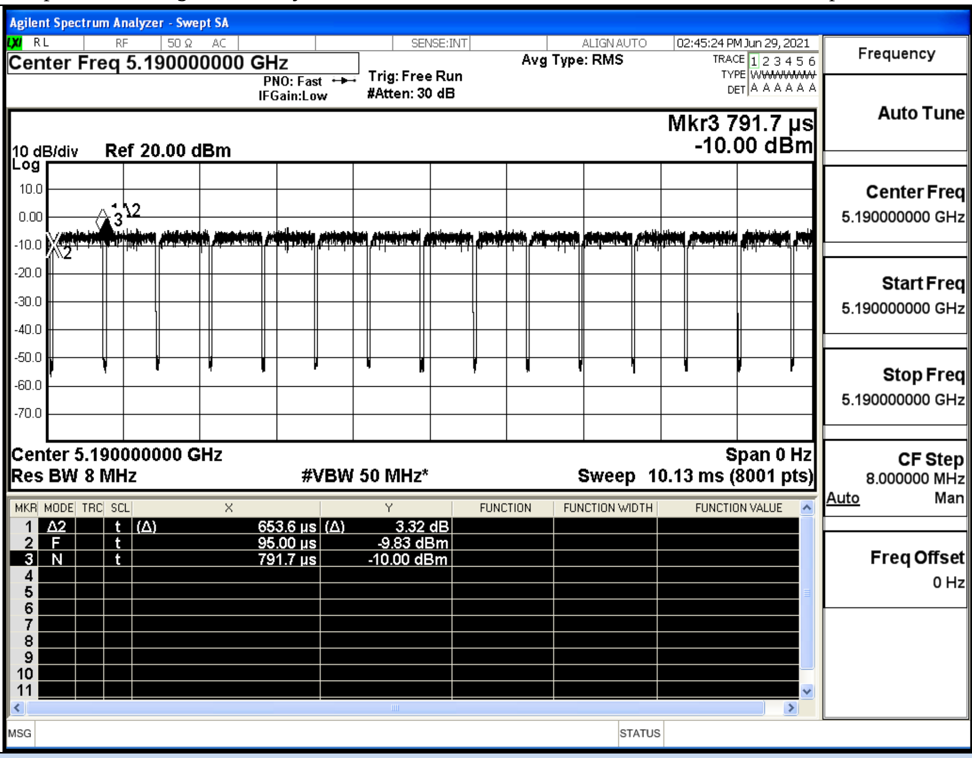
IEEE 802.11n HT20



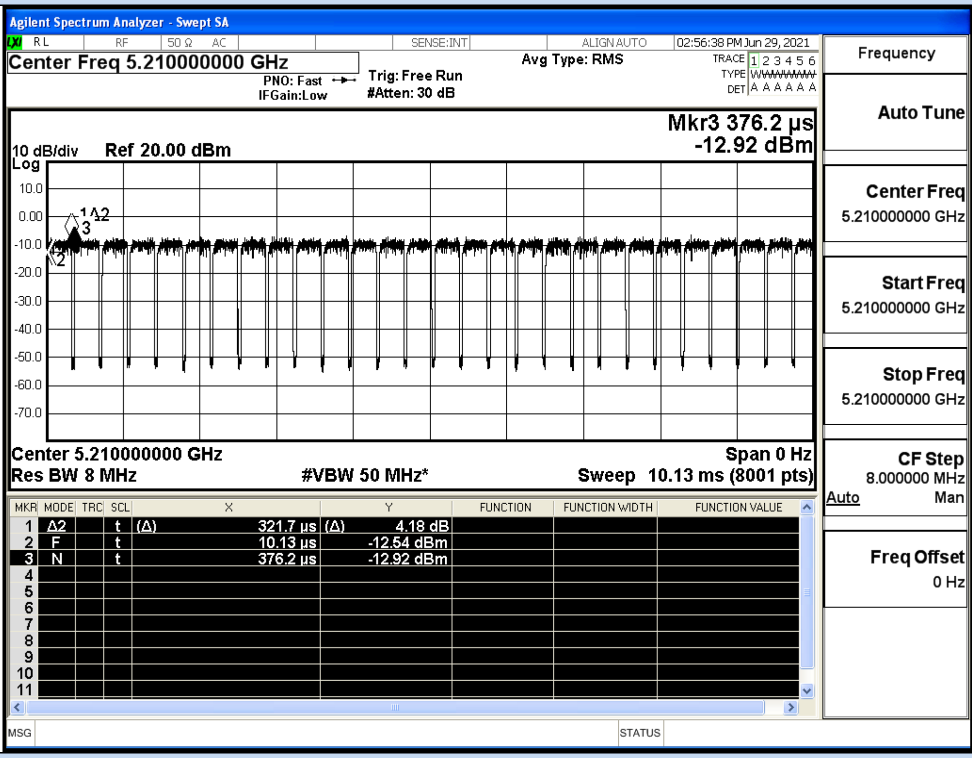
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



IEEE 802.11AC80

D.2 Maximum Conduct Output Power

ANT0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Limit (dBm)	Verdict
11A	36	5180	12.39	24	Pass
	40	5200	12.7		Pass
	48	5240	12.93		Pass
11N20 SISO	36	5180	12.03	24	Pass
	40	5200	12.39		Pass
	48	5240	12.66		Pass
11N40 SISO	38	5190	12.41	24	Pass
	46	5230	12.65		Pass
11AC20 SISO	36	5180	11.94	24	Pass
	40	5200	12.3		Pass
	48	5240	12.58		Pass
11AC40 SISO	38	5190	12.36	24	Pass
	46	5230	12.7		Pass
11AC80 SISO	42	5210	12.52	24	Pass

ANT1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Limit (dBm)	Verdict
11A	36	5180	12.75	24	Pass
	40	5200	13.01		Pass
	48	5240	13.04		Pass
11N20 SISO	36	5180	11.98	24	Pass
	40	5200	12.38		Pass
	48	5240	12.65		Pass
11N40 SISO	38	5190	12.4	24	Pass
	46	5230	12.78		Pass
11AC20 SISO	36	5180	12.4	24	Pass
	40	5200	12.66		Pass
	48	5240	13.07		Pass
11AC40 SISO	38	5190	12.28	24	Pass
	46	5230	12.64		Pass
11AC80 SISO	42	5210	12.49	24	Pass

MIMO

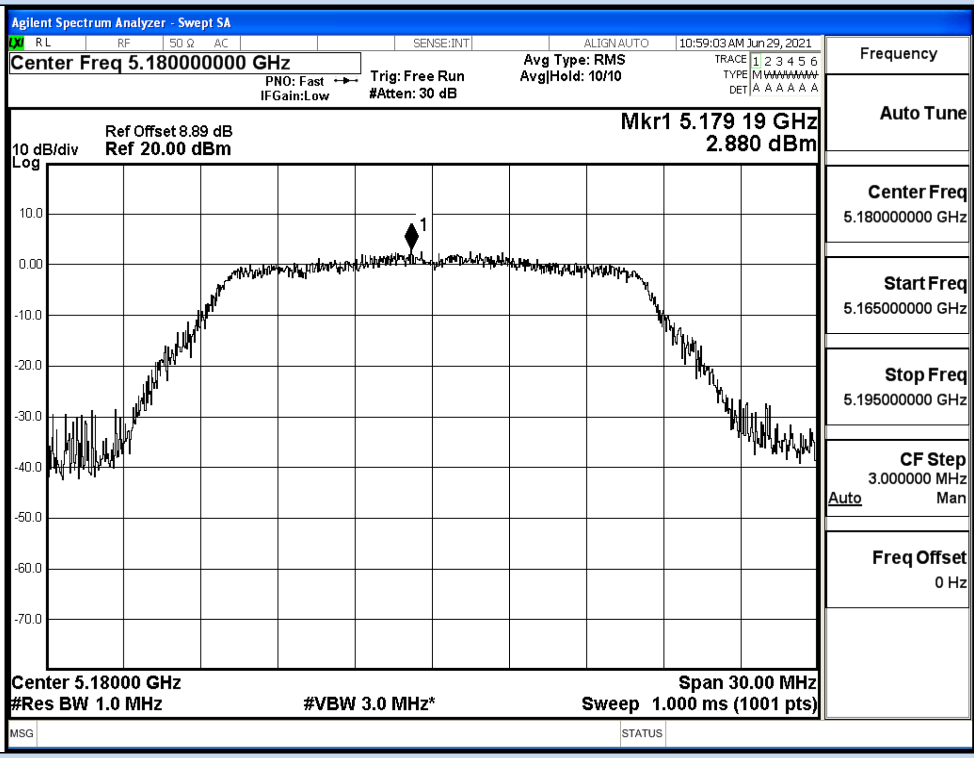
Test Mode	Channel	Frequency (MHz)	ANT 0 AVG Conducted Power (dBm)	ANT 1 AVG Conducted Power (dBm)	MIMO AVG Conducted Power (dBm)	Limit (dBm)	Verdict
11N20	36	5180	12.03	11.98	15.02	24	Pass
	40	5200	12.39	12.38	15.40		Pass
	48	5240	12.66	12.65	15.67		Pass
11N40	38	5190	12.41	12.4	15.42	24	Pass
	46	5230	12.65	12.78	15.73		Pass
11AC20	36	5180	11.94	12.4	15.19	24	Pass
	40	5200	12.3	12.66	15.34		Pass
	48	5240	12.58	13.07	15.75		Pass
11AC40	38	5190	12.36	12.28	15.48	24	Pass
	46	5230	12.7	12.64	15.53		Pass
11AC80	42	5210	12.52	12.49	15.65	24	Pass

D.3 Power Spectral Density

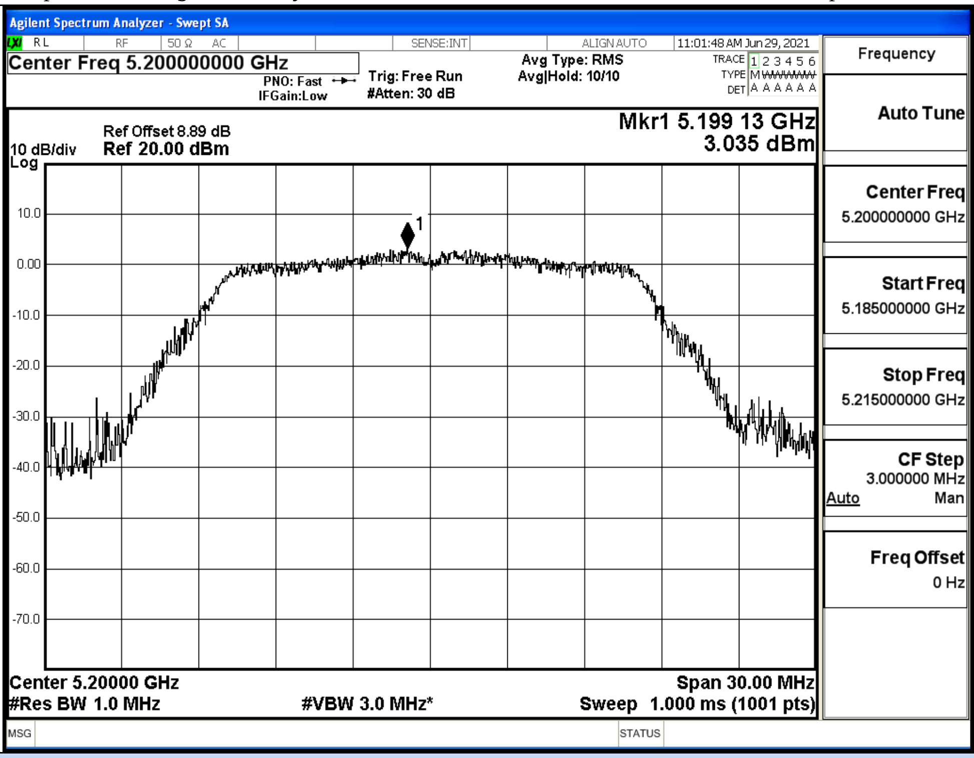
ANT0

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	2.88	0.14	3.02	11	Pass
	40	5200	3.04	0.14	3.18		Pass
	48	5240	2.92	0.14	3.06		Pass
11N20 SISO	36	5180	1.95	0.14	2.10	11	Pass
	40	5200	2.12	0.14	2.26		Pass
	48	5240	2.92	0.28	3.07		Pass
11N40 SISO	38	5190	-0.26	0.28	0.02	11	Pass
	46	5230	1.07	0.28	1.36		Pass
11AC20 SISO	36	5180	1.97	0.14	2.11	11	Pass
	40	5200	2.27	0.14	2.41		Pass
	48	5240	2.49	0.14	2.63		Pass
11AC40 SISO	38	5190	-0.33	0.28	-0.05	11	Pass
	46	5230	0.14	0.28	0.42		Pass
11AC80 SISO	42	5210	-2.92	0.56	-2.36	11	Pass

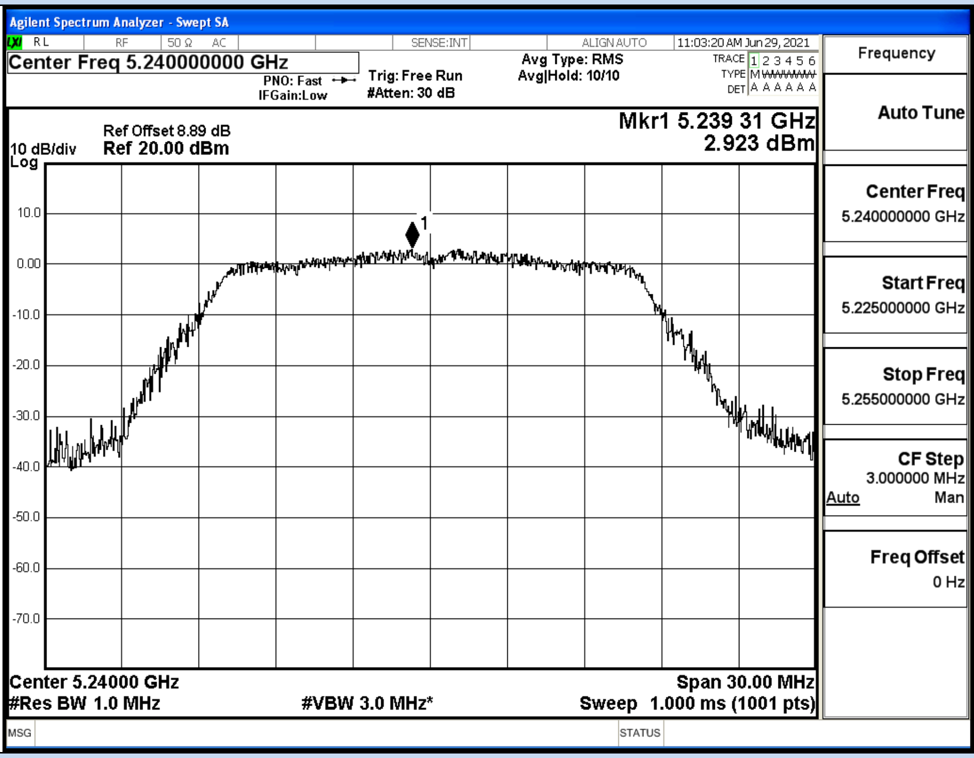
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180MHz

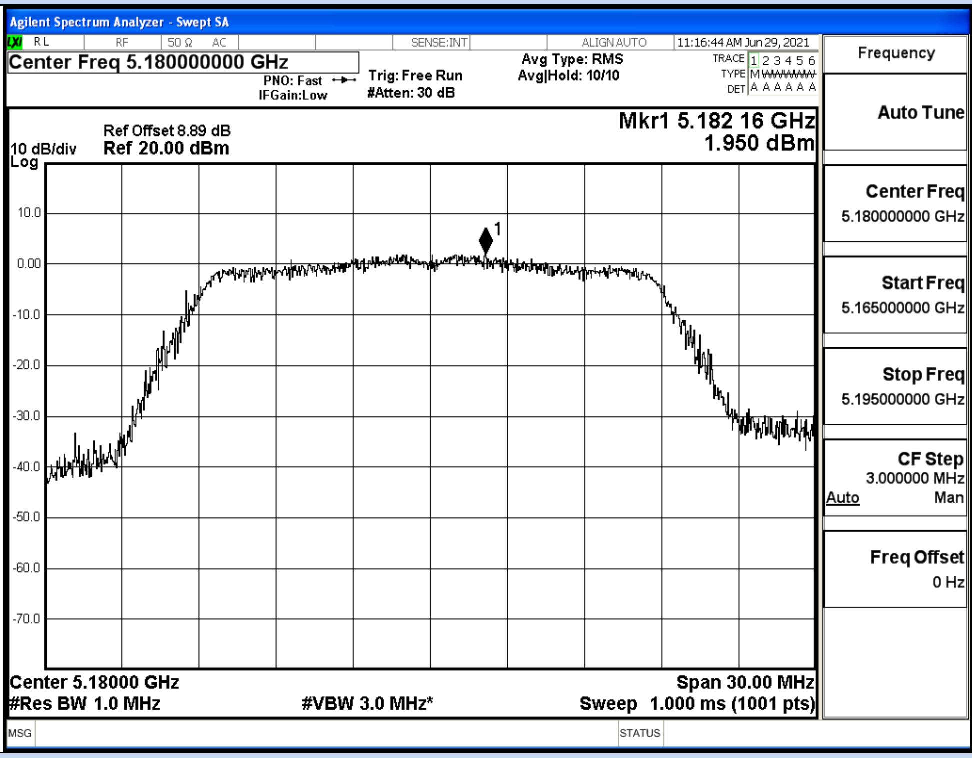


IEEE 802.11na / Channel 40 / 5200MHz

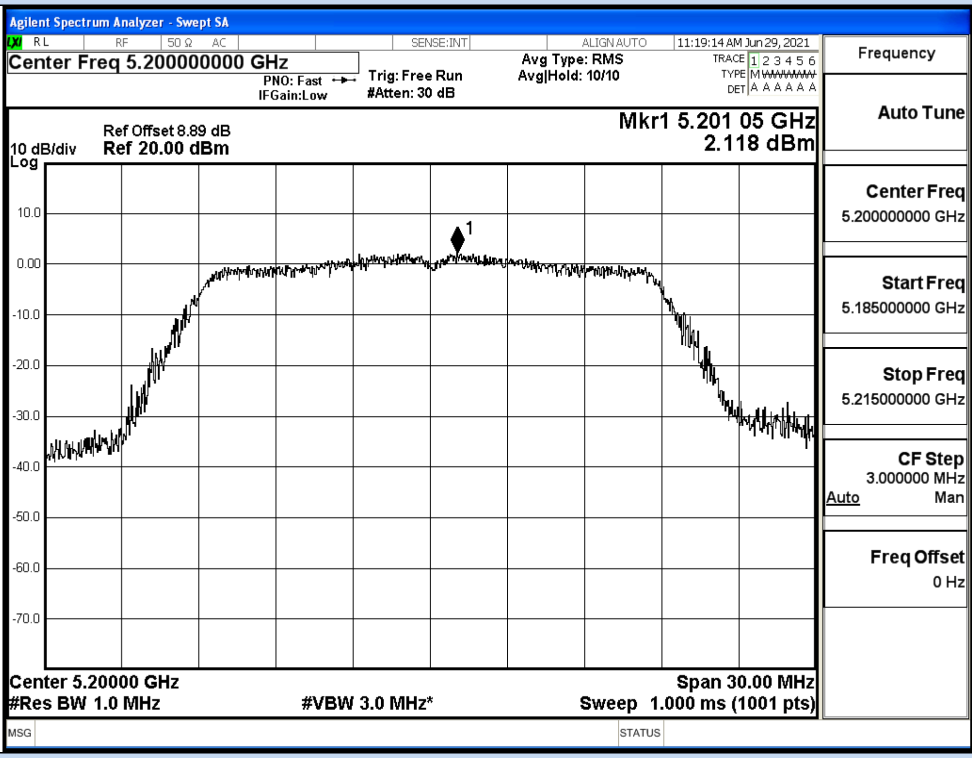


IEEE 802.11na / Channel 48 / 5240MHz

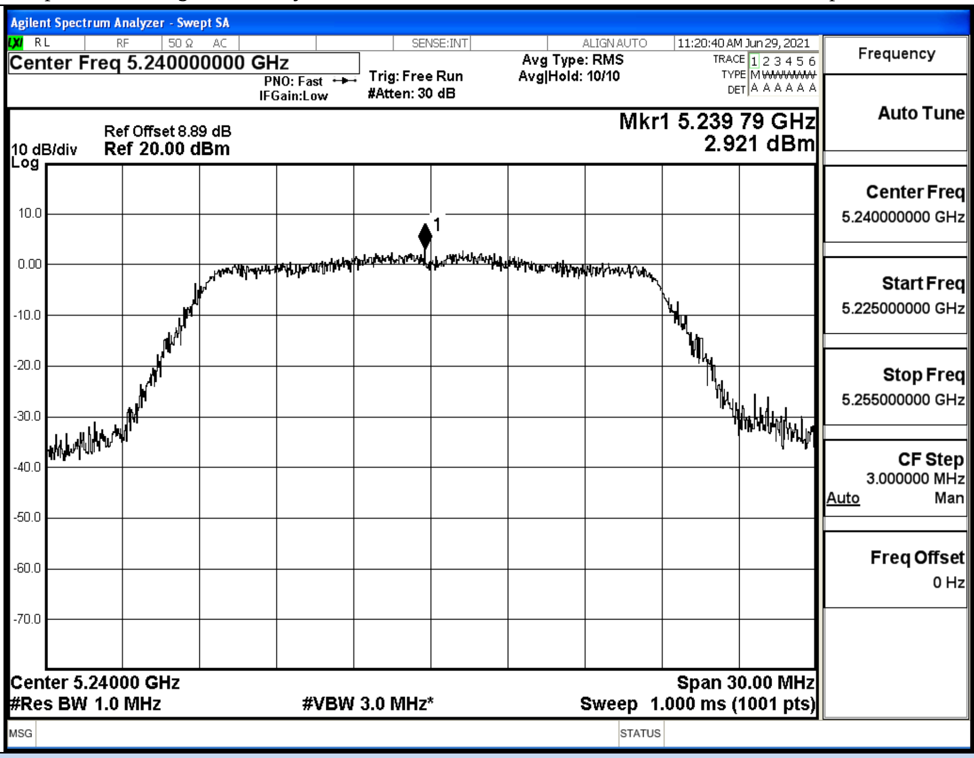
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

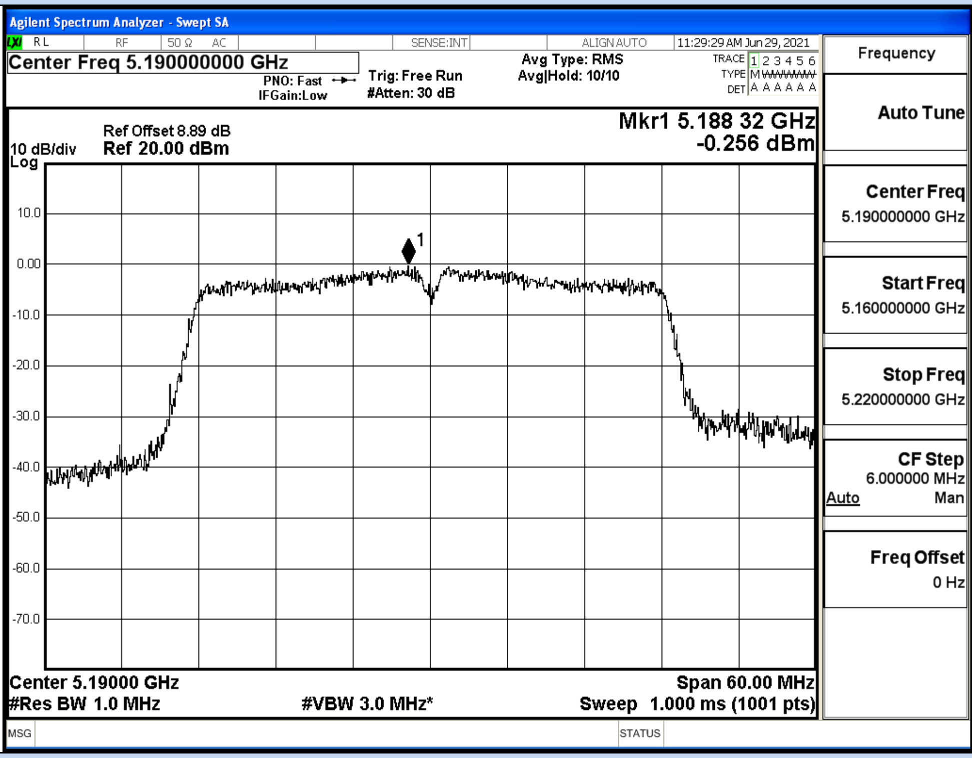


IEEE 802.11n20 / Channel 40 / 5200MHz

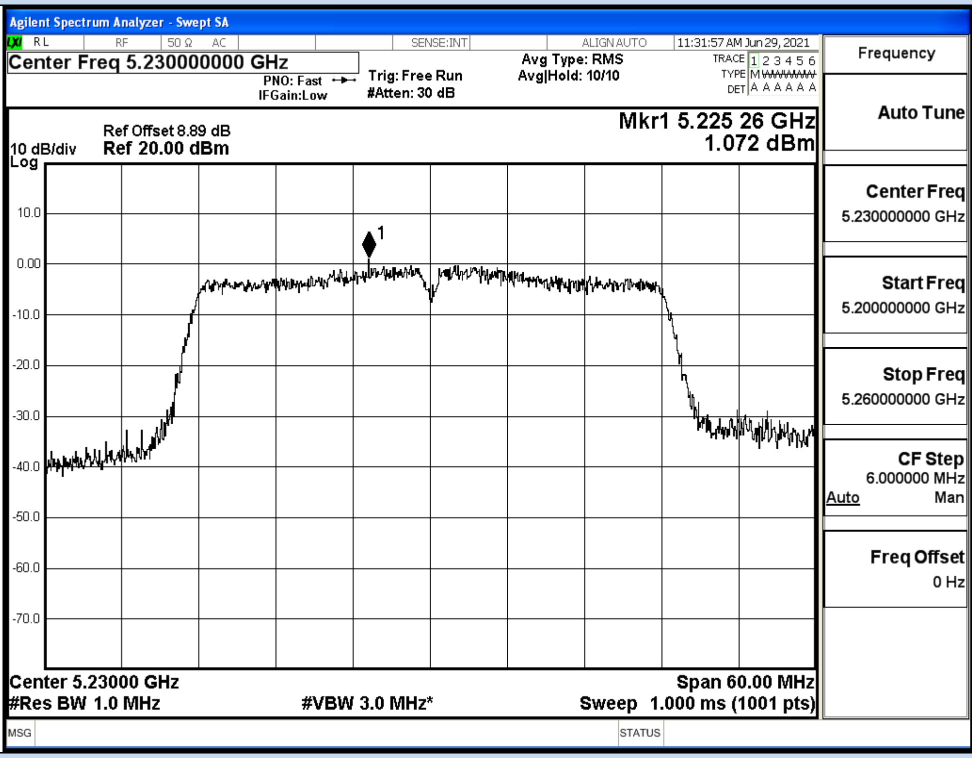


IEEE 802.11n20 / Channel 48 / 5240MHz

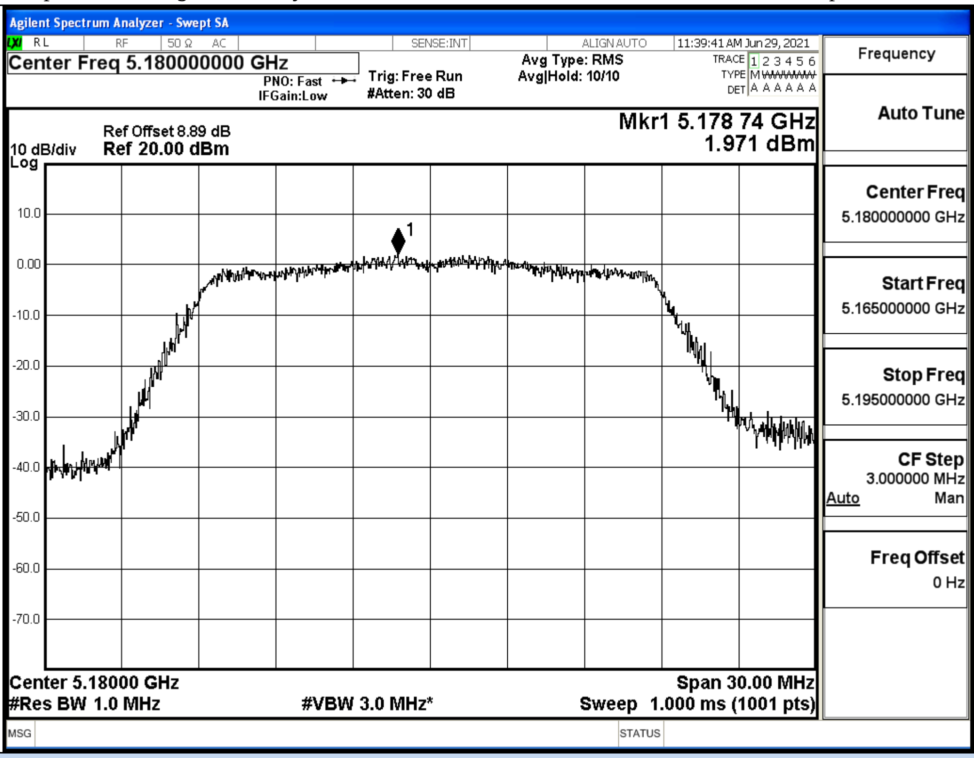
Power Spectral Density



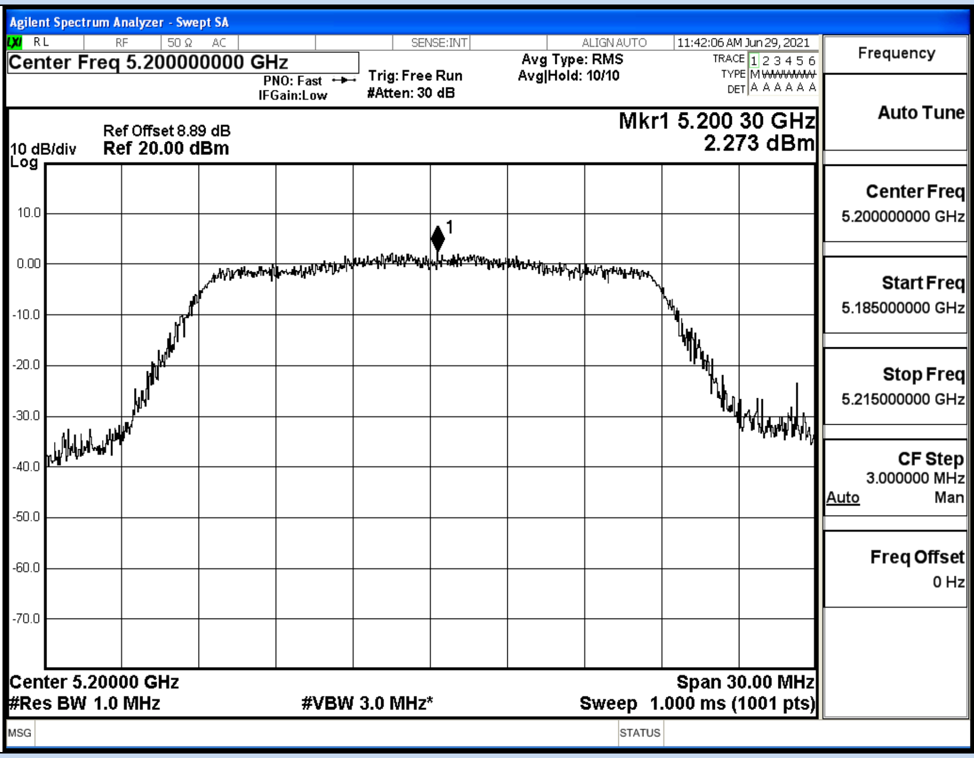
IEEE 802.11n40 / Channel 38 / 5190MHz



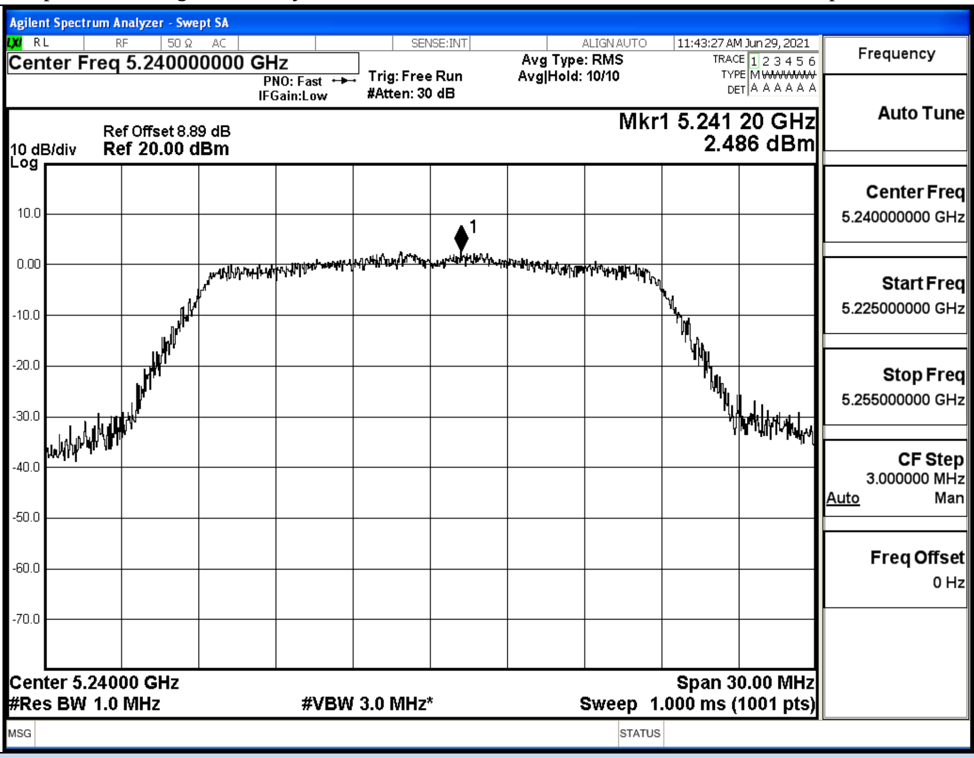
IEEE 802.11n40 / Channel 46 / 5230MHz



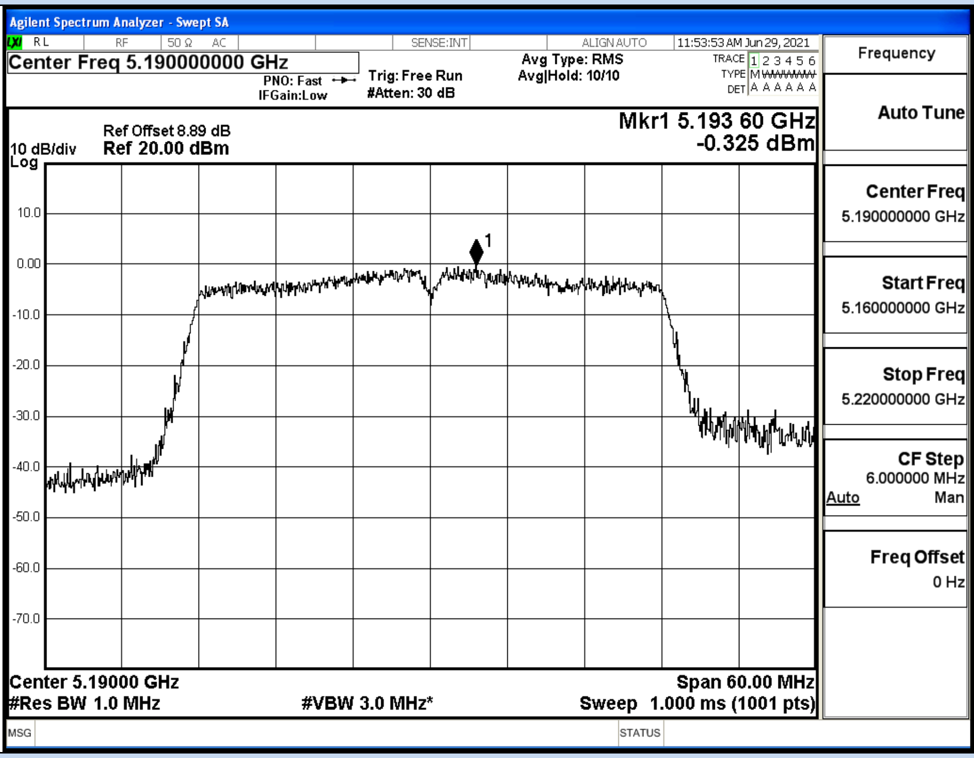
IEEE 802.11ac20 / Channel 36 / 5180MHz



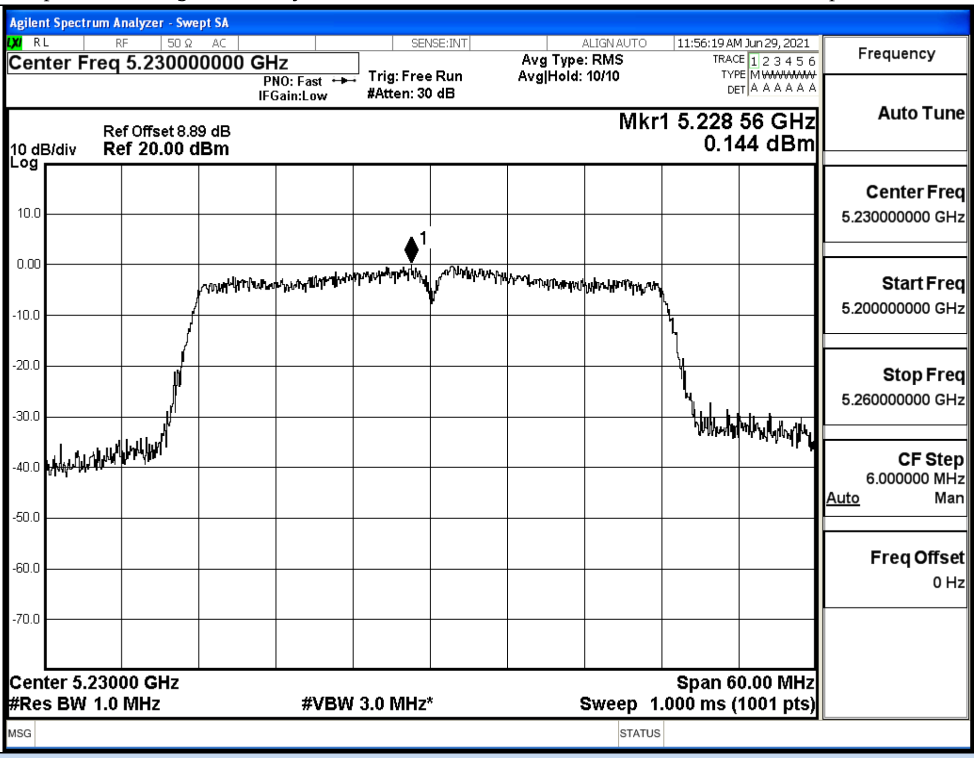
IEEE 802.11ac20 / Channel 40 / 5200MHz



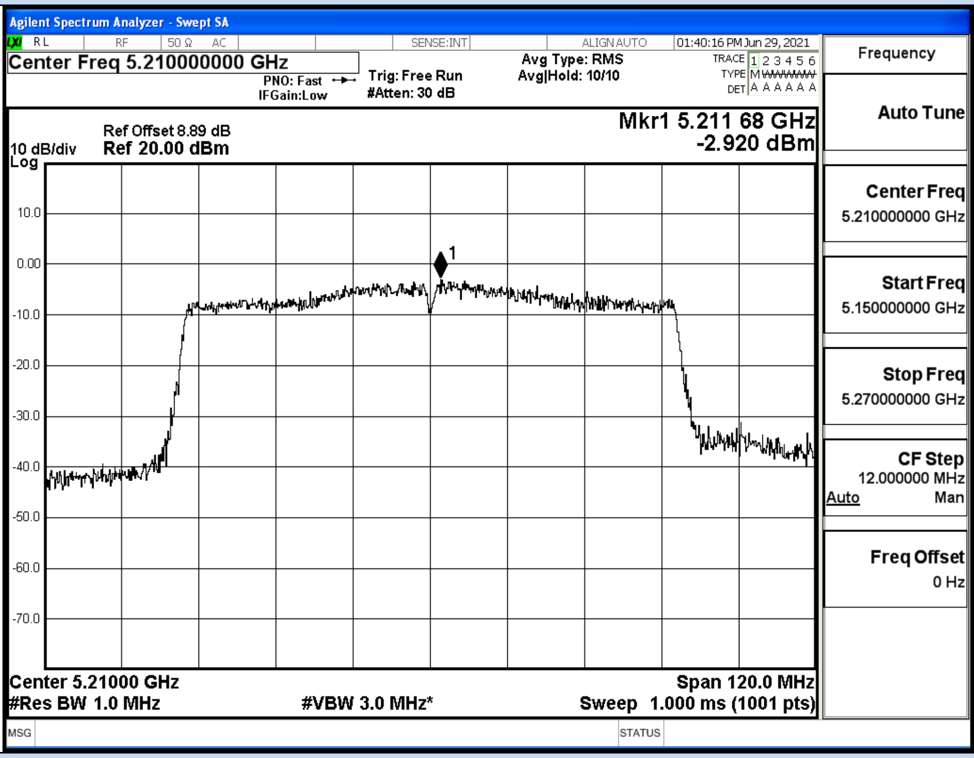
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

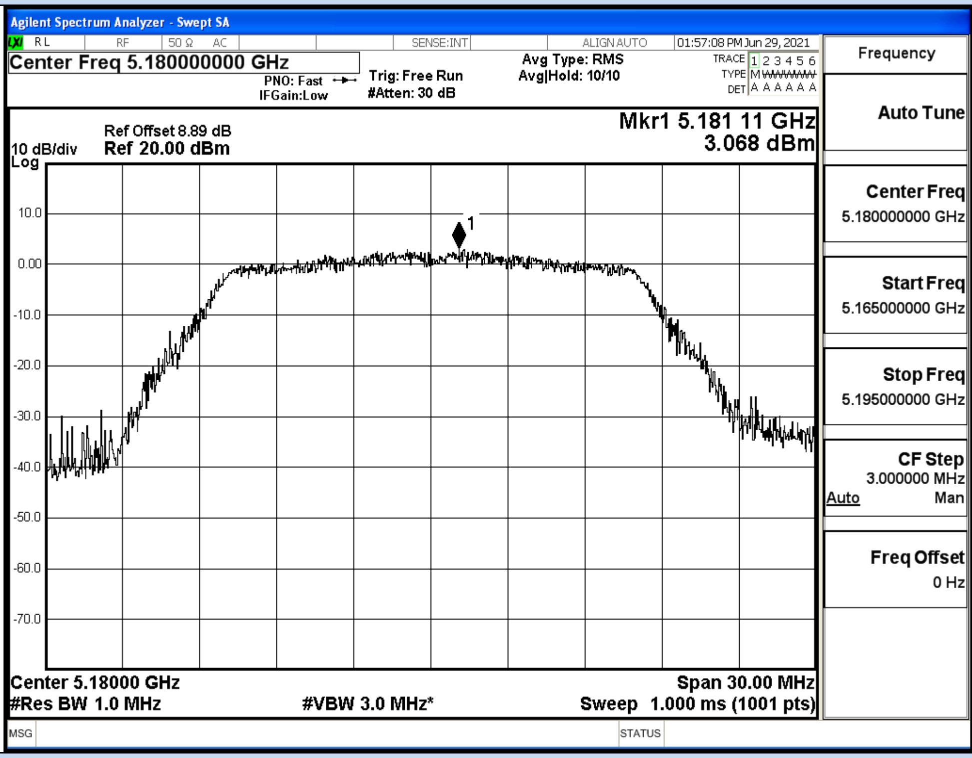


IEEE 802.11ac80 / Channel 42 / 5210MHz

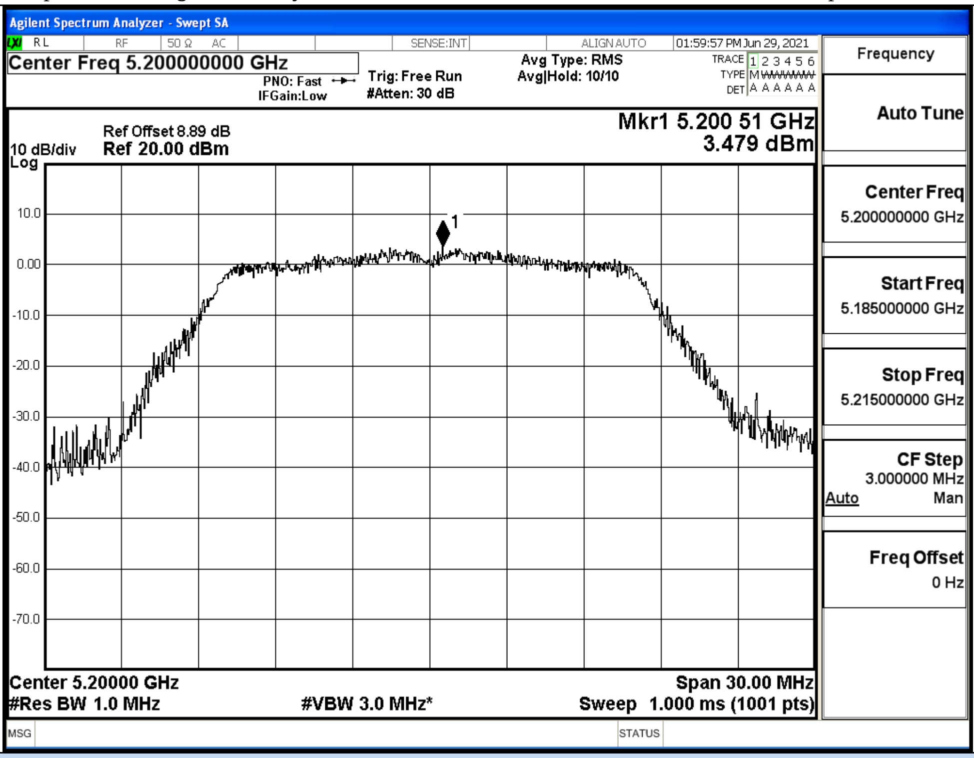
ANT1

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	3.07	0.14	3.21	11	Pass
	40	5200	3.48	0.14	3.62		Pass
	48	5240	3.10	0.14	3.24		Pass
11N20 SISO	36	5180	2.13	0.14	2.27	11	Pass
	40	5200	2.31	0.14	2.45		Pass
	48	5240	3.31	0.14	3.46		Pass
11N40 SISO	38	5190	-0.19	0.29	0.10	11	Pass
	46	5230	-0.23	0.29	0.07		Pass
11AC20 SISO	36	5180	2.72	0.14	2.86	11	Pass
	40	5200	3.39	0.14	3.53		Pass
	48	5240	3.51	0.14	3.65		Pass
11AC40 SISO	38	5190	-0.13	0.28	0.15	11	Pass
	46	5230	-0.05	0.28	0.23		Pass
11AC80 SISO	42	5210	-3.30	0.56	-2.74	11	Pass

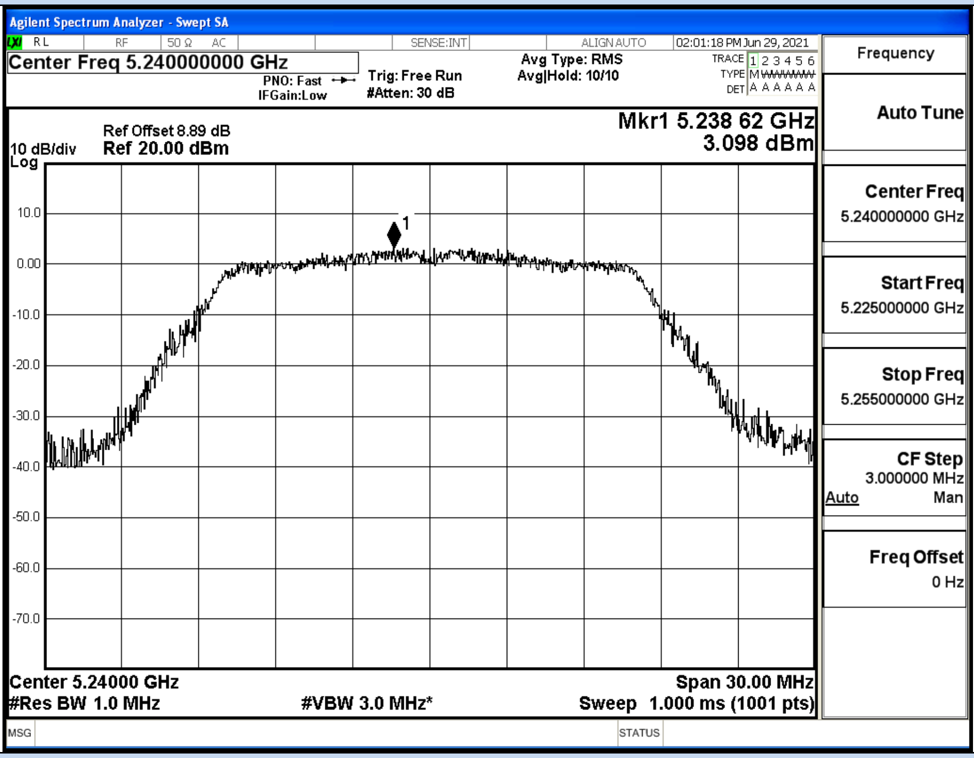
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180MHz

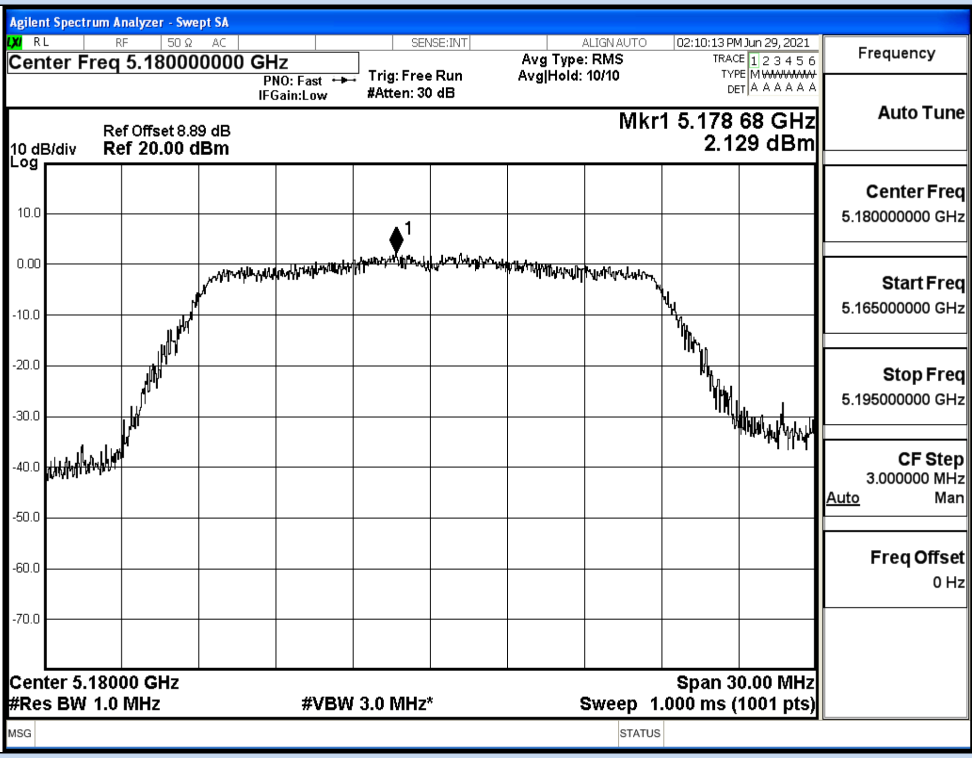


IEEE 802.11na / Channel 40 / 5200MHz

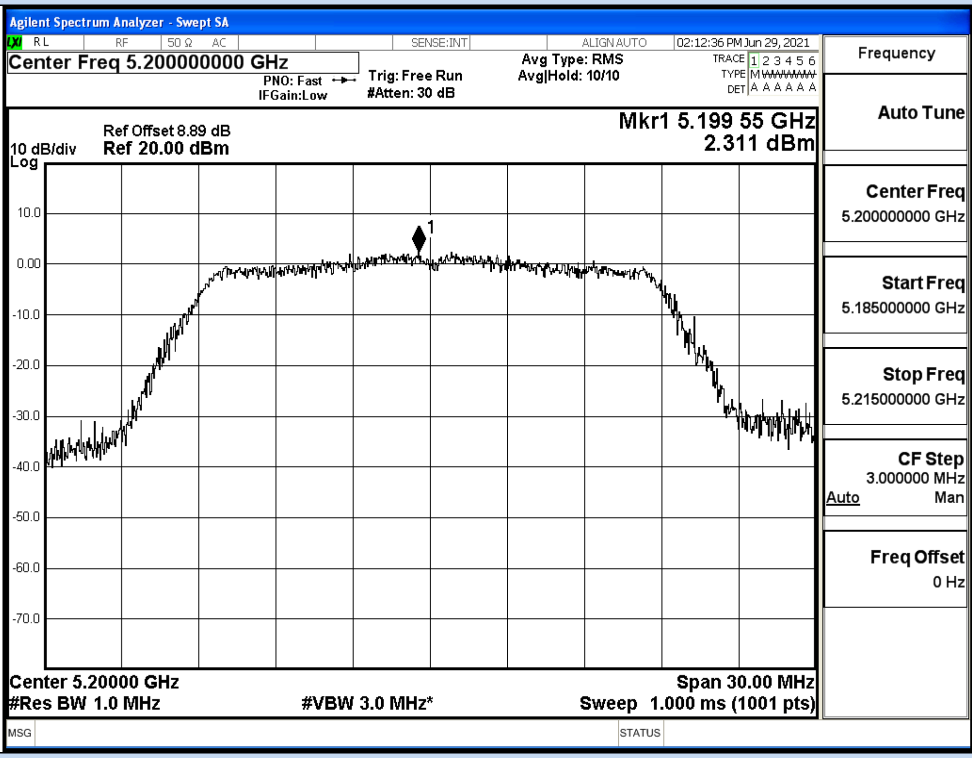


IEEE 802.11na / Channel 48 / 5240MHz

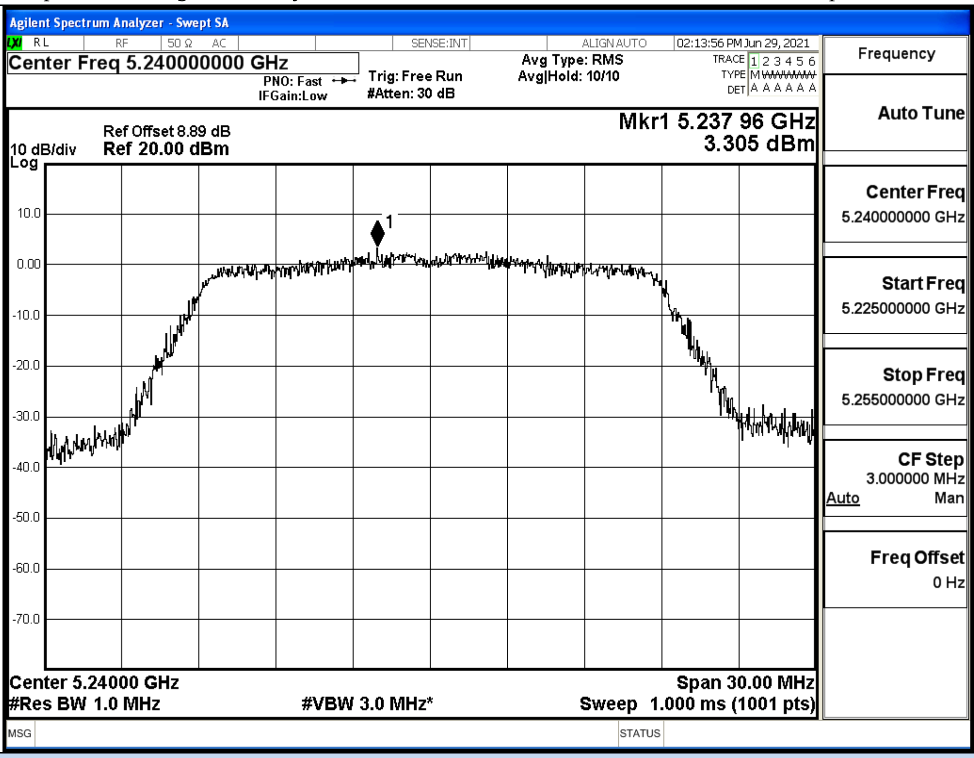
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

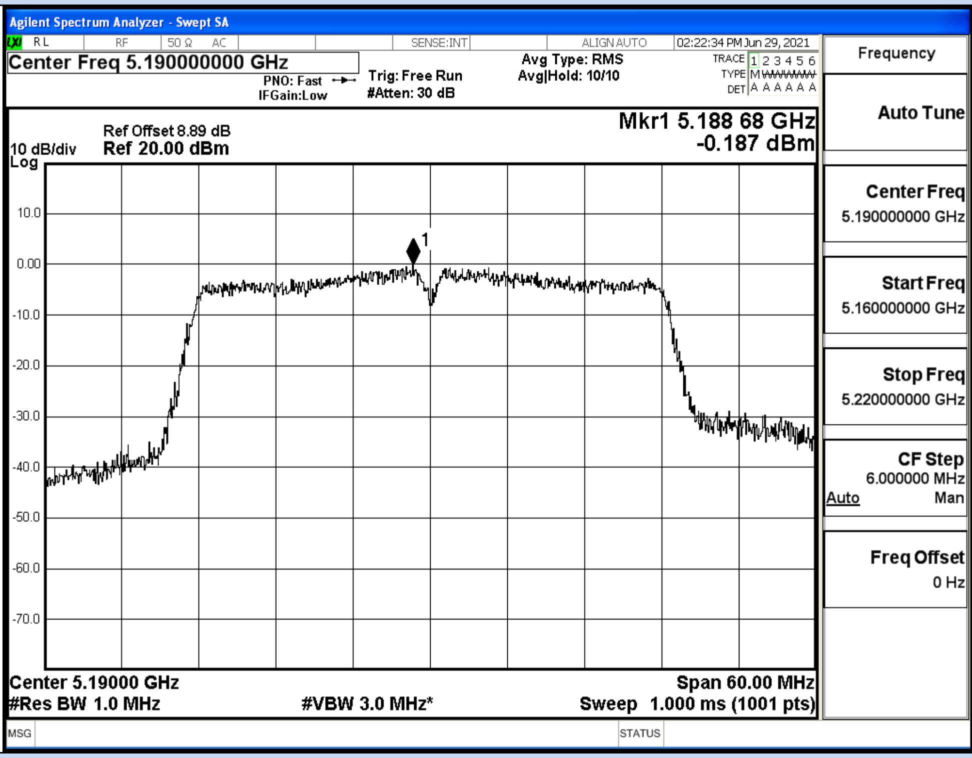


IEEE 802.11n20 / Channel 40 / 5200MHz

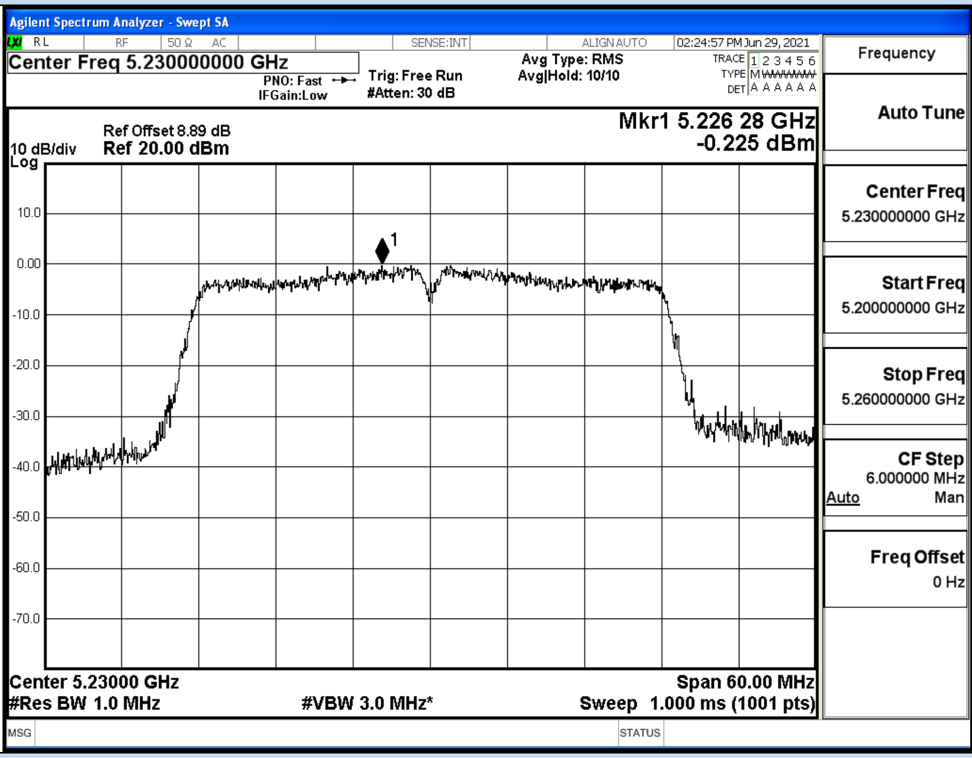


IEEE 802.11n20 / Channel 48 / 5240MHz

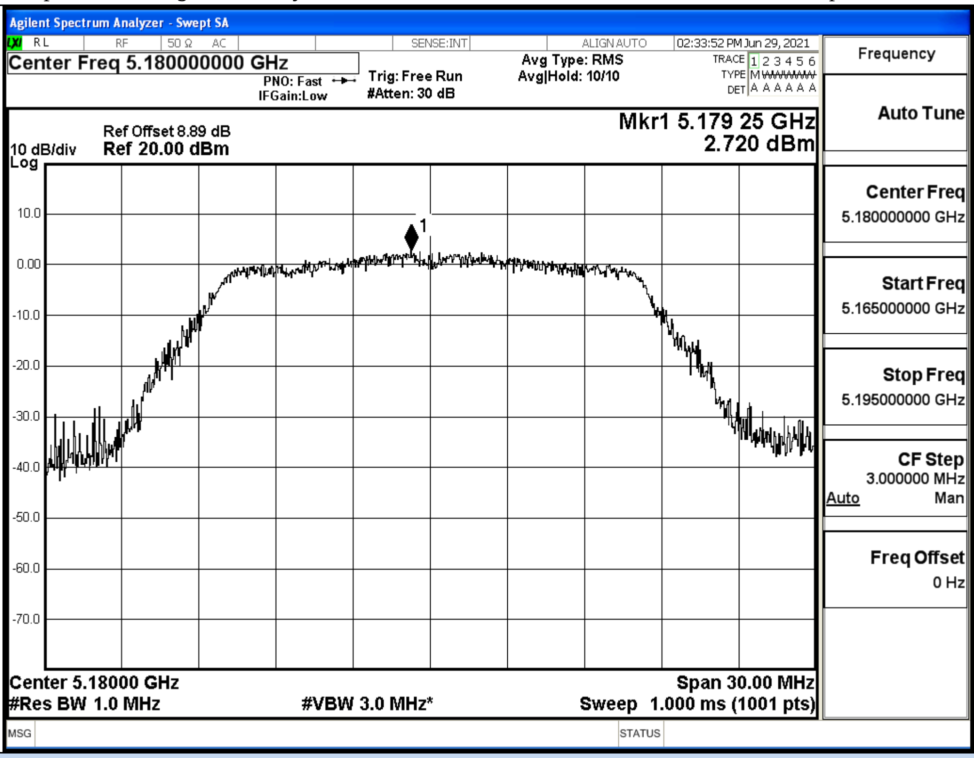
Power Spectral Density



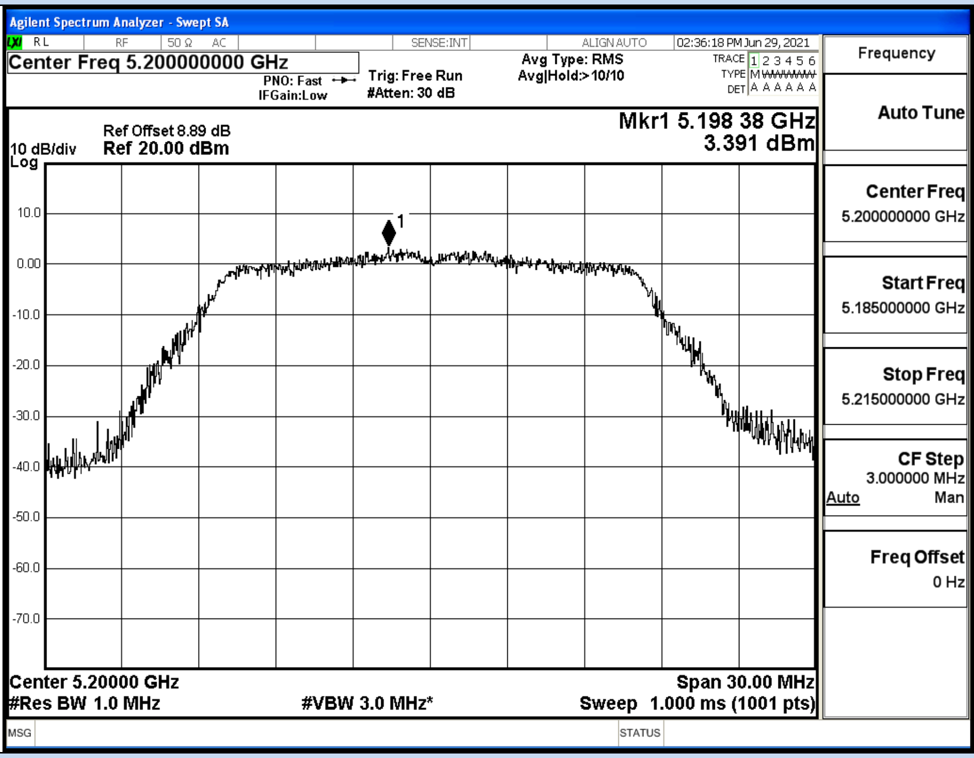
IEEE 802.11n40 / Channel 38 / 5190MHz



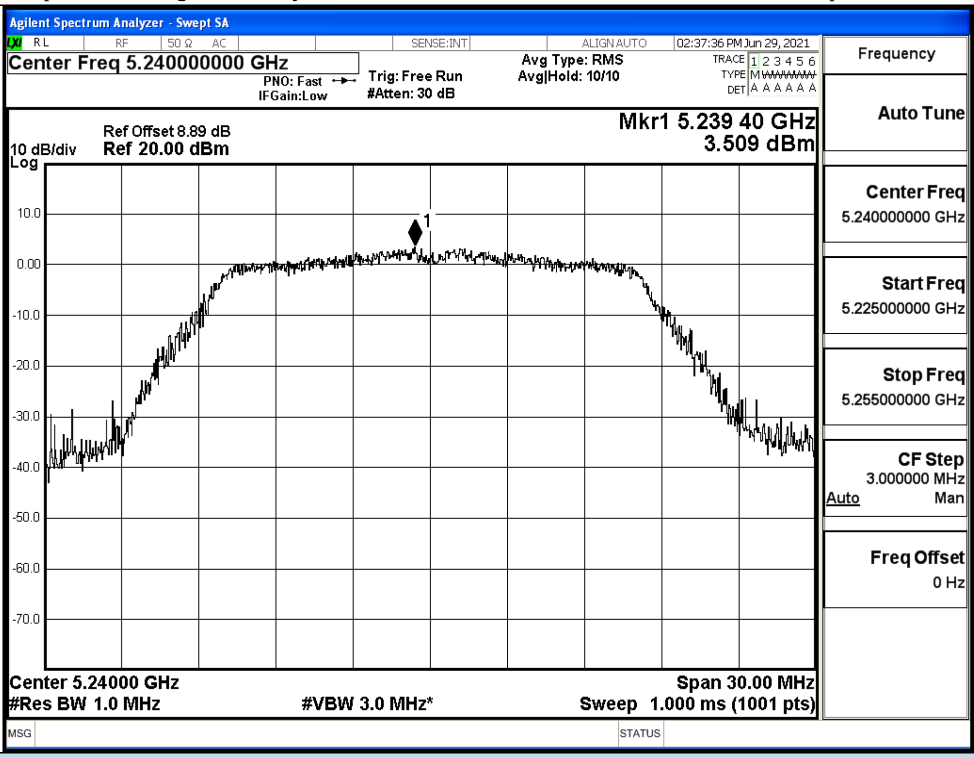
IEEE 802.11n40 / Channel 46 / 5230MHz



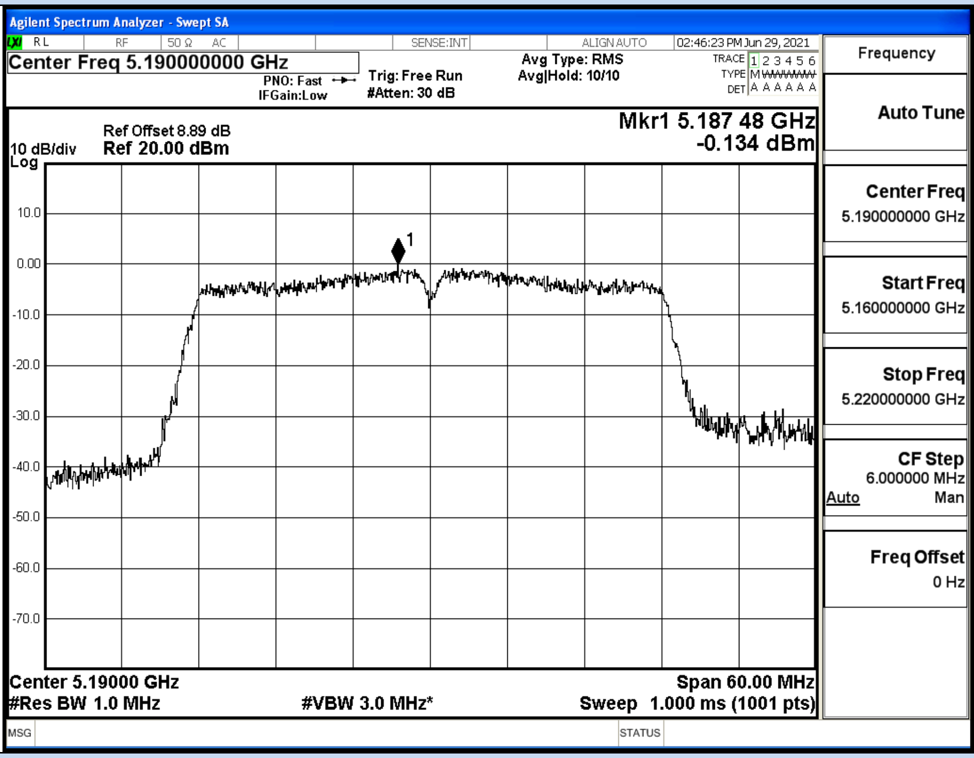
IEEE 802.11ac20 / Channel 36 / 5180MHz



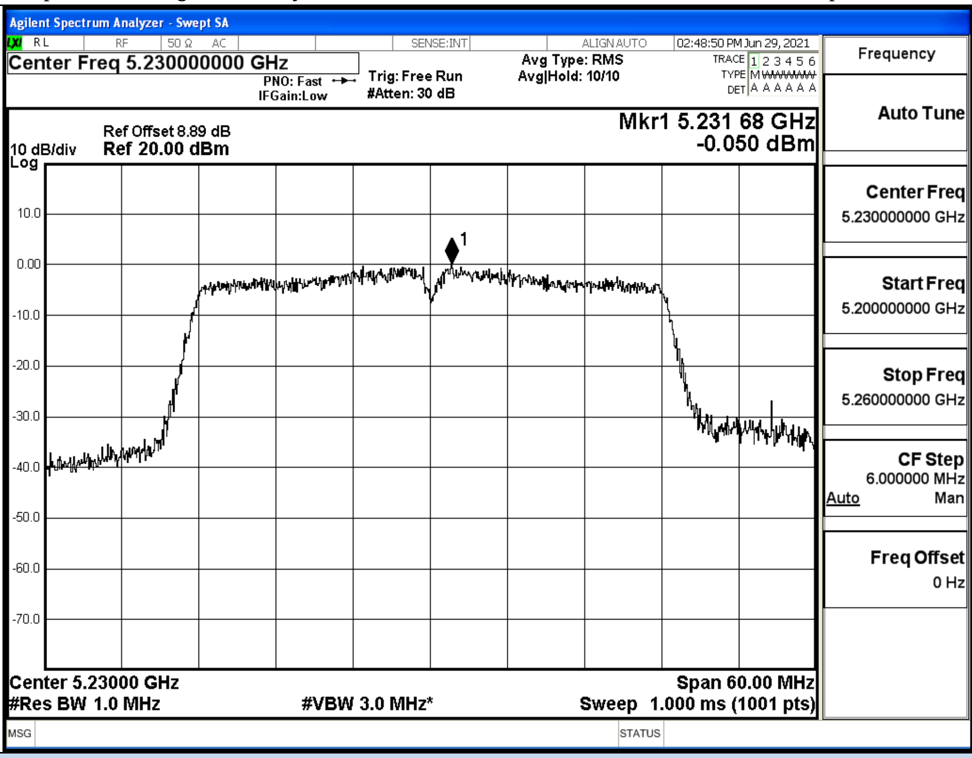
IEEE 802.11ac20 / Channel 40 / 5200MHz



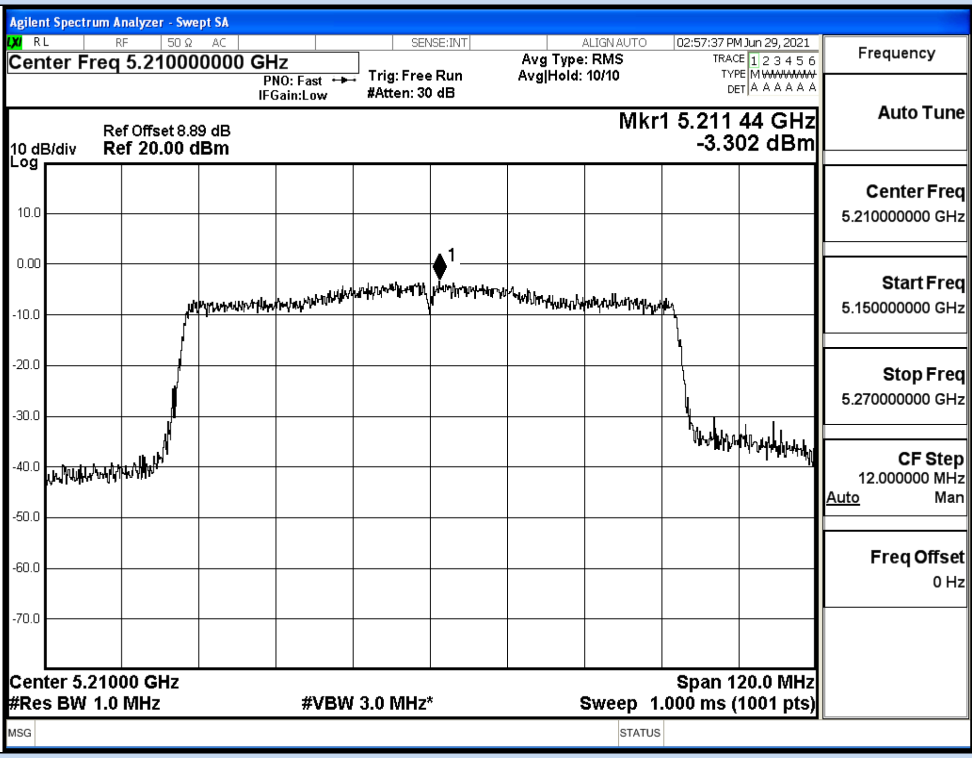
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

MIMO

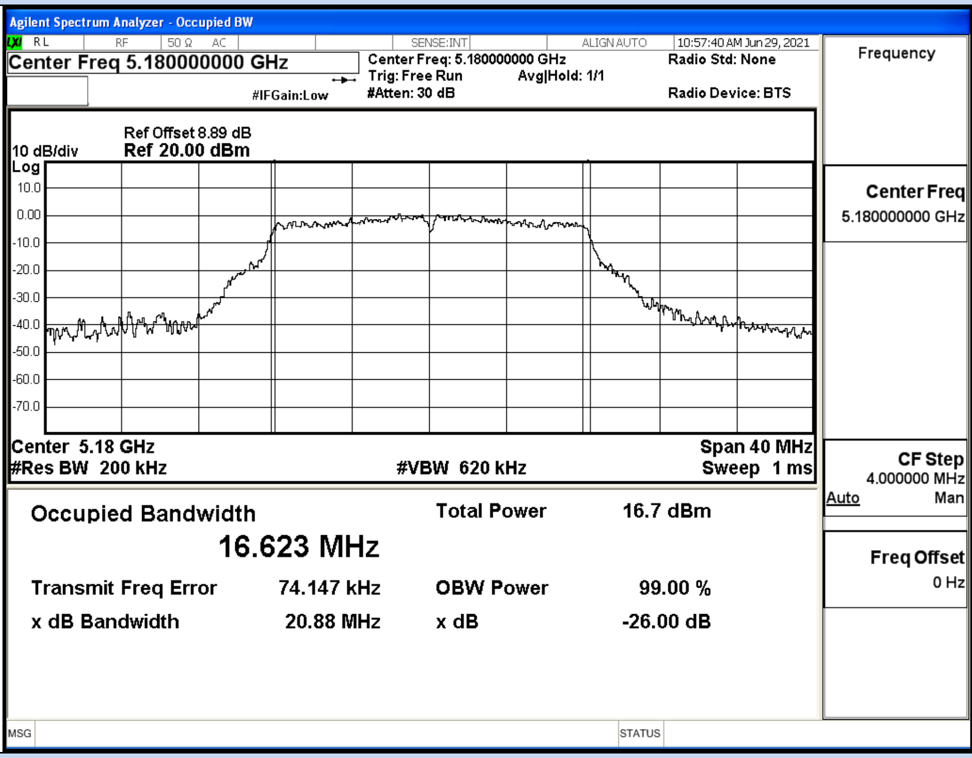
Test Mode	Channel	Frequency (MHz)	ANT 0 Power Density (dBm/MHz)	ANT 1 Power Density (dBm/MHz)	MIMO Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11N20	36	5180	2.10	2.27	5.20	11	Pass
	40	5200	2.26	2.45	5.37		Pass
	48	5240	3.07	3.46	6.28		Pass
11N40	38	5190	0.02	0.10	3.07	11	Pass
	46	5230	1.36	0.07	3.77		Pass
11AC20	36	5180	2.11	2.86	5.51	11	Pass
	40	5200	2.41	3.53	6.02		Pass
	48	5240	2.63	3.65	6.18		Pass
11AC40	38	5190	-0.05	0.15	3.06	11	Pass
	46	5230	0.42	0.23	3.34		Pass
11AC80	42	5210	-2.36	-2.74	0.46	11	Pass

D.4 Emission Bandwidth

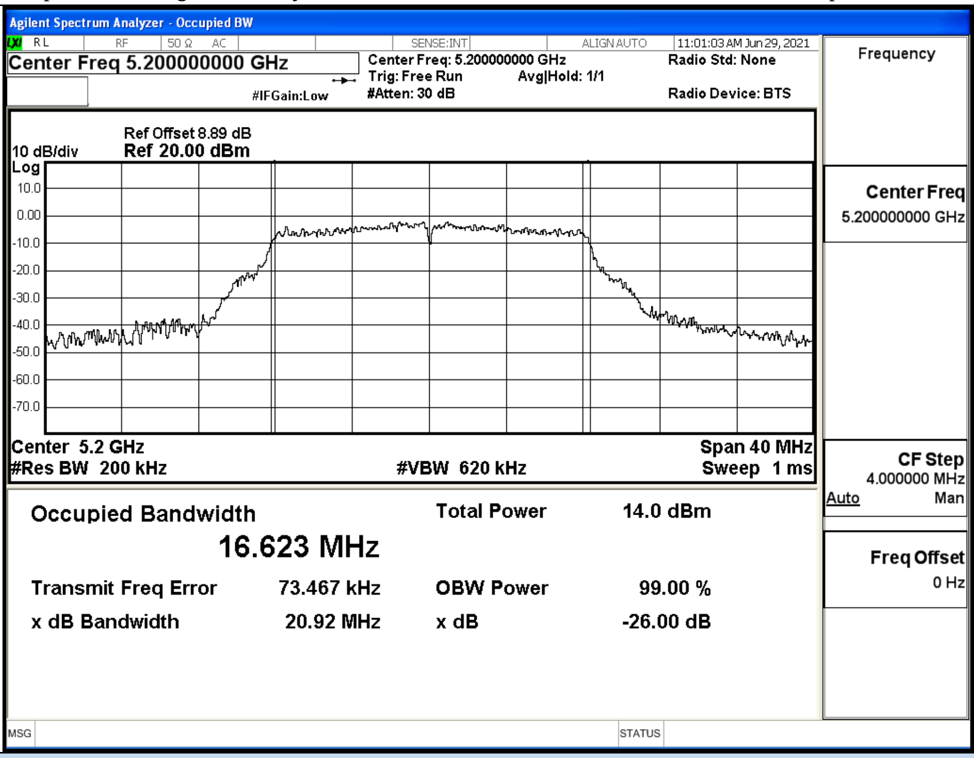
ANT0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.88	No Limit	Pass
	40	5200	20.92		Pass
	48	5240	20.84		Pass
11N20 SISO	36	5180	21.37	No Limit	Pass
	40	5200	21.54		Pass
	48	5240	21.36		Pass
11N40 SISO	38	5190	40.08	No Limit	Pass
	46	5230	39.59		Pass
11AC20 SISO	36	5180	21.32	No Limi	Pass
	40	5200	21.74		Pass
	48	5240	21.44		Pass
11AC40 SISO	38	5190	39.49	No Limi	Pass
	46	5230	39.98		Pass
11AC80 SISO	42	5210	80.53	No Limi	Pass

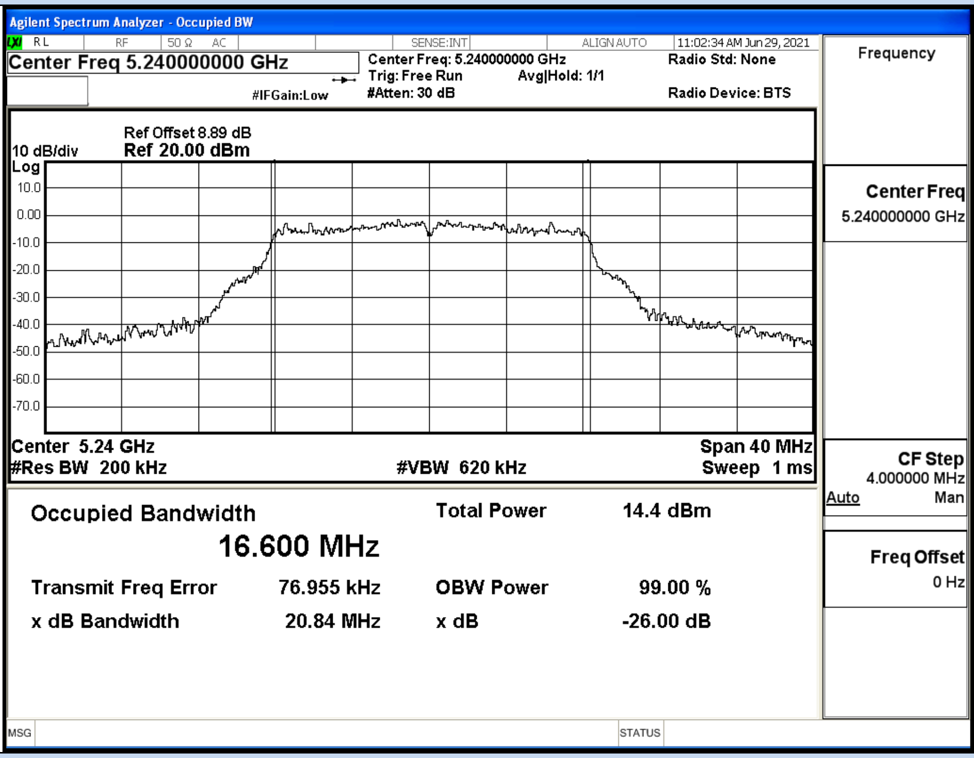
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

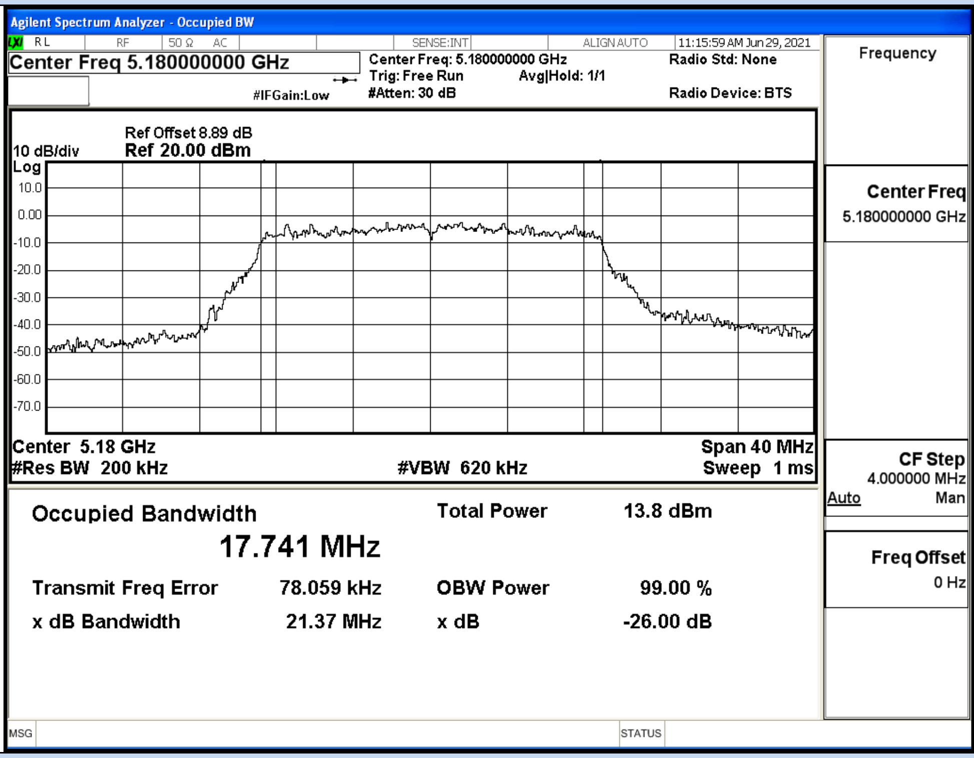


IEEE 802.11a / Channel 40 / 5200MHz

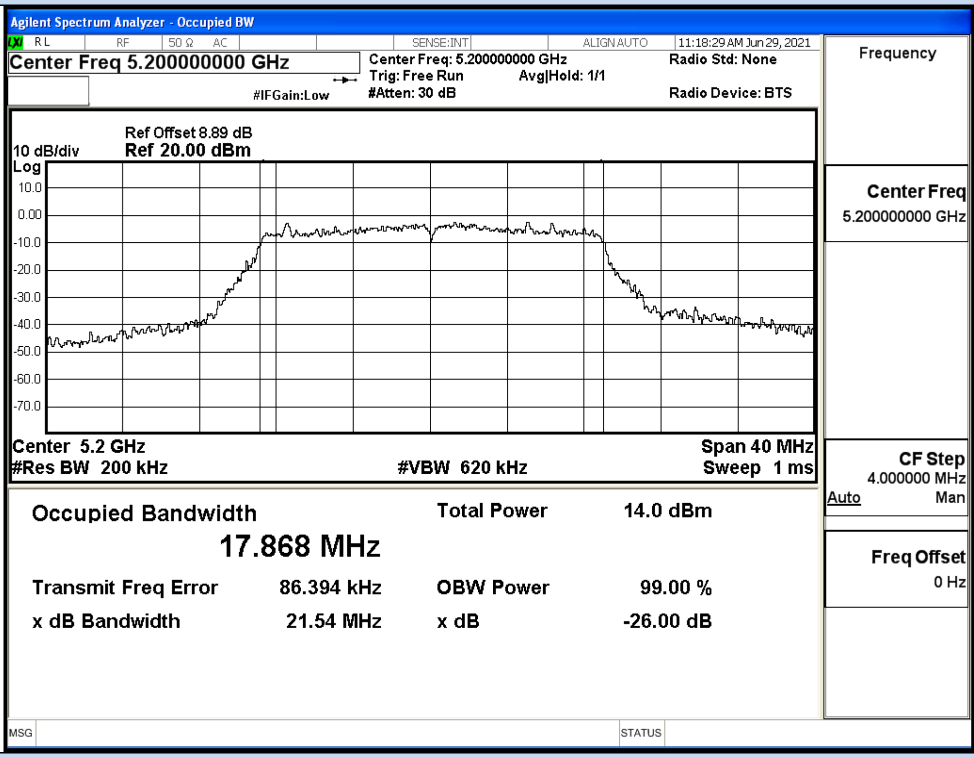


IEEE 802.11a / Channel 48 / 5240MHz

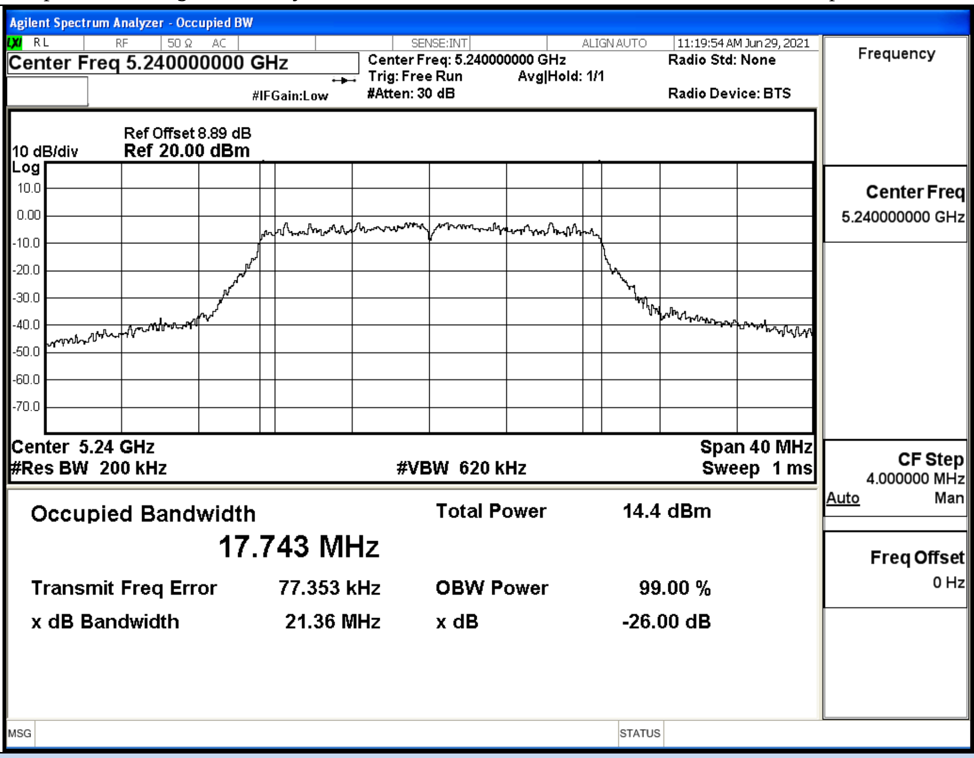
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

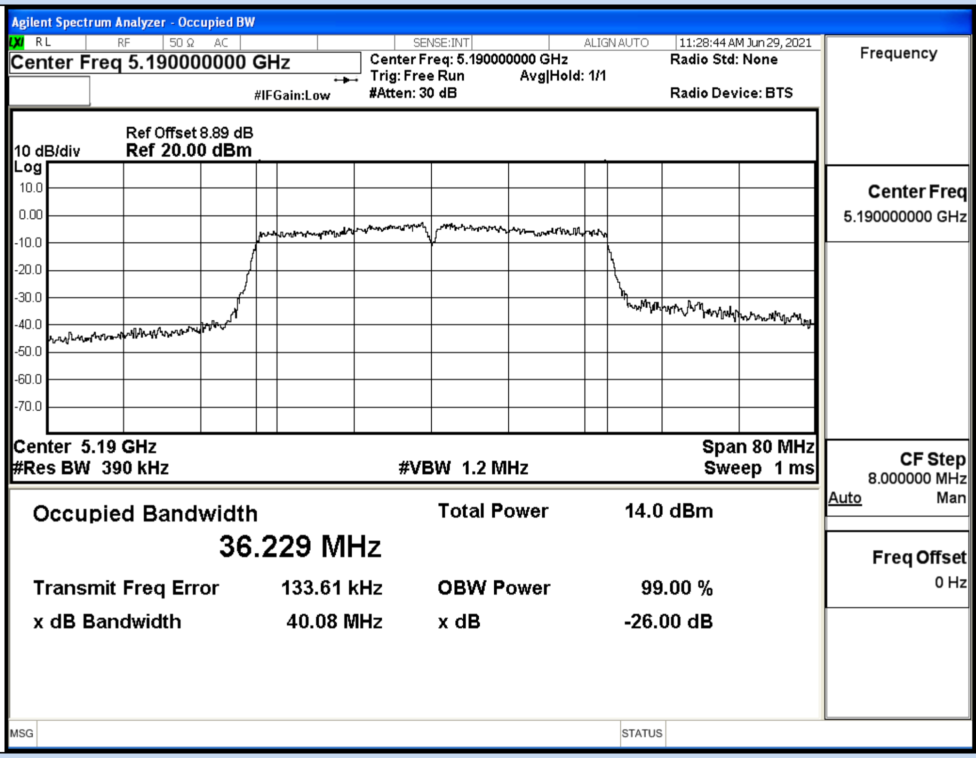


IEEE 802.11n20 / Channel 40 / 5200MHz

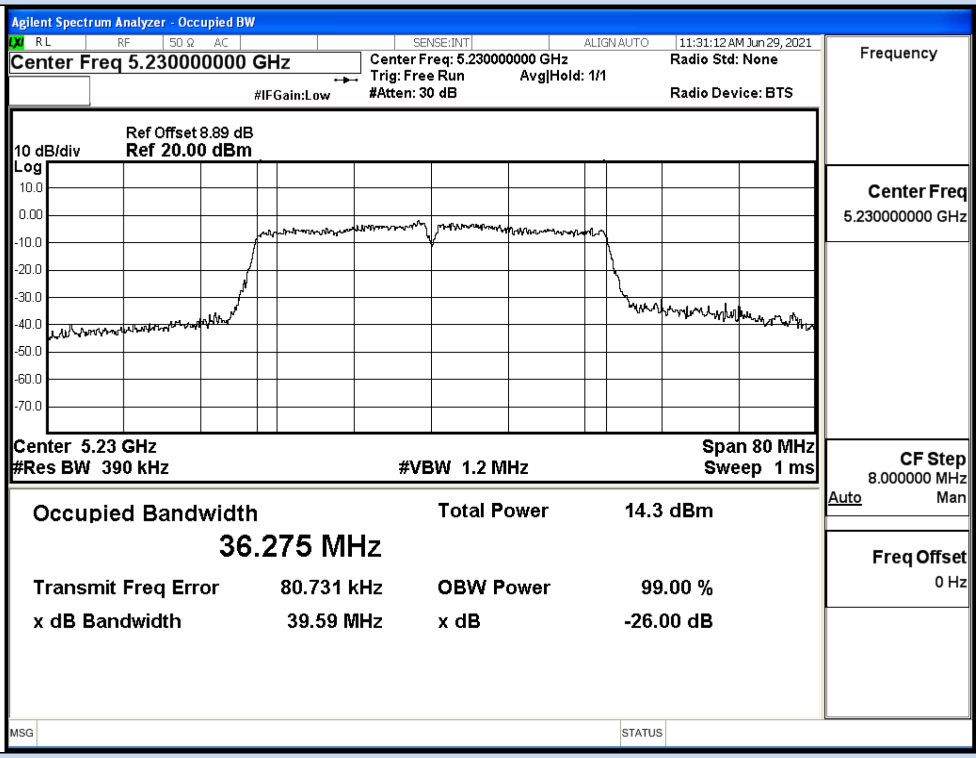


IEEE 802.11n20 / Channel 48 / 5240MHz

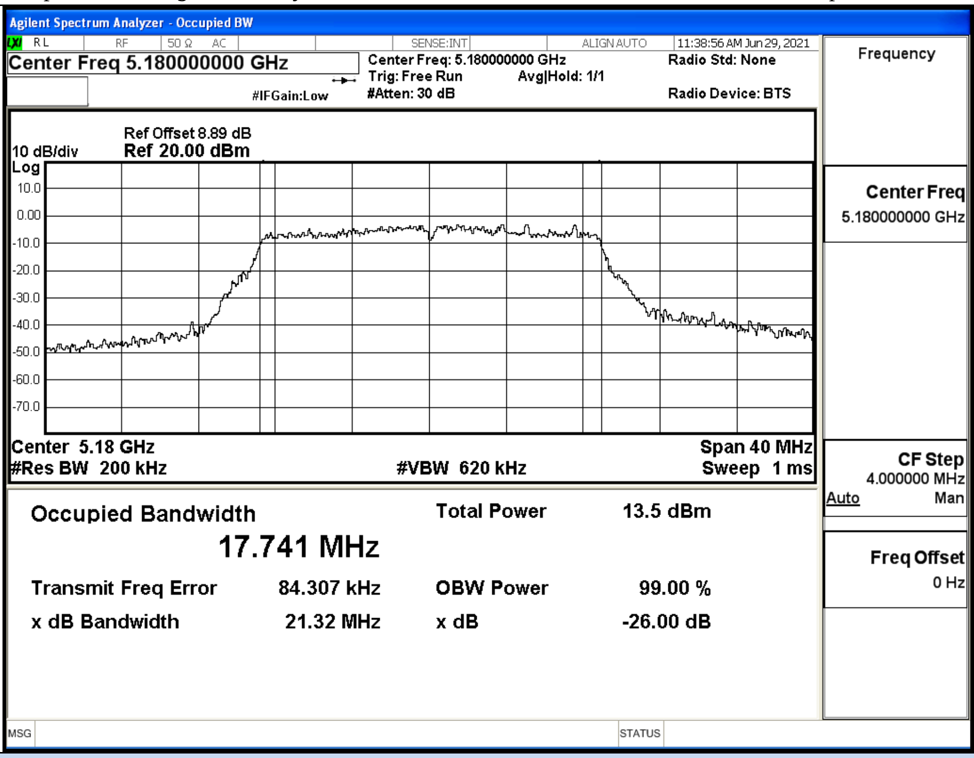
26dB Bandwidth



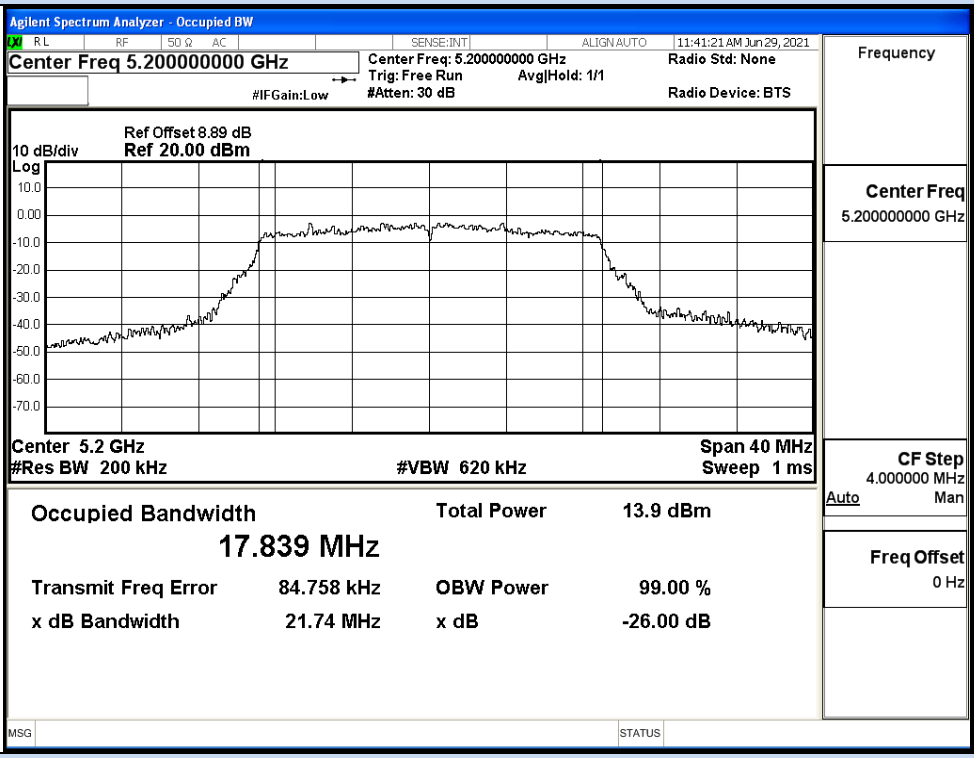
IEEE 802.11n40 / Channel 38 / 5190MHz



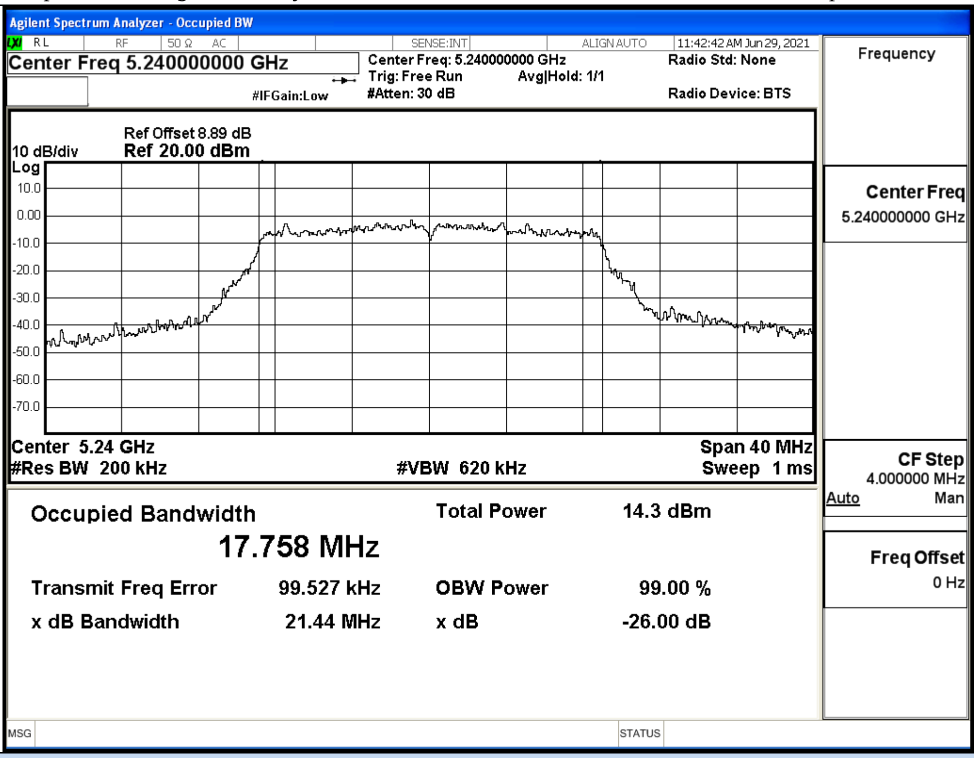
IEEE 802.11n40 / Channel 46 / 5230MHz



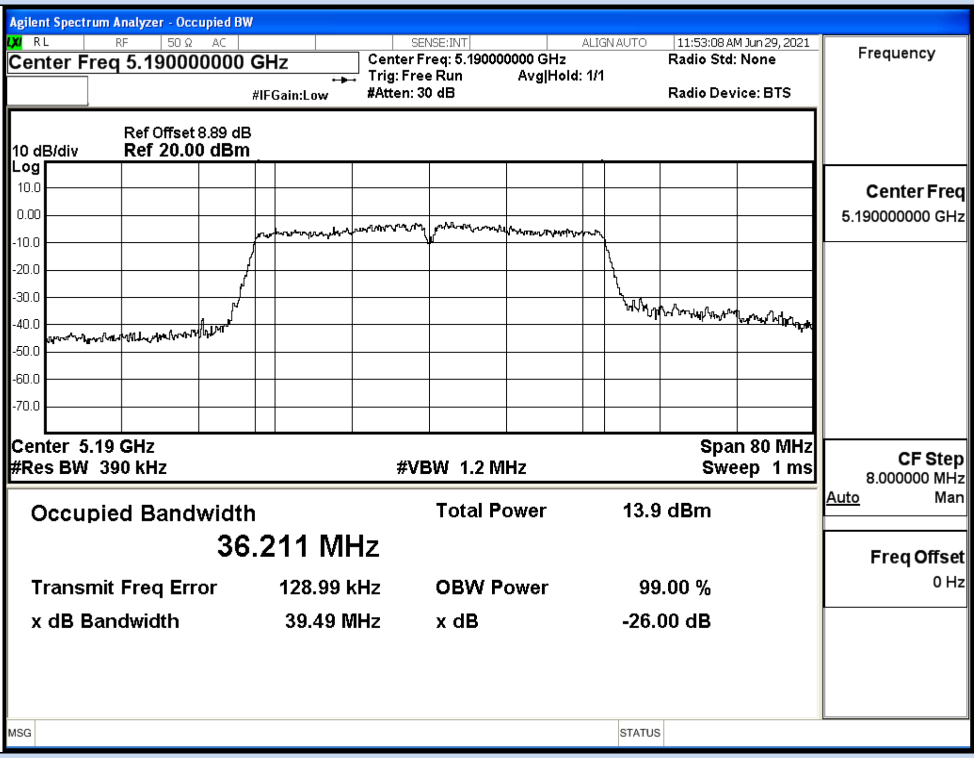
IEEE 802.11ac20 / Channel 36 / 5180MHz



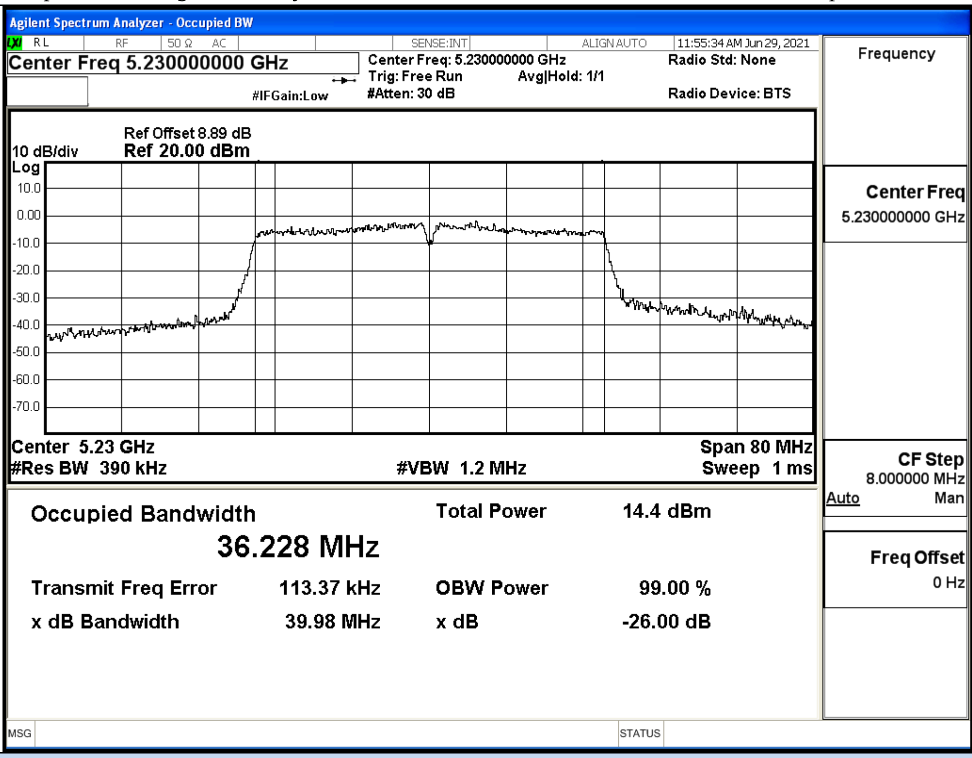
IEEE 802.11ac20 / Channel 40 / 5200MHz



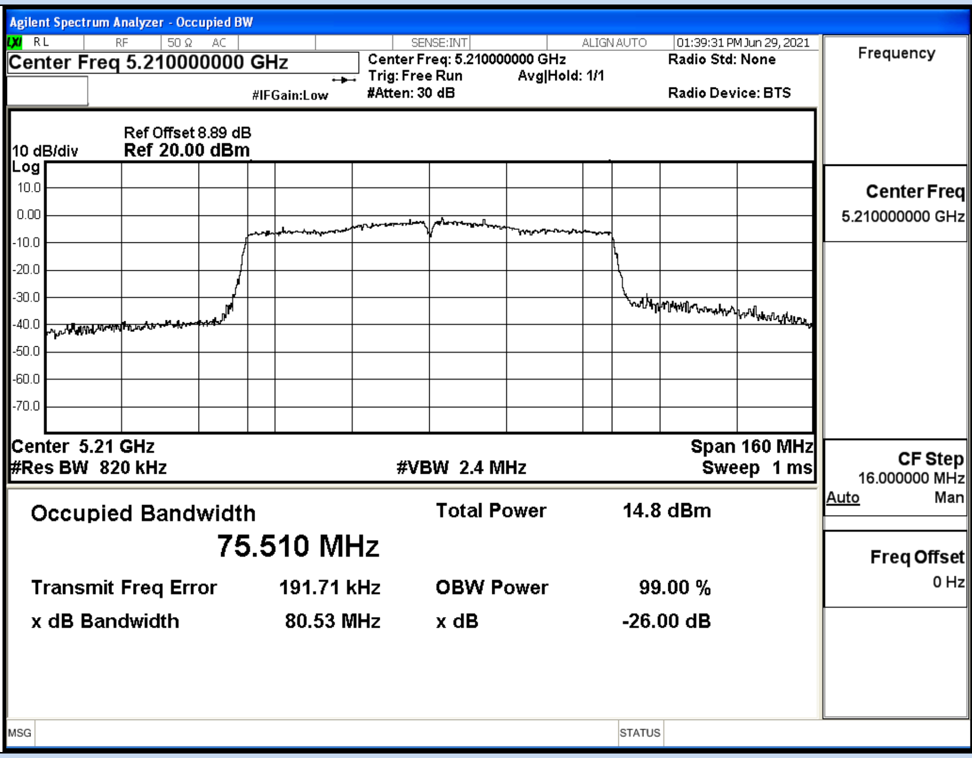
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

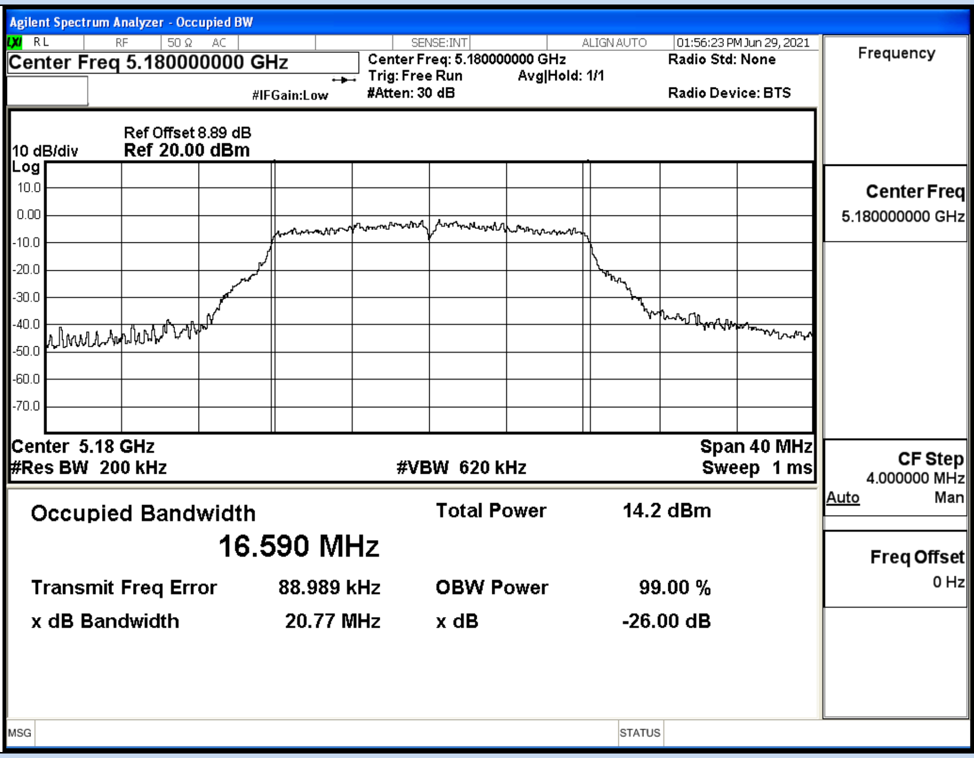


IEEE 802.11ac80 / Channel 42 / 5210MHz

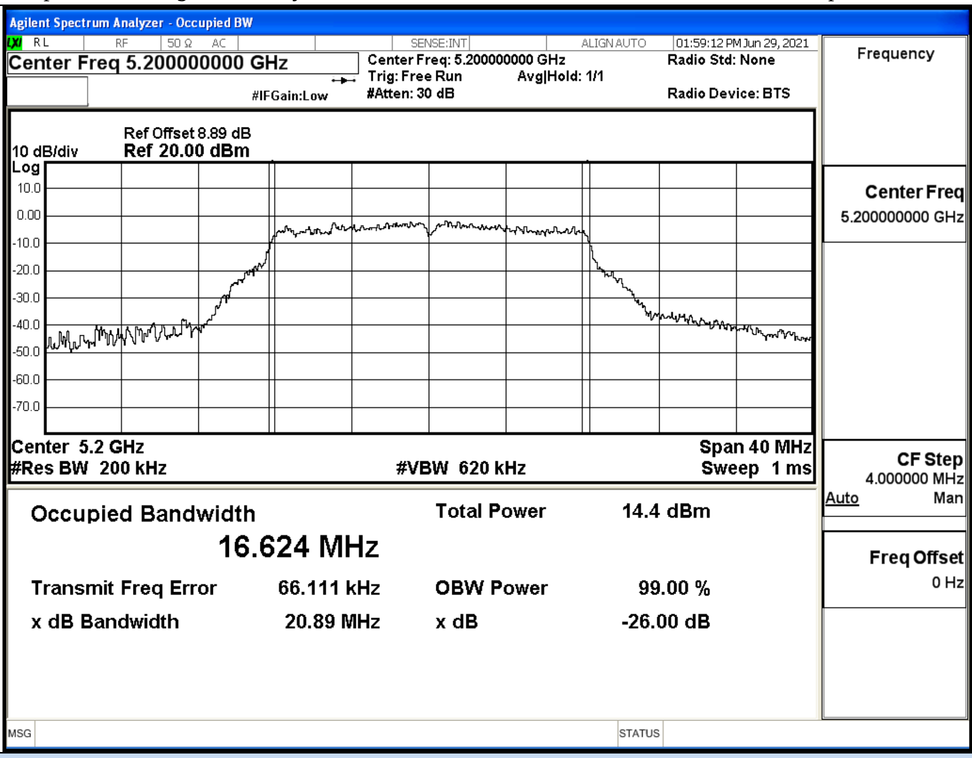
ANT1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.77	No Limit	Pass
	40	5200	20.89		Pass
	48	5240	20.97		Pass
11N20 SISO	36	5180	21.58	No Limit	Pass
	40	5200	21.68		Pass
	48	5240	21.27		Pass
11N40 SISO	38	5190	39.85	No Limit	Pass
	46	5230	39.67		Pass
11AC20 SISO	36	5180	21.09	No Limi	Pass
	40	5200	21.05		Pass
	48	5240	21.03		Pass
11AC40 SISO	38	5190	39.69	No Limi	Pass
	46	5230	39.72		Pass
11AC80 SISO	42	5210	80.55	No Limi	Pass

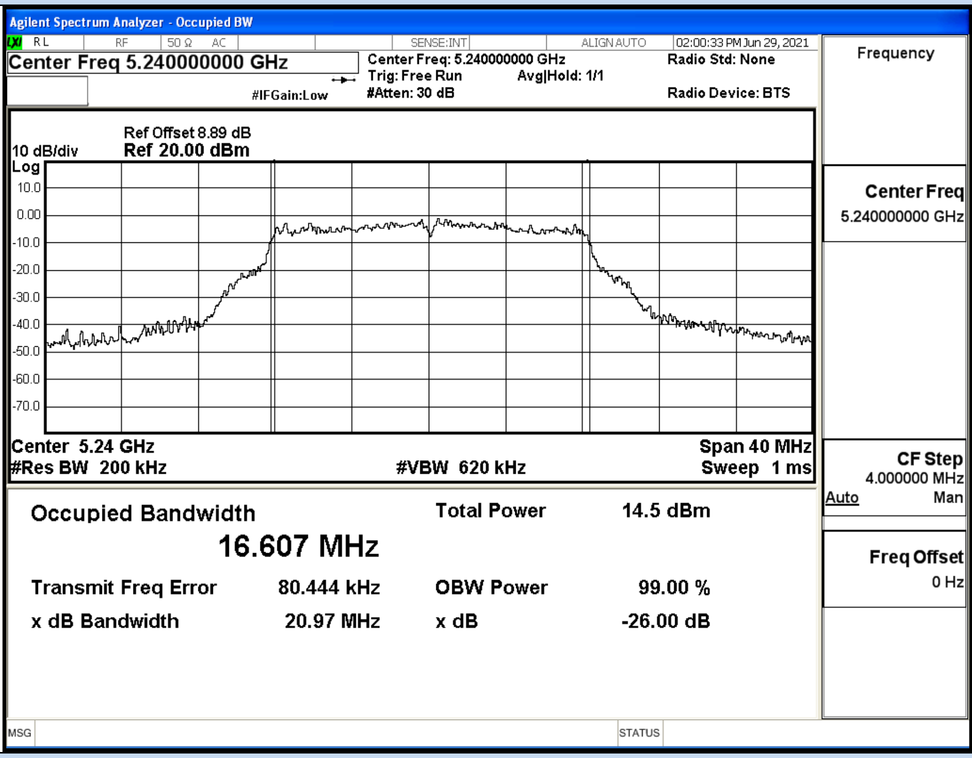
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

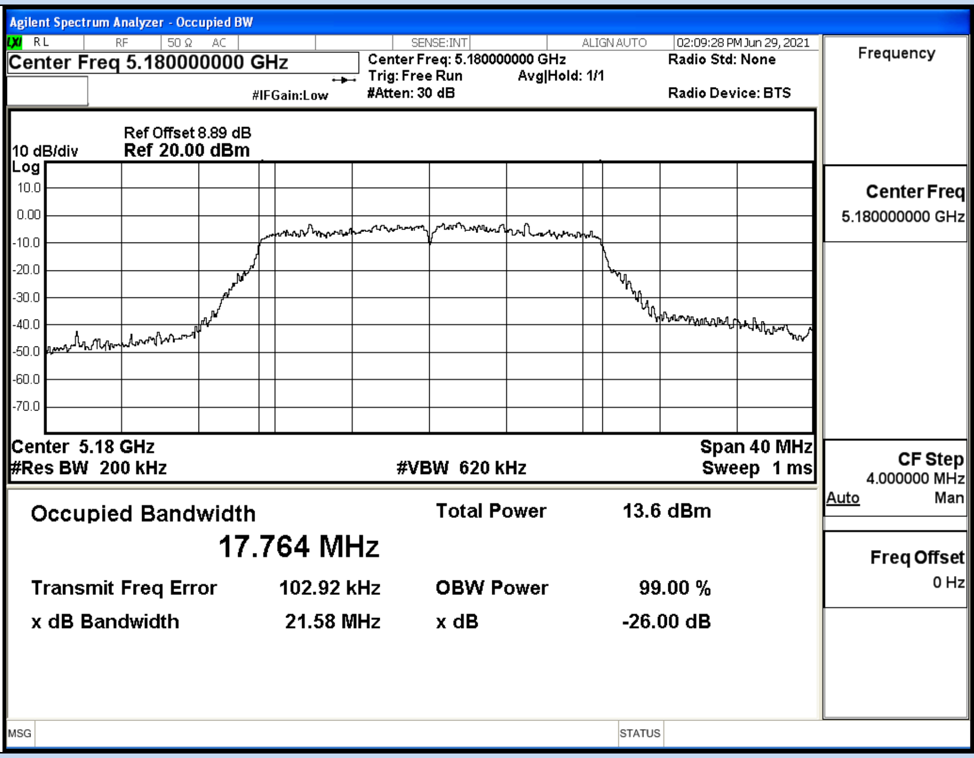


IEEE 802.11a / Channel 40 / 5200MHz

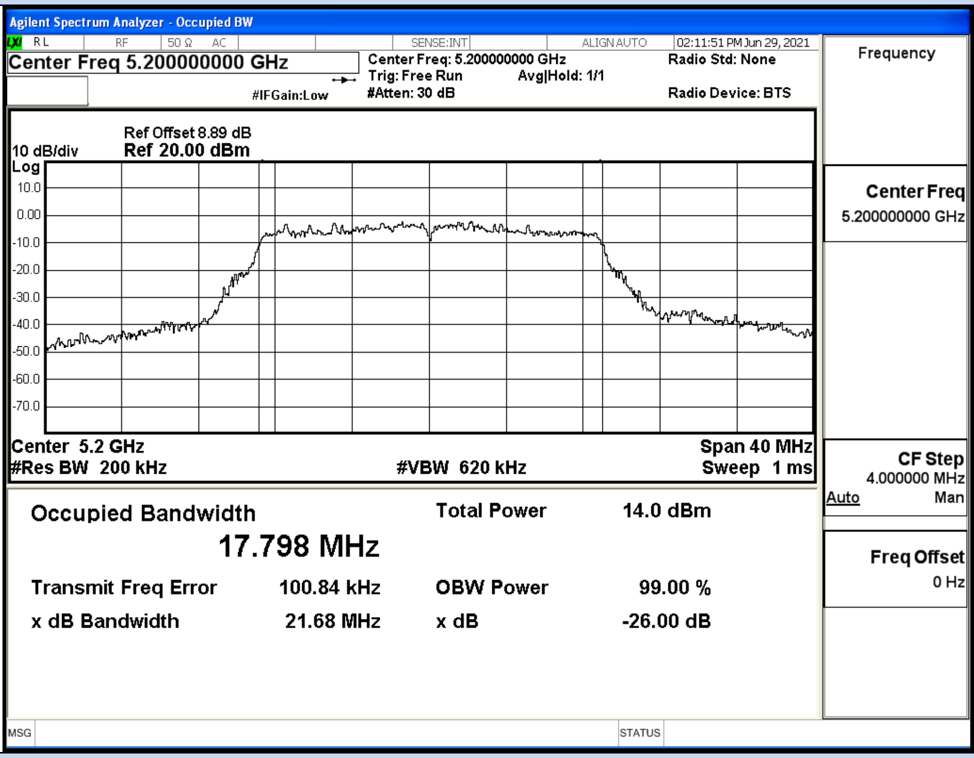


IEEE 802.11a / Channel 48 / 5240MHz

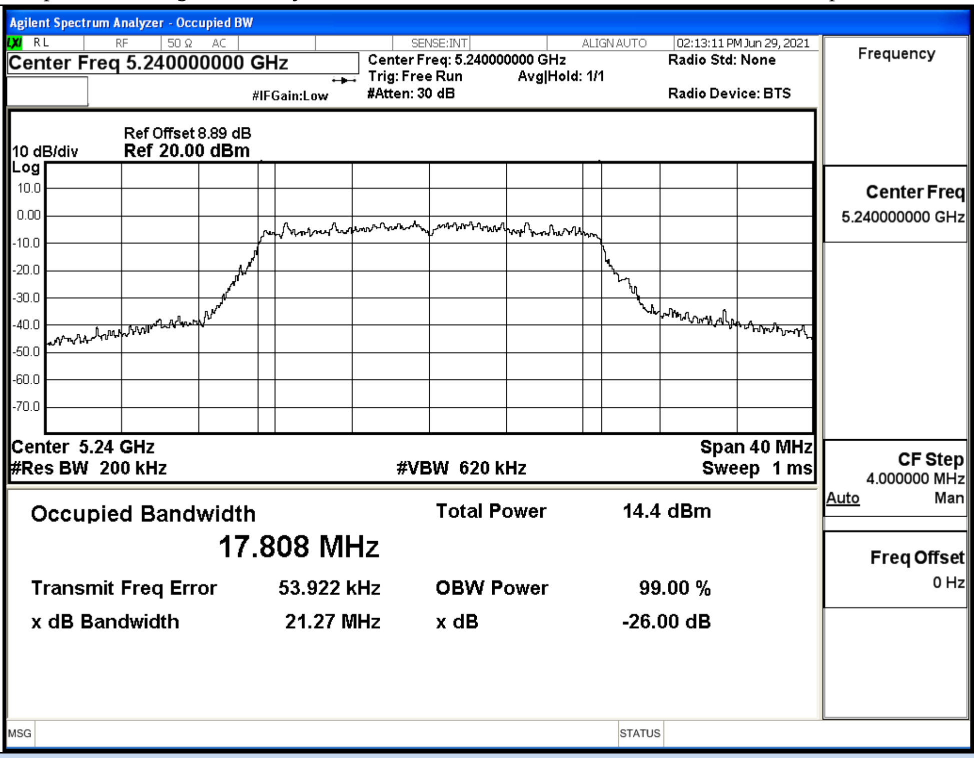
26dB Bandwidth



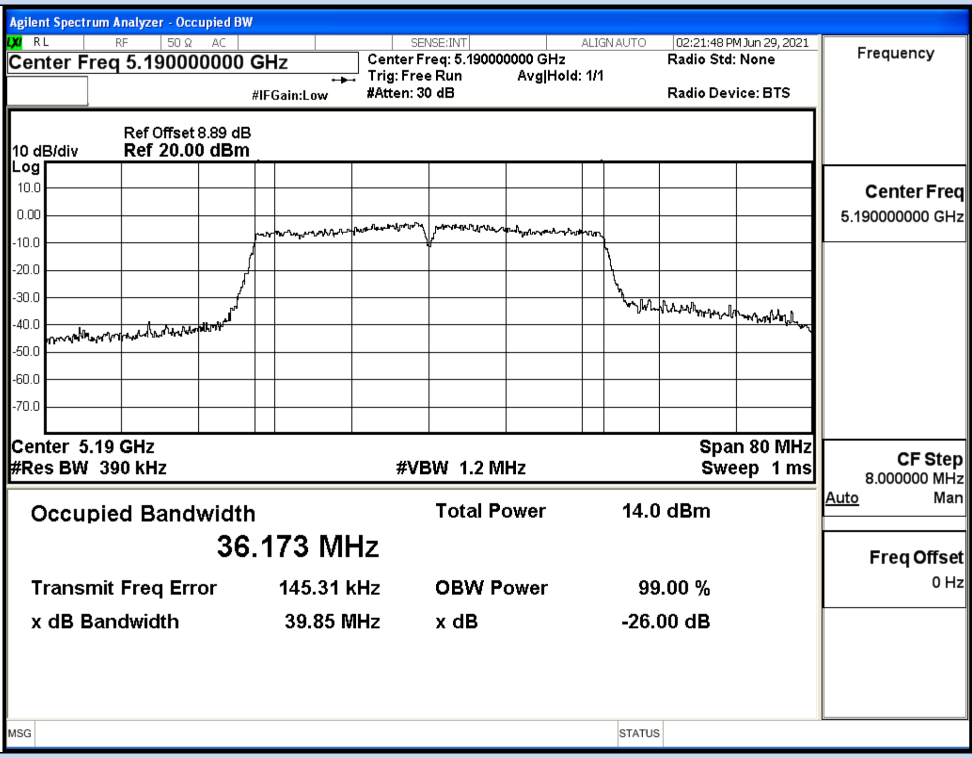
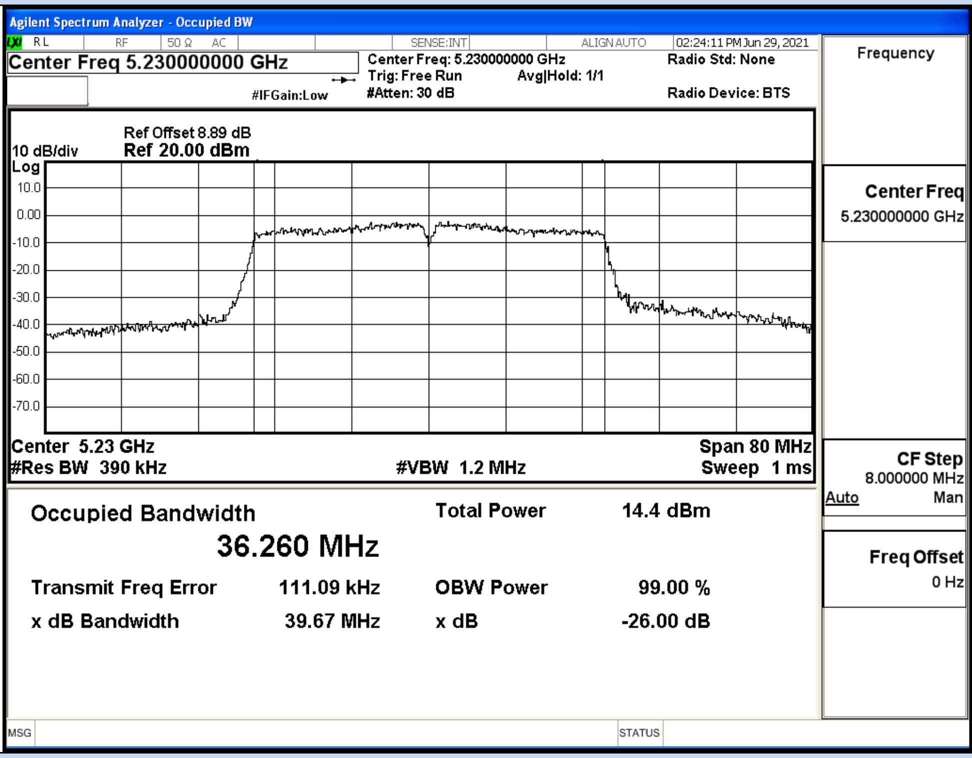
IEEE 802.11n20 / Channel 36 / 5180MHz

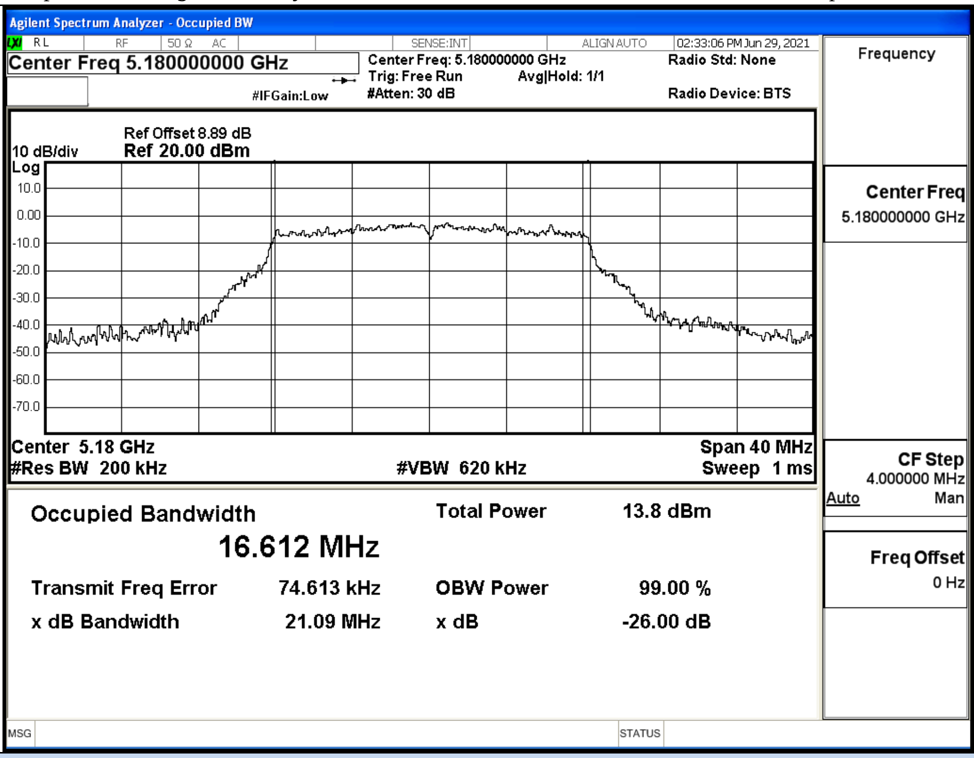


IEEE 802.11n20 / Channel 40 / 5200MHz

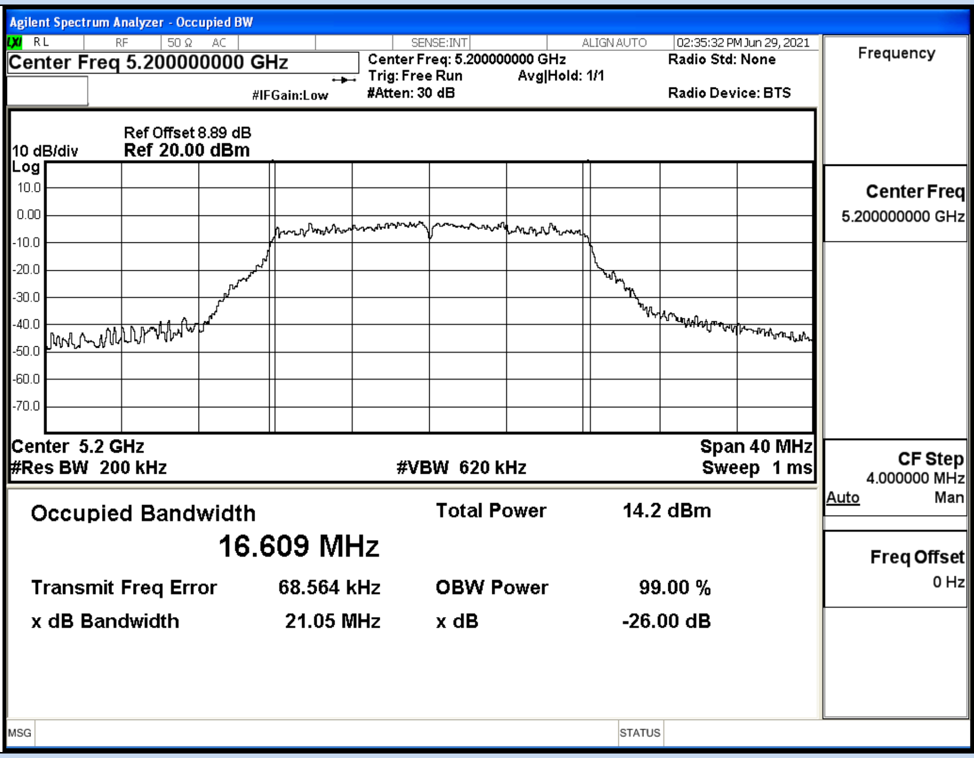


IEEE 802.11n20 / Channel 48 / 5240MHz

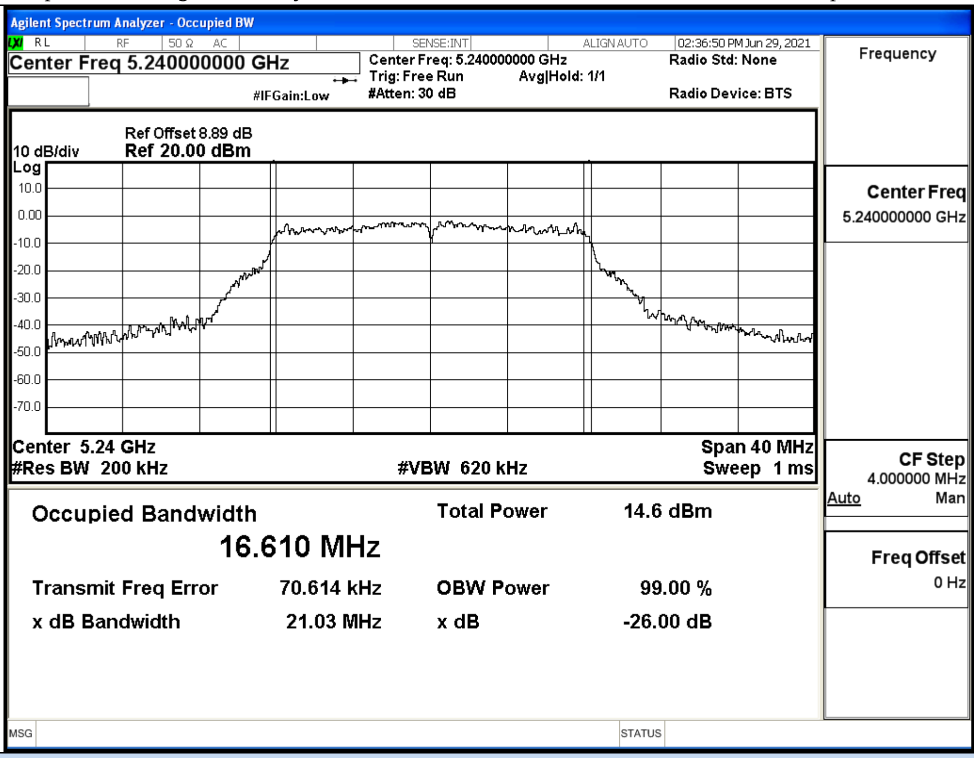
26dB Bandwidth

IEEE 802.11n40 / Channel 38 / 5190MHz

IEEE 802.11n40 / Channel 46 / 5230MHz



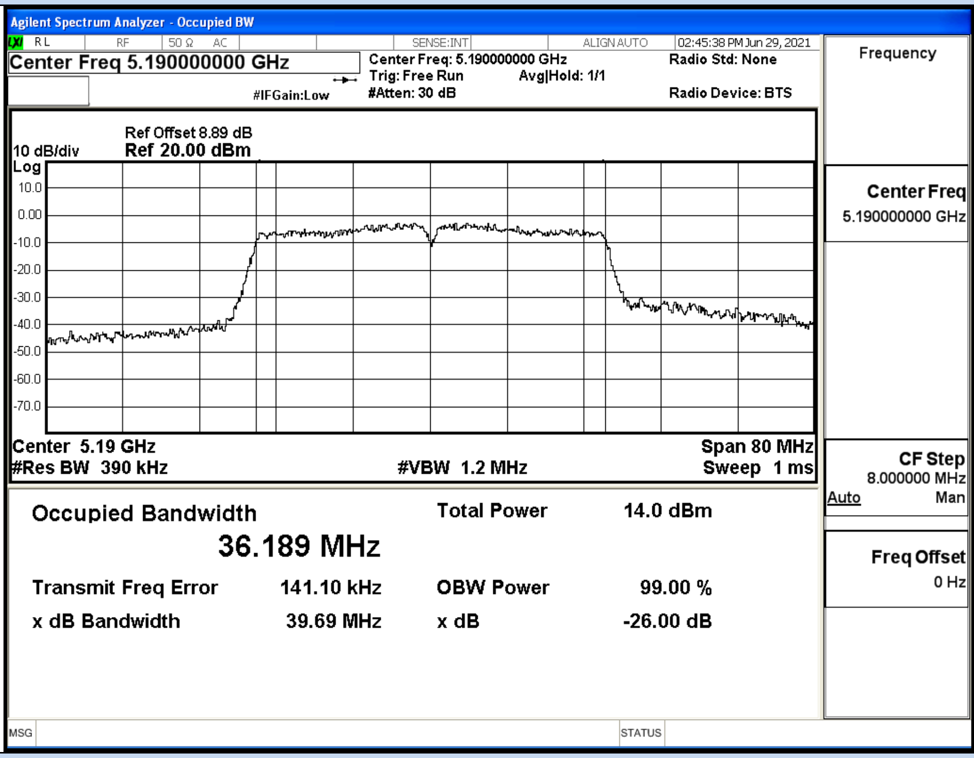
IEEE 802.11ac20 / Channel 36 / 5180MHz



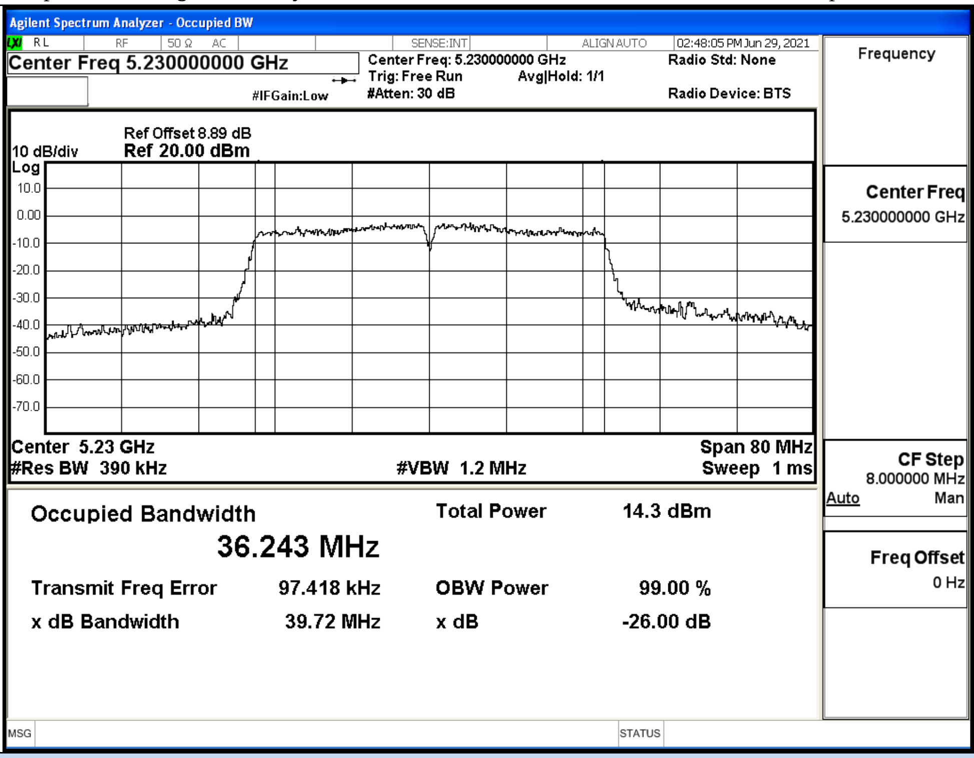
IEEE 802.11ac20 / Channel 40 / 5200MHz



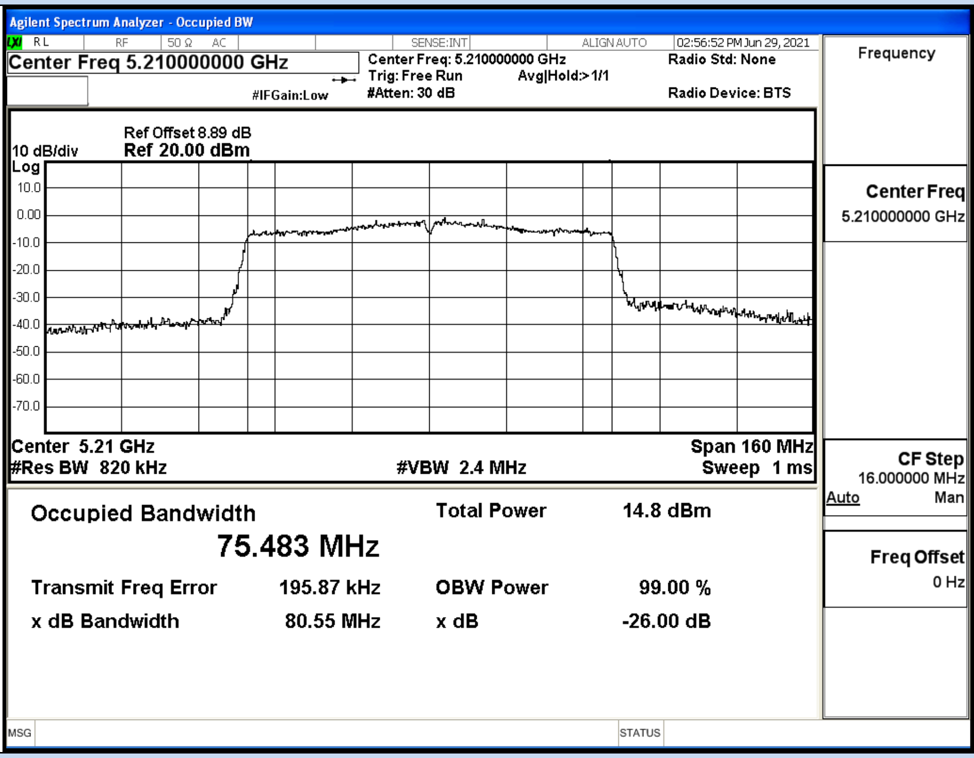
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



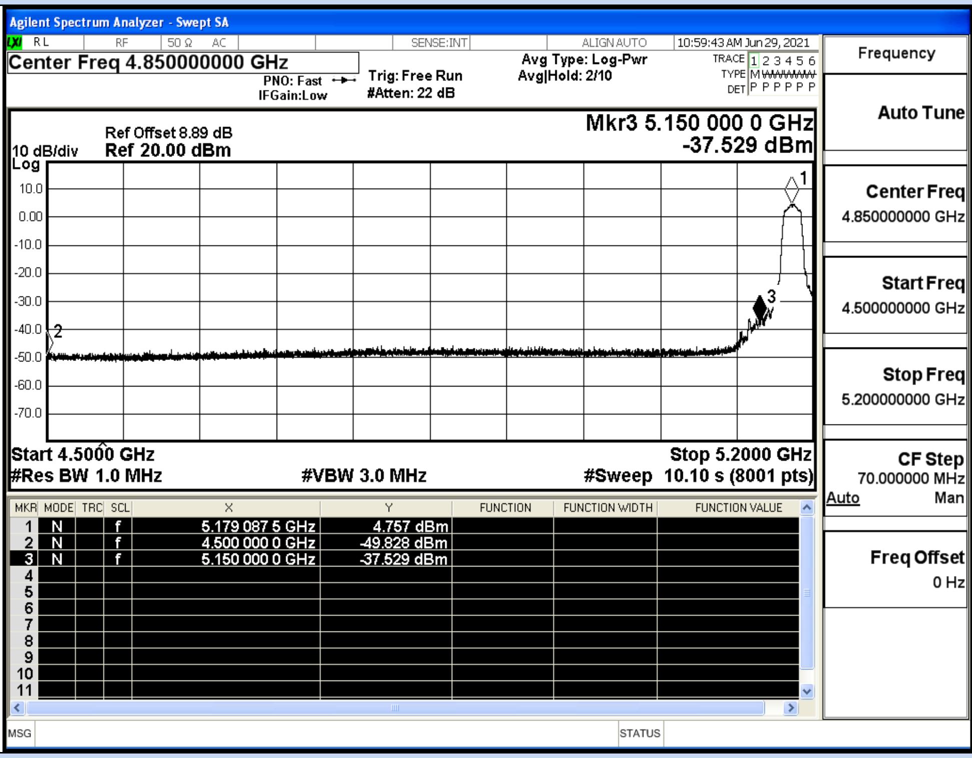
IEEE 802.11ac80 / Channel 42 / 5210MHz

D.5 Undesirable Emissions Measurement

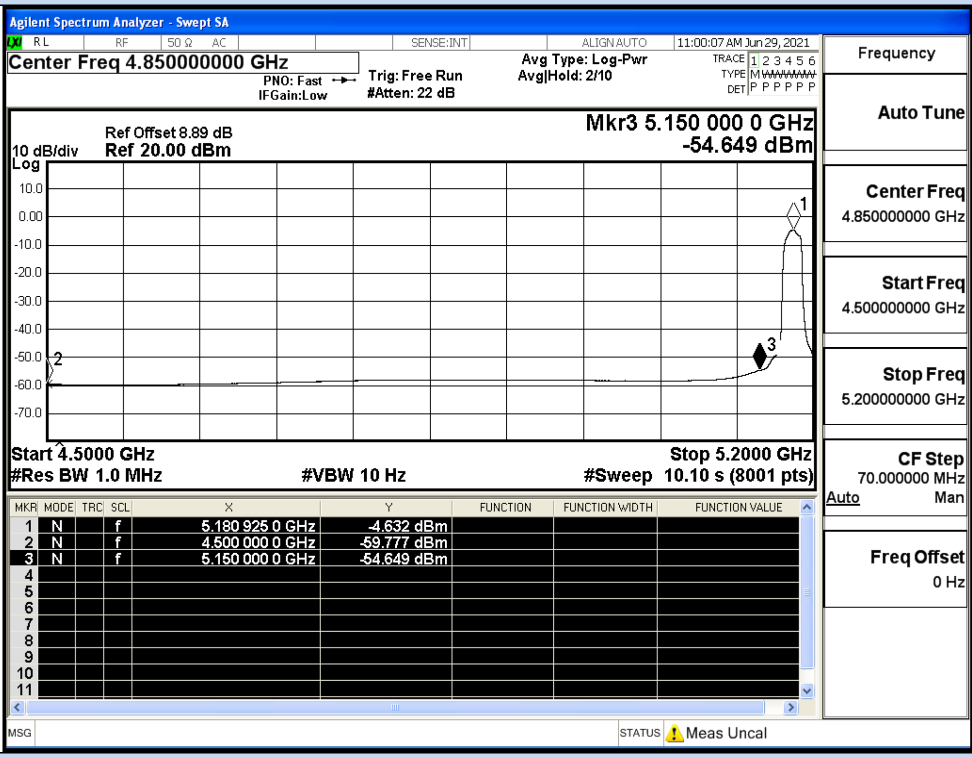
ANT0

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	-49.83	2.00	0	47.40	Peak	68.20	Pass
		4500.0	-59.78	2.00	0	37.45	Average	54.00	Pass
		5150.0	-37.53	2.00	0	59.70	Peak	68.20	Pass
		5150.0	-54.65	2.00	0	42.58	Average	54.00	Pass
	48	5350.0	-49.95	2.00	0	47.28	Peak	68.20	Pass
		5350.0	-59.44	2.00	0	37.79	Average	54.00	Pass
		5460.0	-48.52	2.00	0	48.71	Peak	68.20	Pass
		5460.0	-59.66	2.00	0	37.57	Average	54.00	Pass
11N20 SISO	36	4500.0	-49.92	2.00	0	47.31	Peak	68.20	Pass
		4500.0	-59.77	2.00	0	37.46	Average	54.00	Pass
		5150.0	-41.31	2.00	0	55.92	Peak	68.20	Pass
		5150.0	-54.81	2.00	0	42.42	Average	54.00	Pass
	48	5350.0	-48.90	2.00	0	48.33	Peak	68.20	Pass
		5350.0	-59.42	2.00	0	37.81	Average	54.00	Pass
		5460.0	-49.53	2.00	0	47.70	Peak	68.20	Pass
		5460.0	-59.66	2.00	0	37.57	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.89	2.00	0	47.34	Peak	68.20	Pass
		4500.0	-59.77	2.00	0	37.46	Average	54.00	Pass
		5150.0	-41.31	2.00	0	55.92	Peak	68.20	Pass
		5150.0	-52.67	2.00	0	44.56	Average	54.00	Pass
	46	5350.0	-48.50	2.00	0	48.73	Peak	68.20	Pass
		5350.0	-58.59	2.00	0	38.64	Average	54.00	Pass
		5460.0	-49.18	2.00	0	48.05	Peak	68.20	Pass
		5460.0	-59.32	2.00	0	37.91	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.20	2.00	0	47.03	Peak	68.20	Pass
		4500.0	-59.80	2.00	0	37.43	Average	54.00	Pass
		5150.0	-42.08	2.00	0	55.15	Peak	68.20	Pass
		5150.0	-54.95	2.00	0	42.28	Average	54.00	Pass
	48	4500.0	-50.20	2.00	0	47.03	Peak	68.20	Pass
		4500.0	-59.80	2.00	0	37.43	Average	54.00	Pass
		5150.0	-42.08	2.00	0	55.15	Peak	68.20	Pass
		5150.0	-54.95	2.00	0	42.28	Average	54.00	Pass
11AC40 SISO	38	4500.0	-50.62	2.00	0	46.61	Peak	68.20	Pass
		4500.0	-59.80	2.00	0	37.43	Average	54.00	Pass
		5150.0	-42.02	2.00	0	55.21	Peak	68.20	Pass
		5150.0	-53.00	2.00	0	44.23	Average	54.00	Pass
	46	5350.0	-48.43	2.00	0	48.80	Peak	68.20	Pass
		5350.0	-58.62	2.00	0	38.61	Average	54.00	Pass
		5460.0	-48.69	2.00	0	48.54	Peak	68.20	Pass
		5460.0	-59.27	2.00	0	37.96	Average	54.00	Pass
11AC80 SISO	42	4500.0	-46.67	2.00	0	50.56	Peak	68.20	Pass
		4500.0	-57.06	2.00	0	40.17	Average	54.00	Pass
		5150.0	-48.40	2.00	0	48.83	Peak	68.20	Pass
		5150.0	-58.64	2.00	0	38.59	Average	54.00	Pass
		5350.0	-46.67	2.00	0	50.56	Peak	68.20	Pass
		5350.0	-57.06	2.00	0	40.17	Average	54.00	Pass
		5460.0	-48.40	2.00	0	48.83	Peak	68.20	Pass
		5460.0	-58.64	2.00	0	38.59	Average	54.00	Pass

Undesirable Emissions Measurement

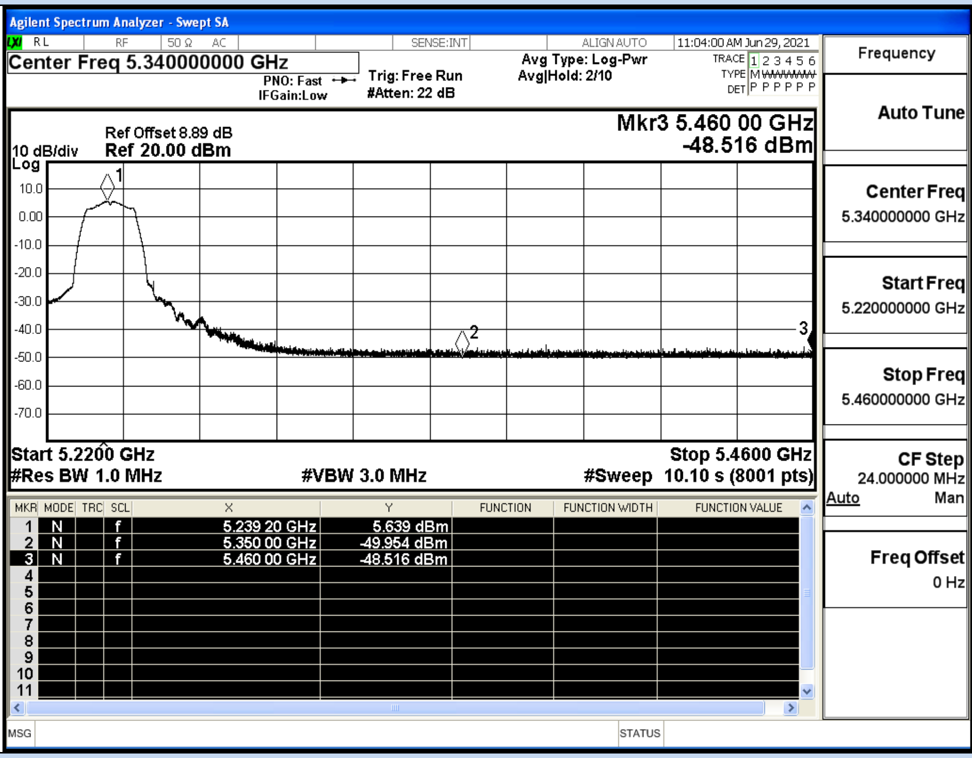


IEEE 802.11a / Channel 36 / 5180MHz / Peak

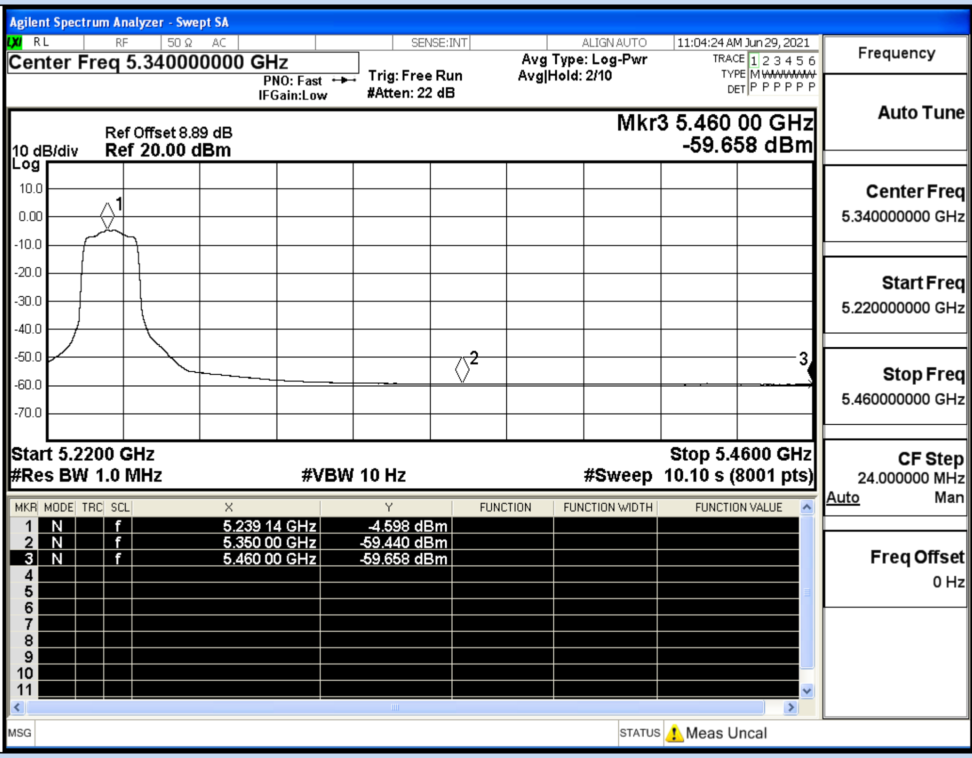


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

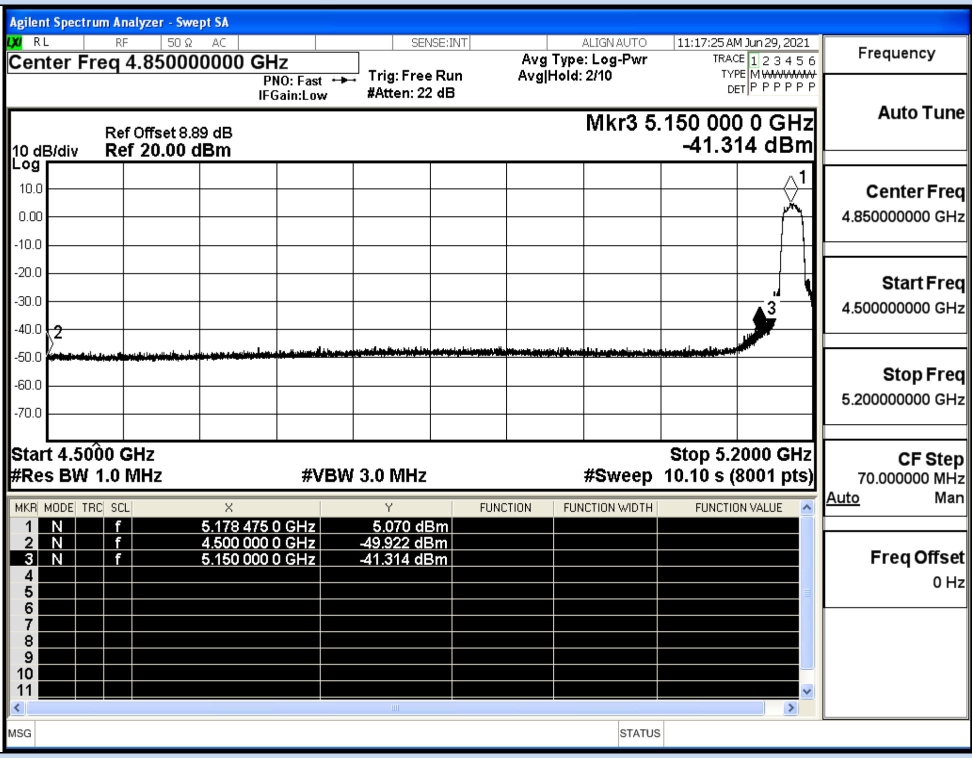


IEEE 802.11a / Channel 48 / 5240MHz / Peak

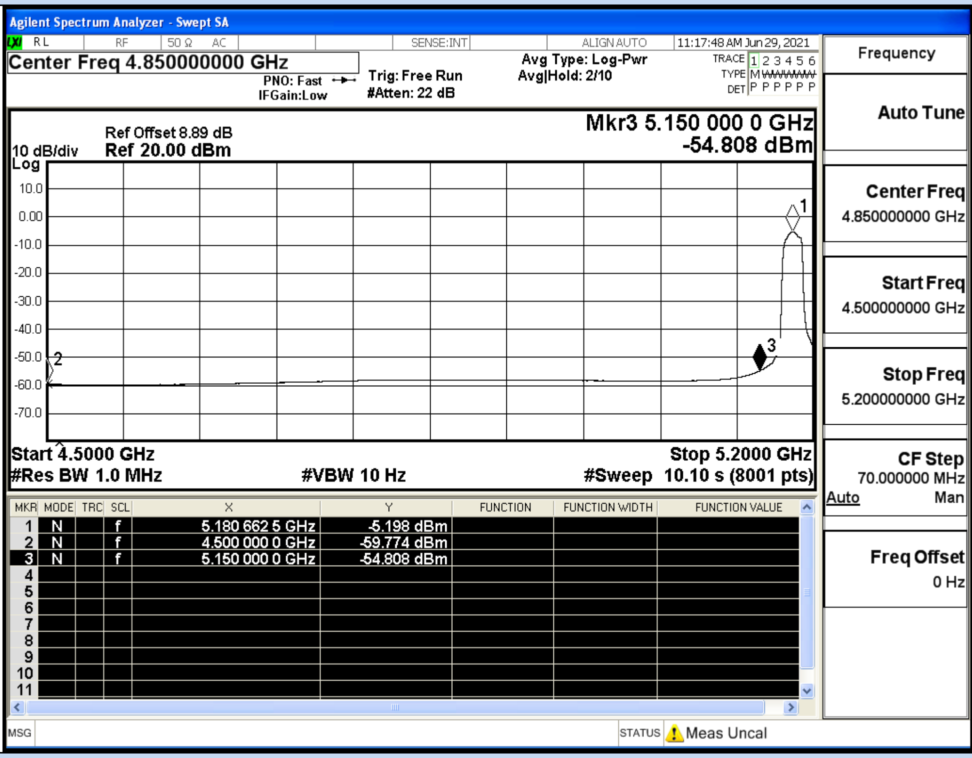


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

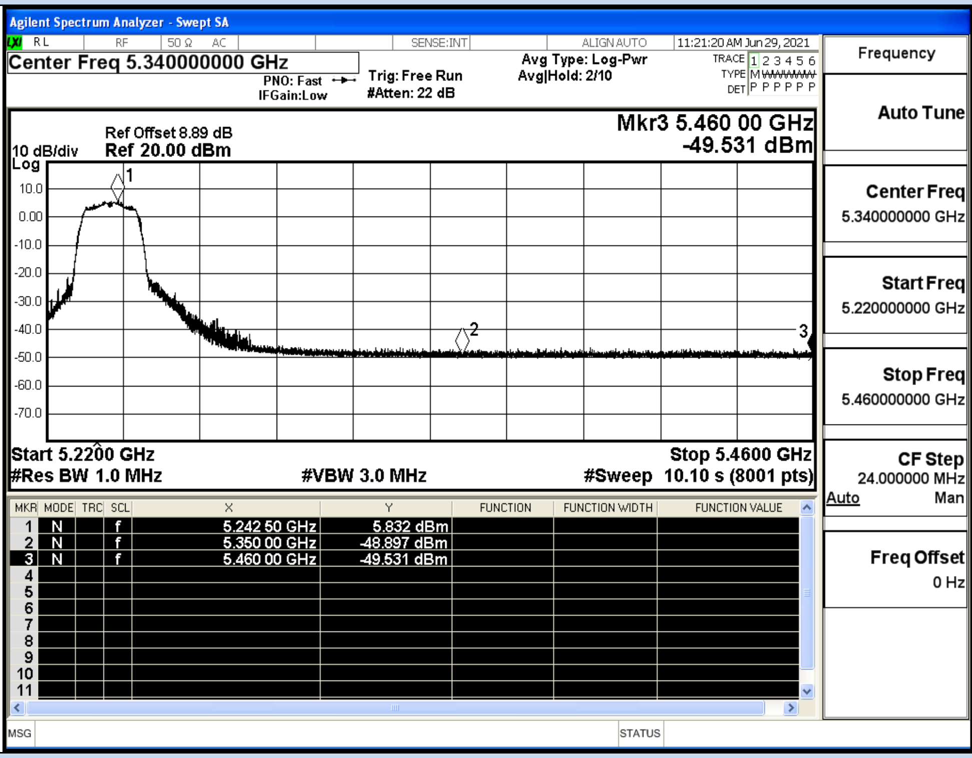


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

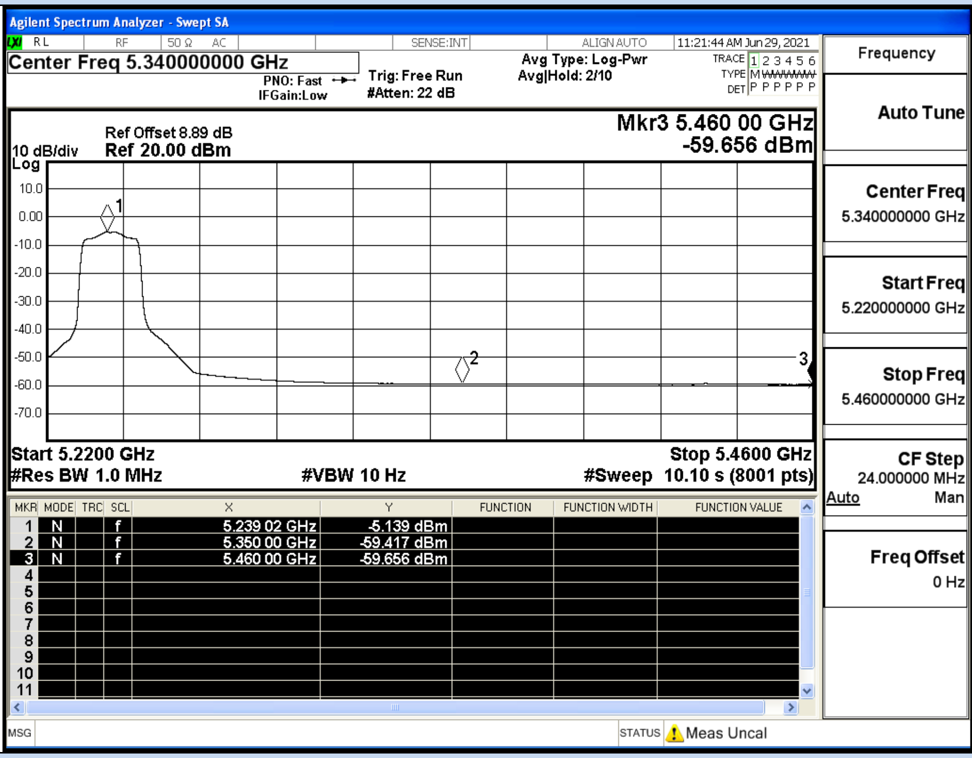


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

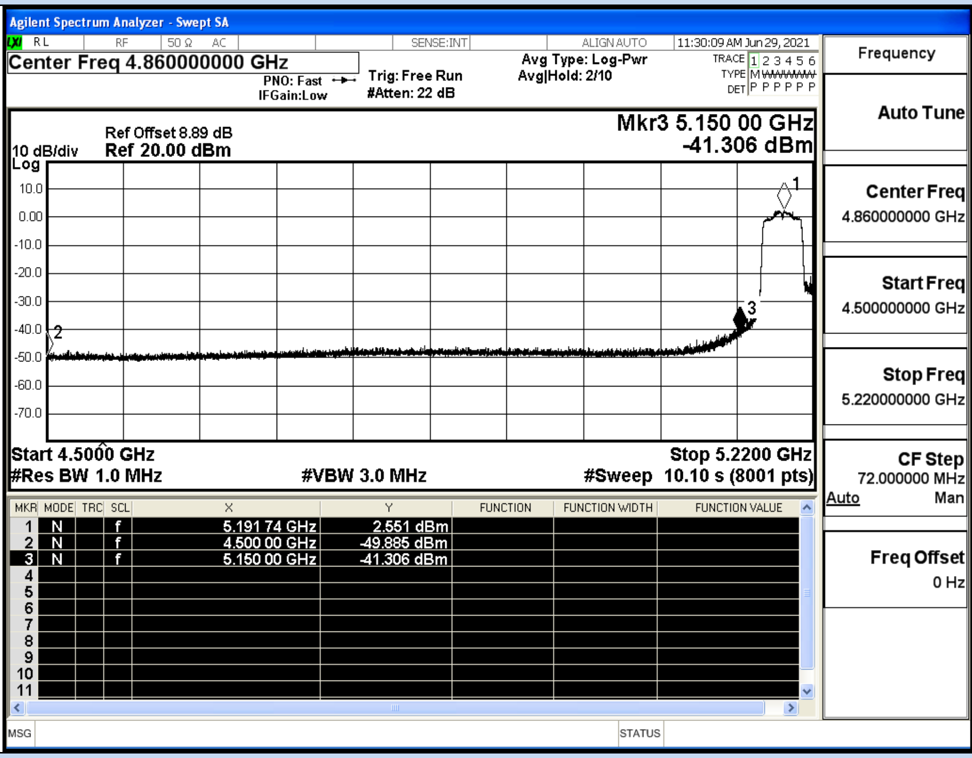
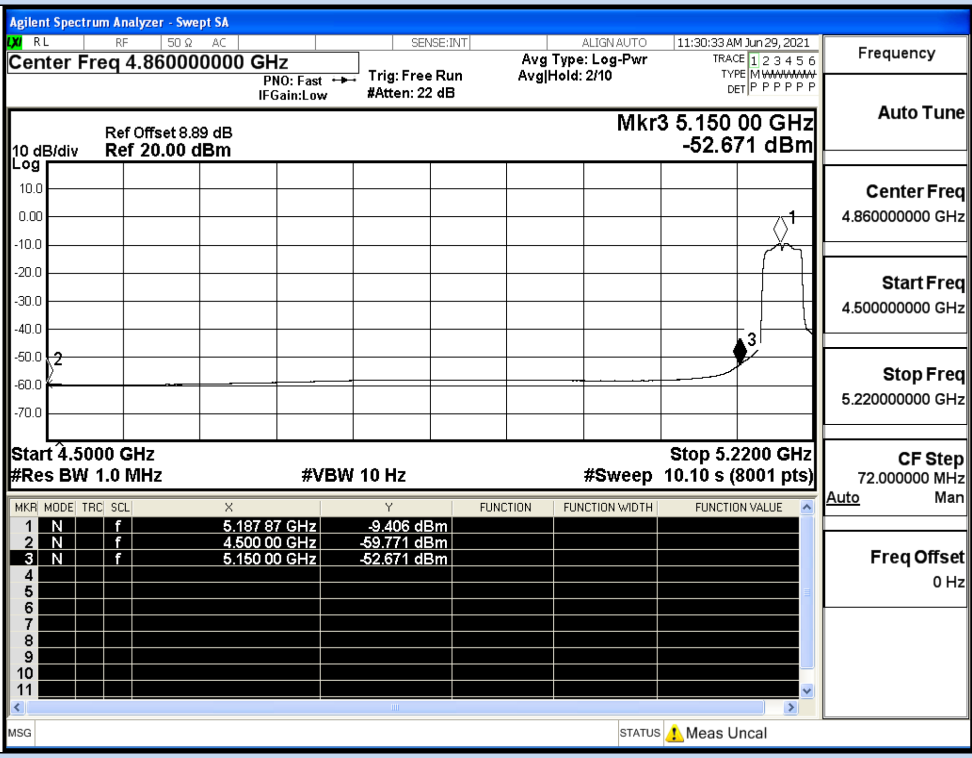
Undesirable Emissions Measurement

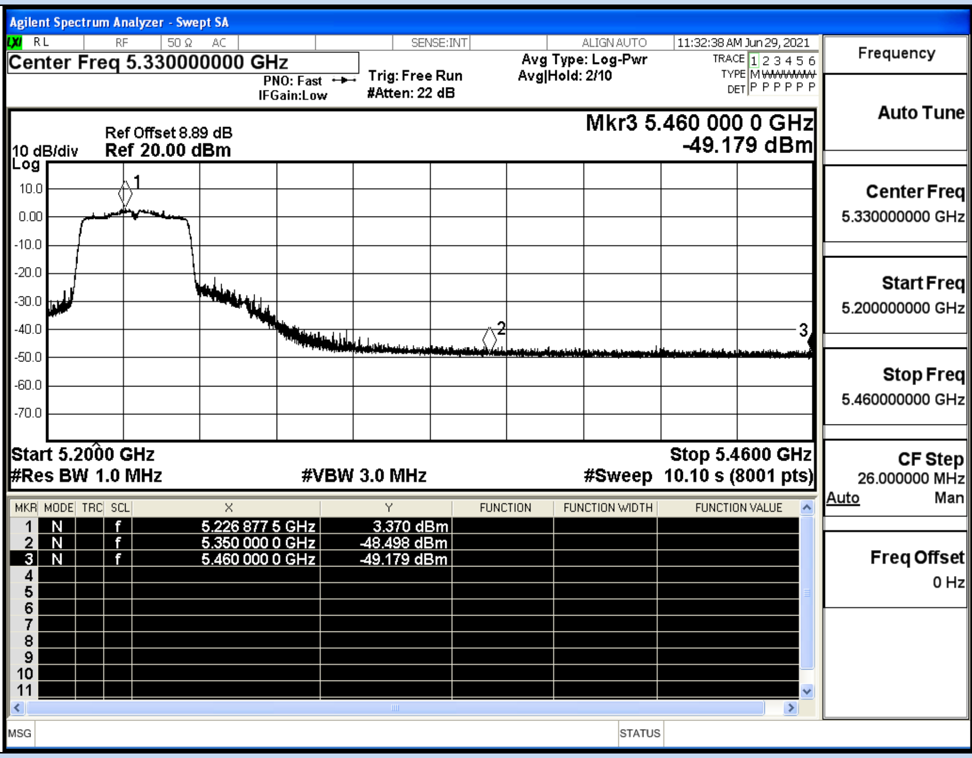
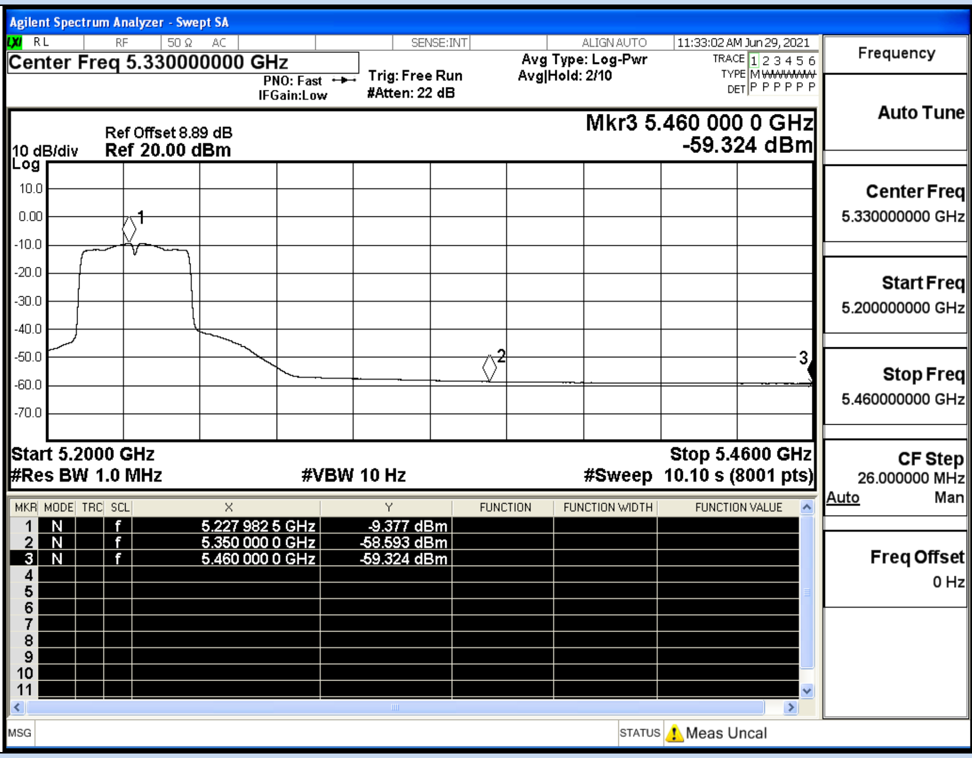


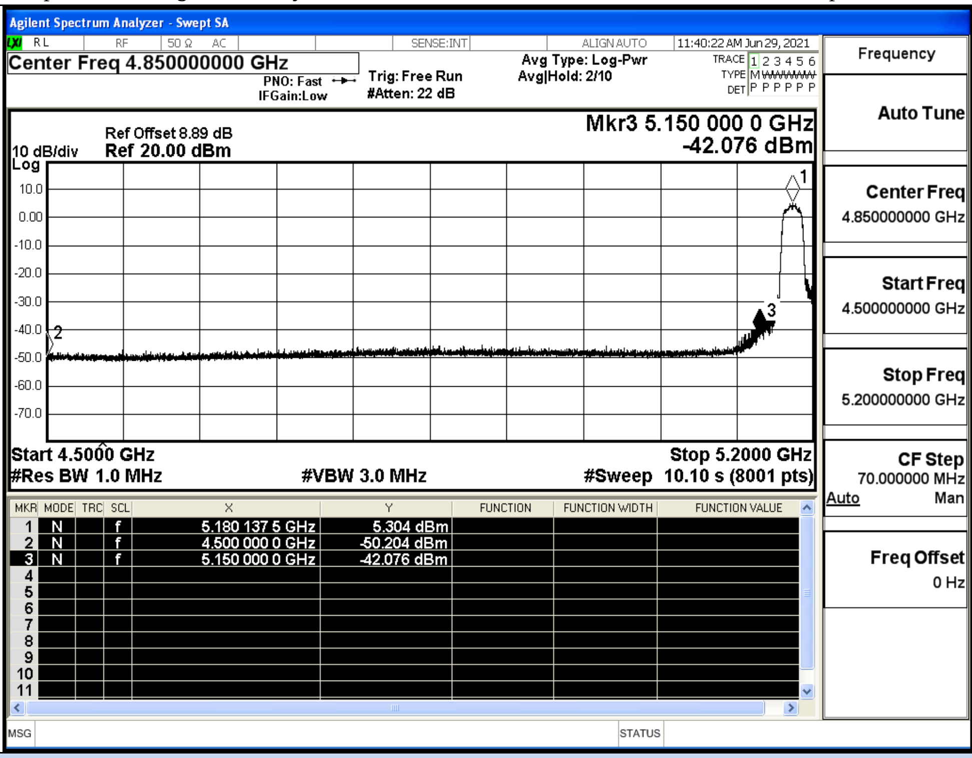
IEEE 802.11n20 / Channel 48 / 5240MHz / Peak



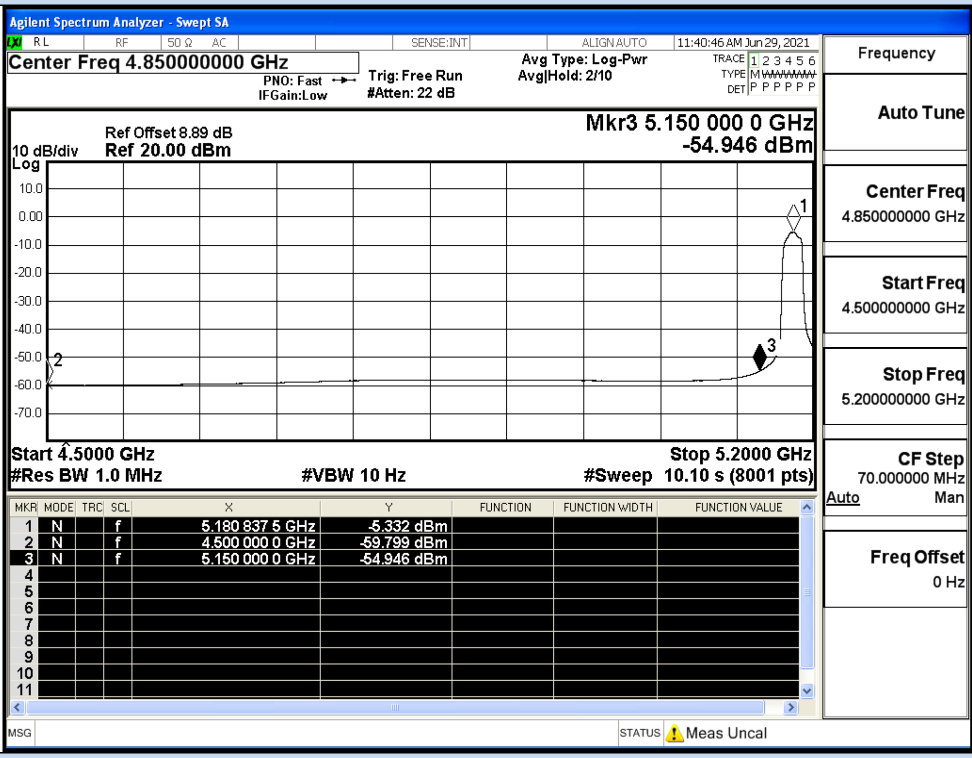
IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

IEEE 802.11n40 / Channel 38 / 5190MHz / Average

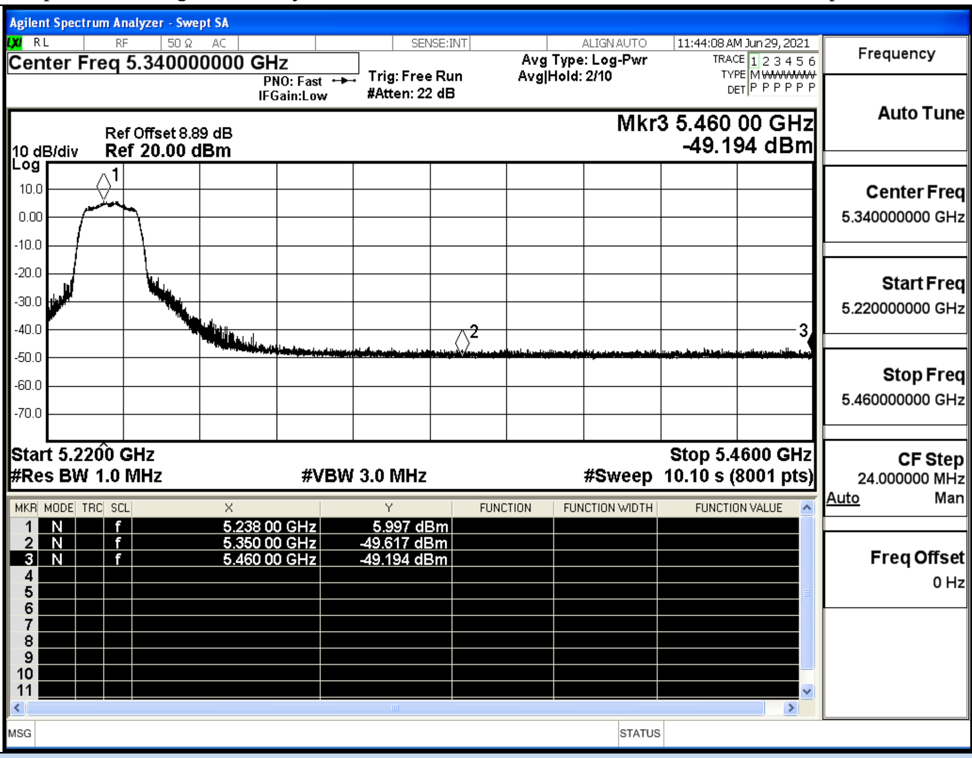
Undesirable Emissions Measurement

IEEE 802.11n40 / Channel 46 / 5230MHz / Peak

IEEE 802.11n40 / Channel 46 / 5230MHz / Average



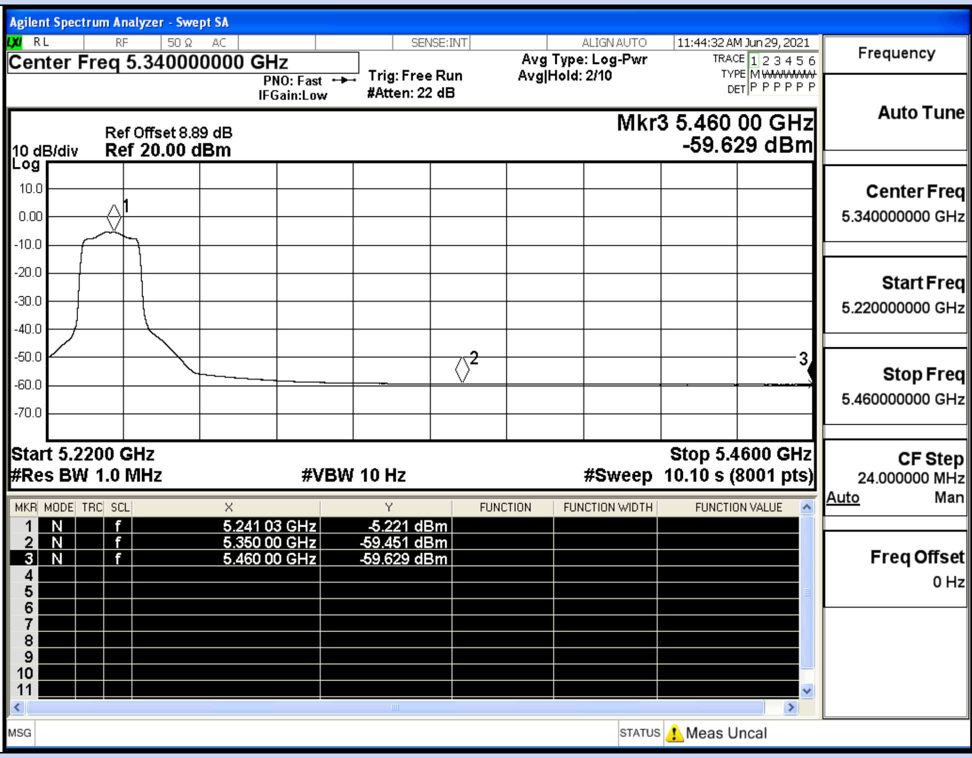
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



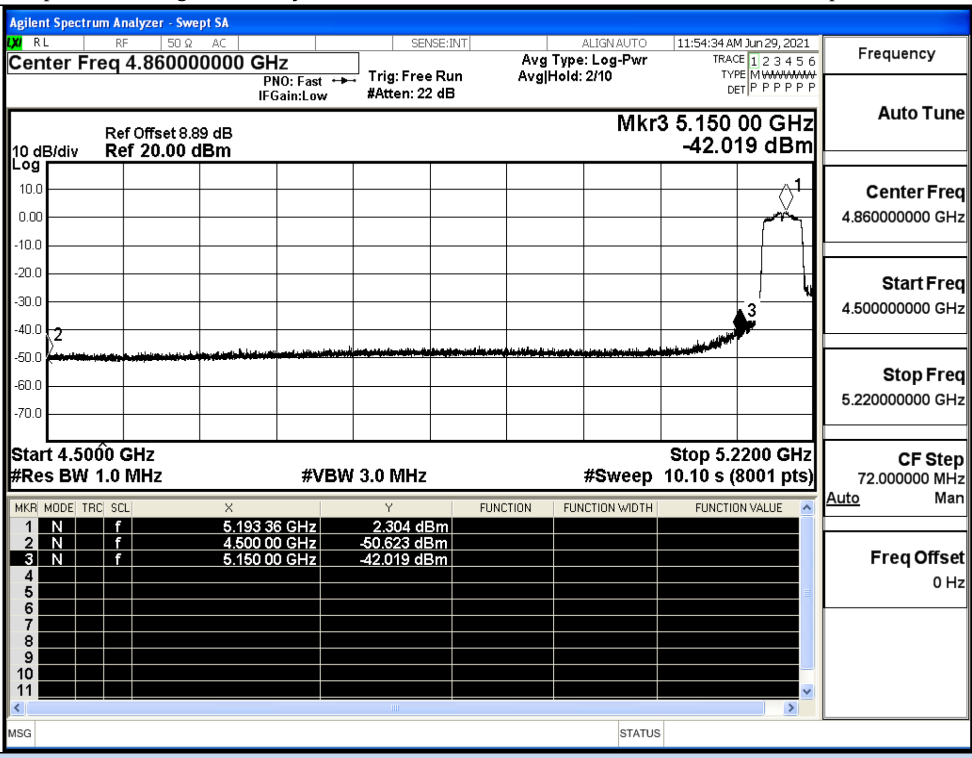
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



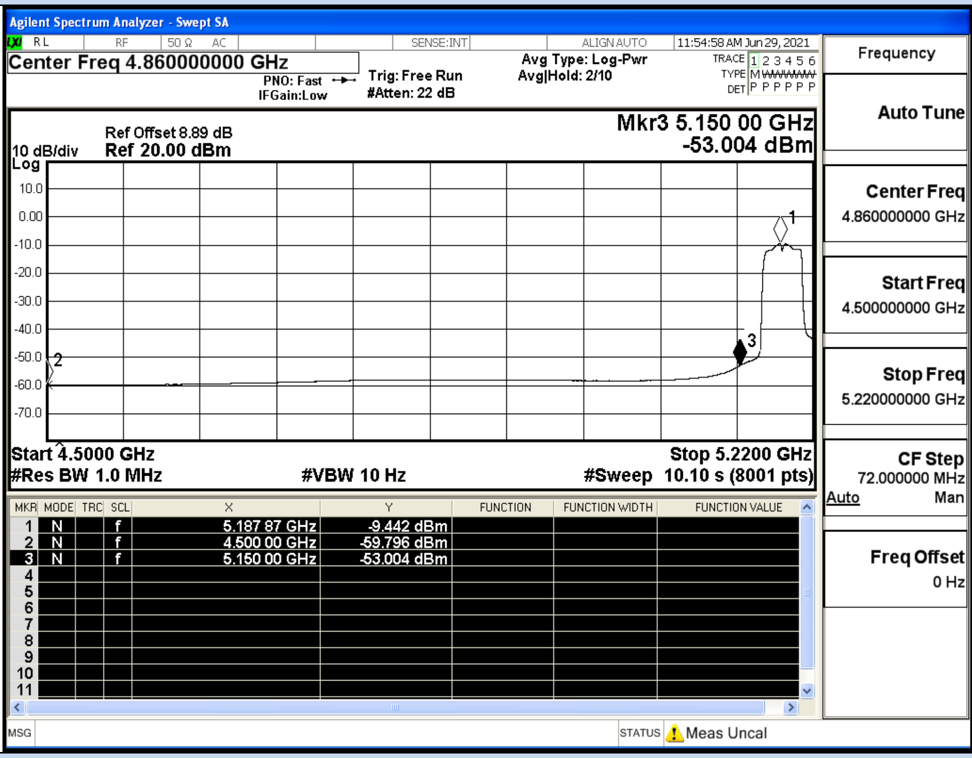
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



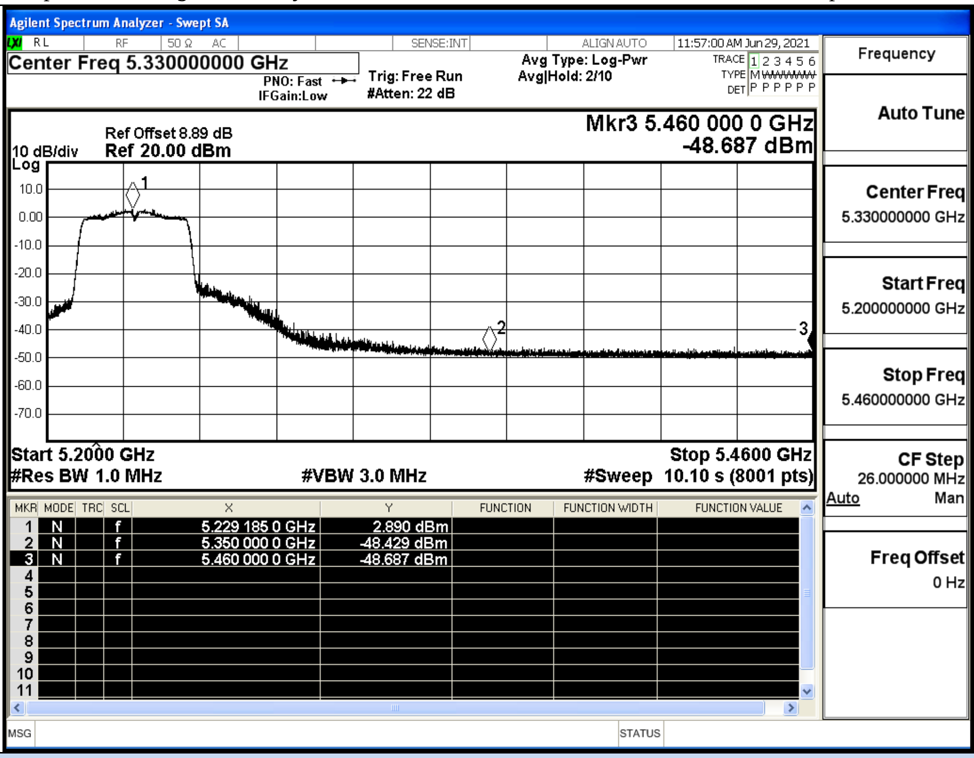
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



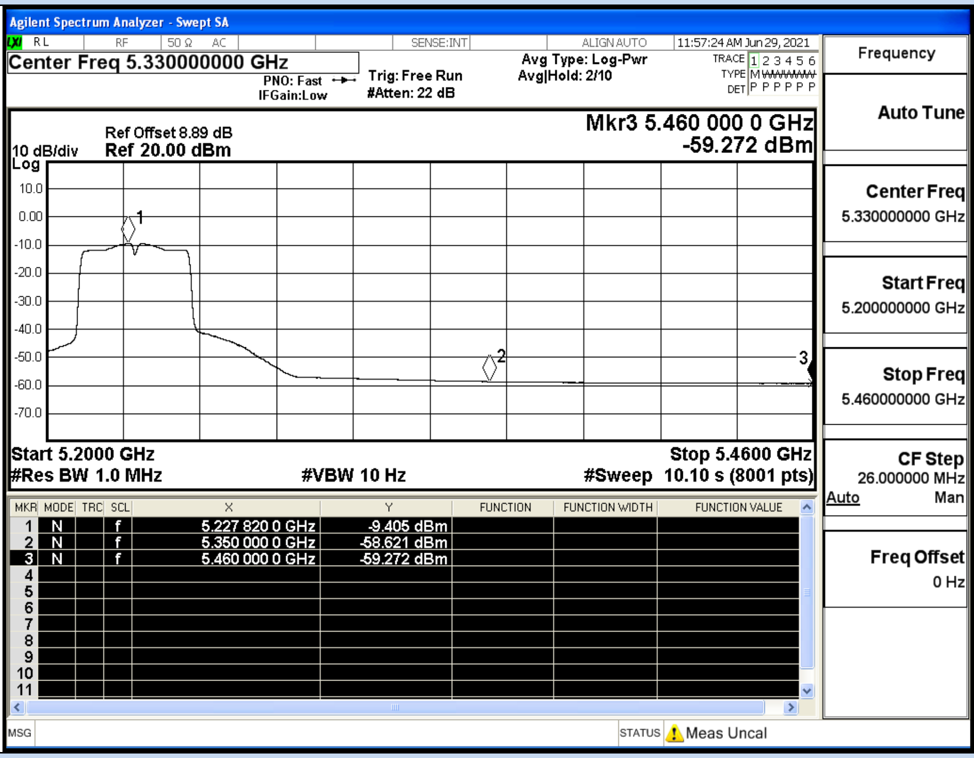
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



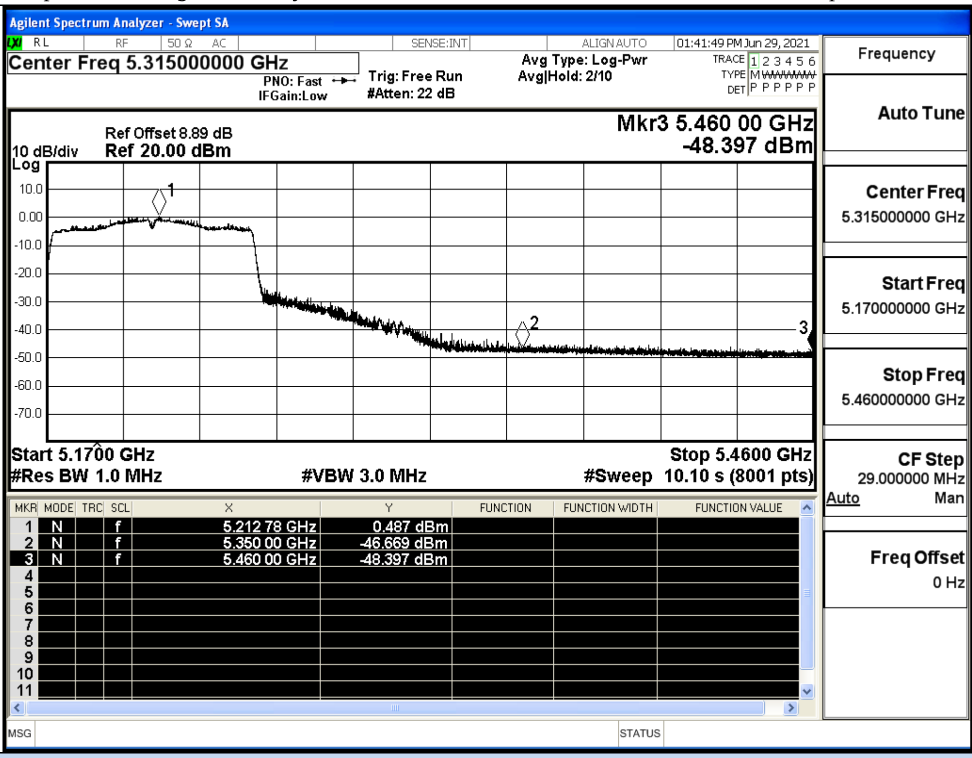
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



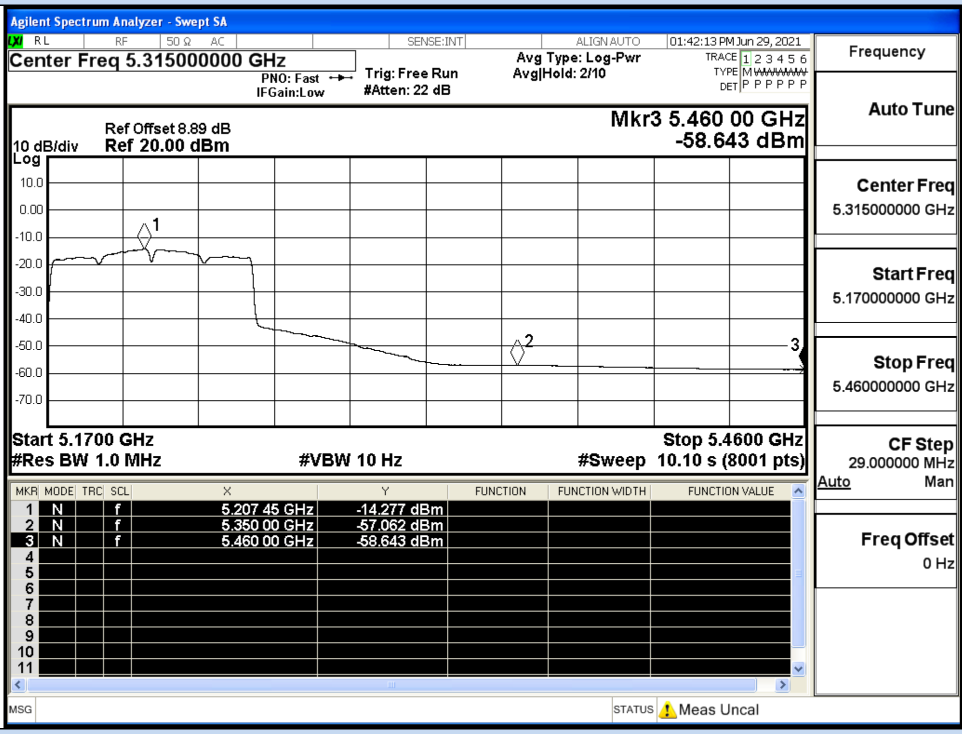
IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

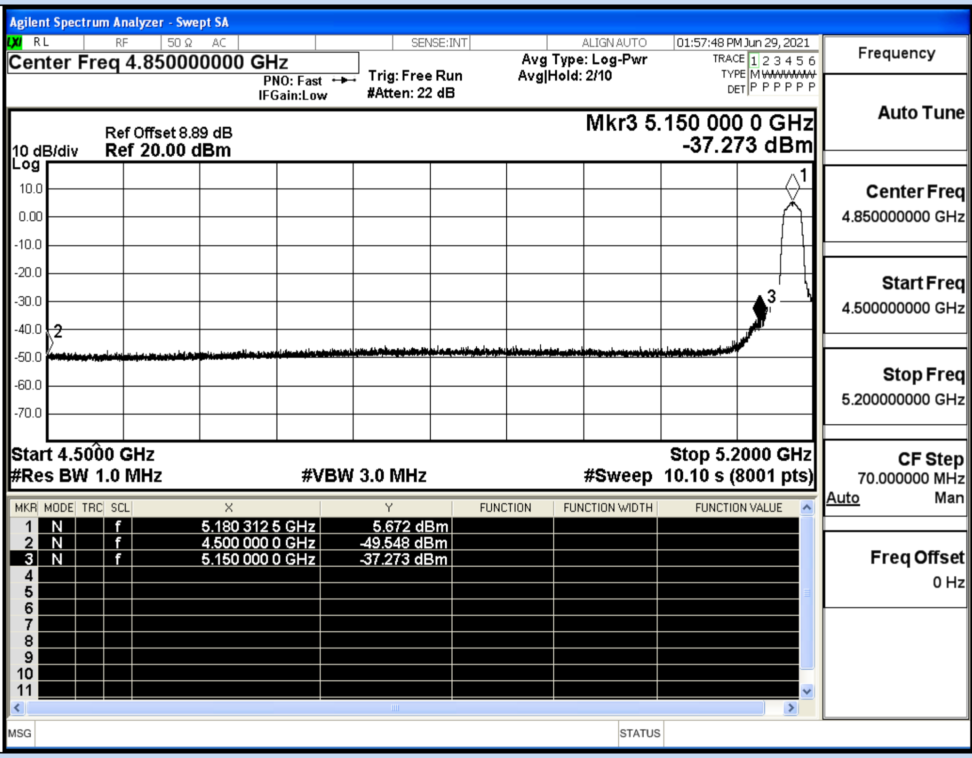


IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

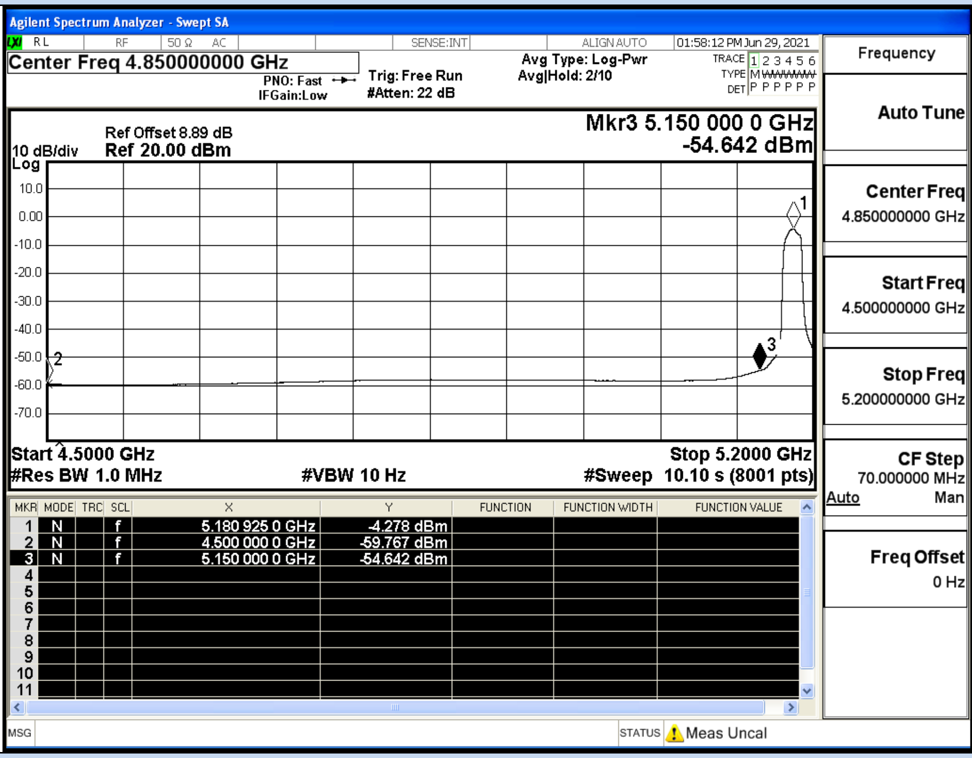
ANT1

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	-49.55	2.00	0	47.68	Peak	68.20	Pass
		4500.0	-59.77	2.00	0	37.46	Average	54.00	Pass
		5150.0	-37.27	2.00	0	59.96	Peak	68.20	Pass
		5150.0	-54.64	2.00	0	42.59	Average	54.00	Pass
	48	5350.0	-49.15	2.00	0	48.08	Peak	68.20	Pass
		5350.0	-59.41	2.00	0	37.82	Average	54.00	Pass
		5460.0	-49.79	2.00	0	47.44	Peak	68.20	Pass
		5460.0	-59.64	2.00	0	37.59	Average	54.00	Pass
11N20 SISO	36	4500.0	-49.47	2.00	0	47.76	Peak	68.20	Pass
		4500.0	-59.81	2.00	0	37.42	Average	54.00	Pass
		5150.0	-39.45	2.00	0	57.78	Peak	68.20	Pass
		5150.0	-54.85	2.00	0	42.38	Average	54.00	Pass
	48	5350.0	-49.15	2.00	0	48.08	Peak	68.20	Pass
		5350.0	-59.43	2.00	0	37.80	Average	54.00	Pass
		5460.0	-48.93	2.00	0	48.30	Peak	68.20	Pass
		5460.0	-59.61	2.00	0	37.62	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.51	2.00	0	47.72	Peak	68.20	Pass
		4500.0	-59.75	2.00	0	37.48	Average	54.00	Pass
		5150.0	-40.84	2.00	0	56.39	Peak	68.20	Pass
		5150.0	-52.62	2.00	0	44.61	Average	54.00	Pass
	46	5350.0	-48.84	2.00	0	48.39	Peak	68.20	Pass
		5350.0	-58.58	2.00	0	38.65	Average	54.00	Pass
		5460.0	-48.49	2.00	0	48.74	Peak	68.20	Pass
		5460.0	-59.30	2.00	0	37.93	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.34	2.00	0	46.89	Peak	68.20	Pass
		4500.0	-59.74	2.00	0	37.49	Average	54.00	Pass
		5150.0	-37.17	2.00	0	60.06	Peak	68.20	Pass
		5150.0	-54.56	2.00	0	42.67	Average	54.00	Pass
	48	4500.0	-50.34	2.00	0	46.89	Peak	68.20	Pass
		4500.0	-59.74	2.00	0	37.49	Average	54.00	Pass
		5150.0	-37.17	2.00	0	60.06	Peak	68.20	Pass
		5150.0	-54.56	2.00	0	42.67	Average	54.00	Pass
11AC40 SISO	38	4500.0	-50.23	2.00	0	47.00	Peak	68.20	Pass
		4500.0	-59.76	2.00	0	37.47	Average	54.00	Pass
		5150.0	-41.18	2.00	0	56.05	Peak	68.20	Pass
		5150.0	-52.68	2.00	0	44.55	Average	54.00	Pass
	46	5350.0	-47.32	2.00	0	49.91	Peak	68.20	Pass
		5350.0	-58.64	2.00	0	38.59	Average	54.00	Pass
		5460.0	-48.66	2.00	0	48.57	Peak	68.20	Pass
		5460.0	-59.28	2.00	0	37.95	Average	54.00	Pass
11AC80 SISO	42	4500.0	-47.49	2.00	0	49.74	Peak	68.20	Pass
		4500.0	-57.06	2.00	0	40.17	Average	54.00	Pass
		5150.0	-49.74	2.00	0	47.49	Peak	68.20	Pass
		5150.0	-58.67	2.00	0	38.56	Average	54.00	Pass
		5350.0	-47.49	2.00	0	49.74	Peak	68.20	Pass
		5350.0	-57.06	2.00	0	40.17	Average	54.00	Pass
		5460.0	-49.74	2.00	0	47.49	Peak	68.20	Pass
		5460.0	-58.67	2.00	0	38.56	Average	54.00	Pass

Undesirable Emissions Measurement

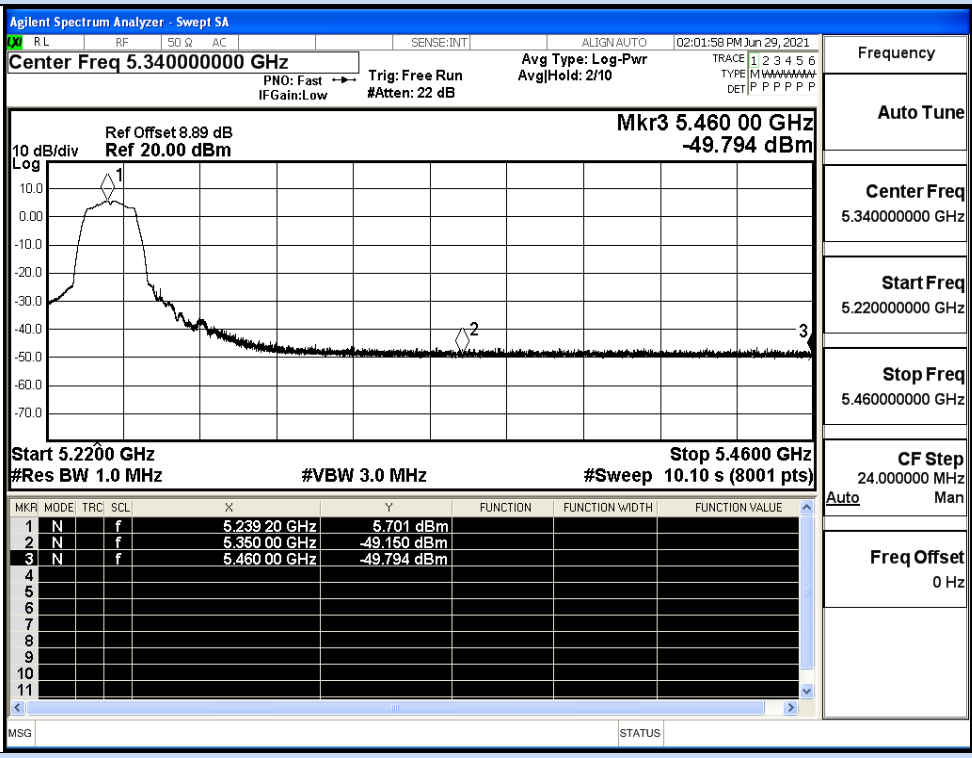


IEEE 802.11a / Channel 36 / 5180MHz / Peak

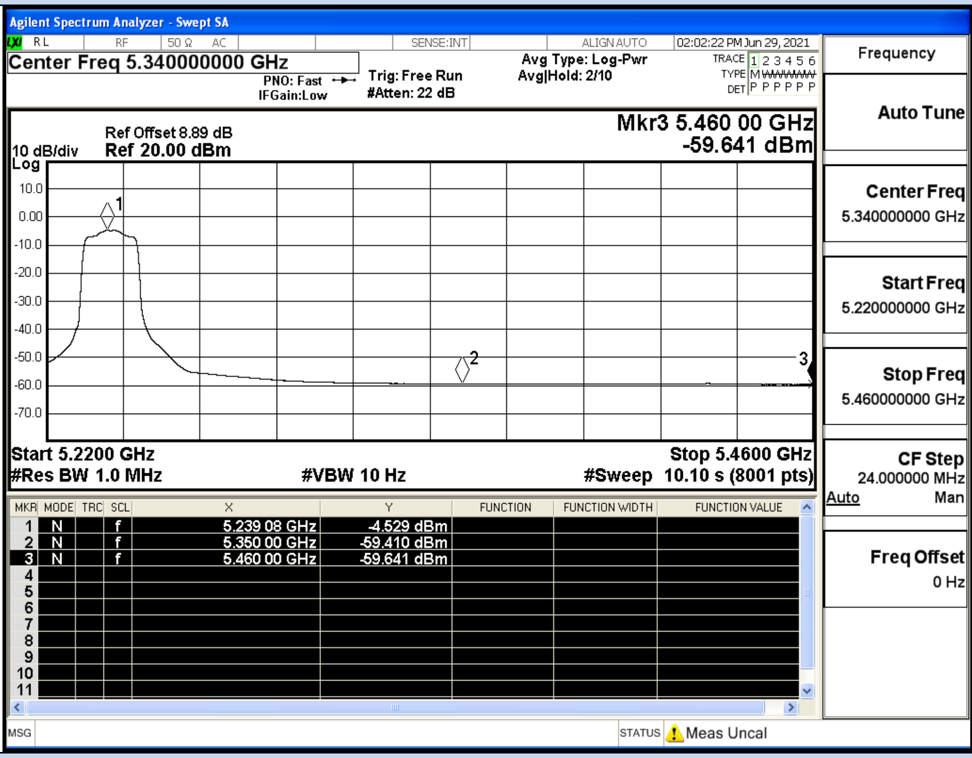


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

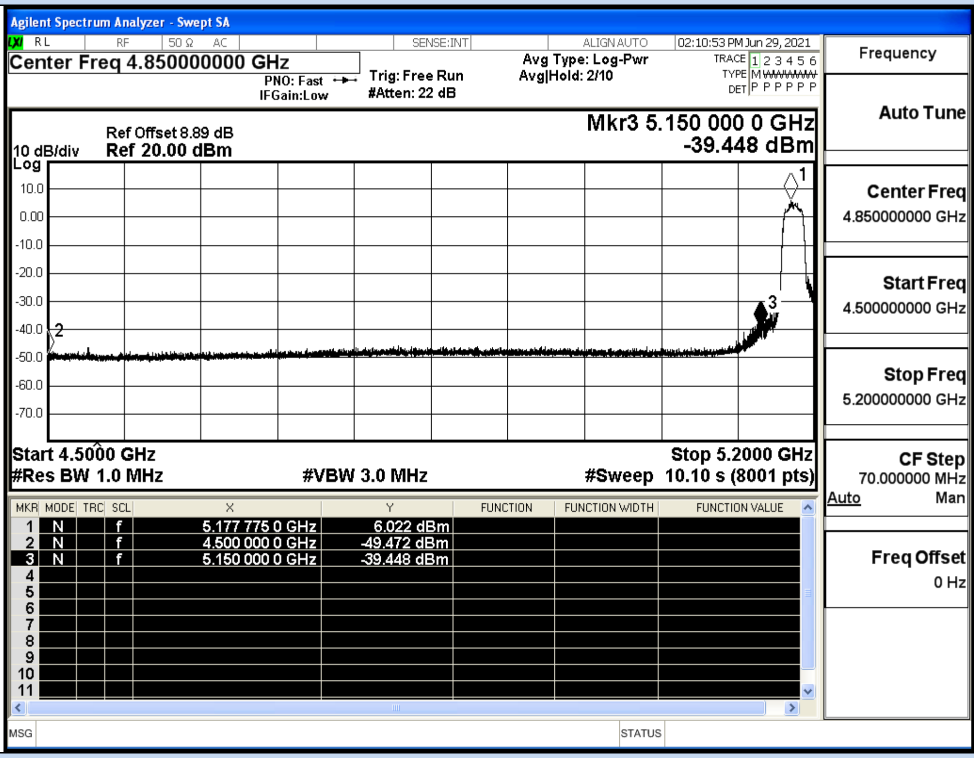


IEEE 802.11a / Channel 48 / 5240MHz / Peak

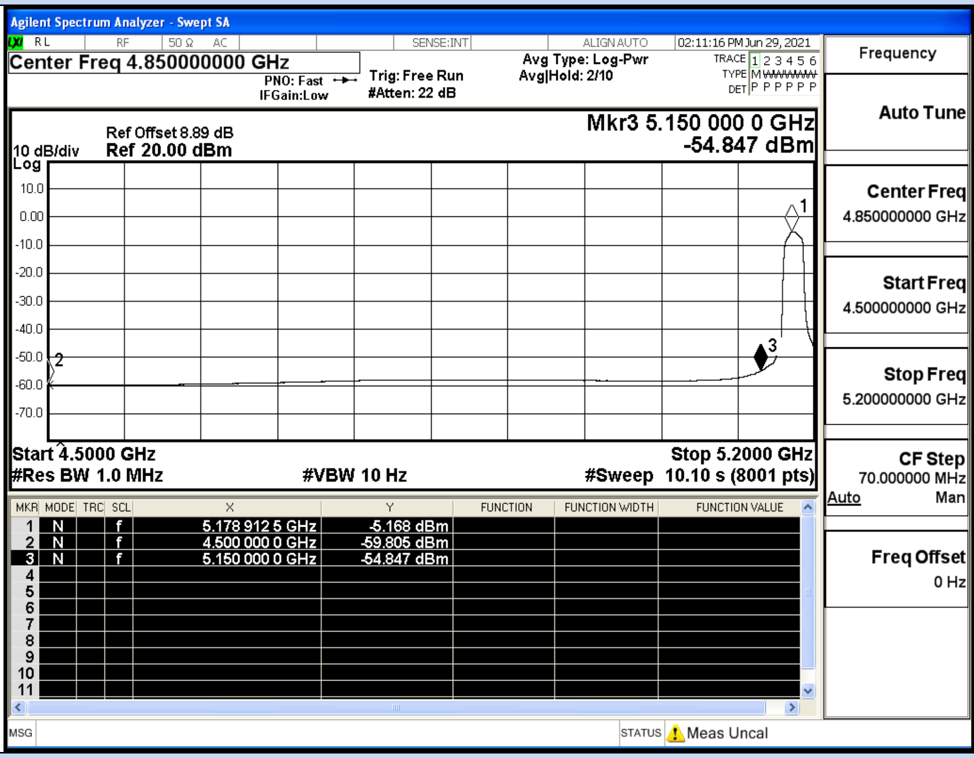


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

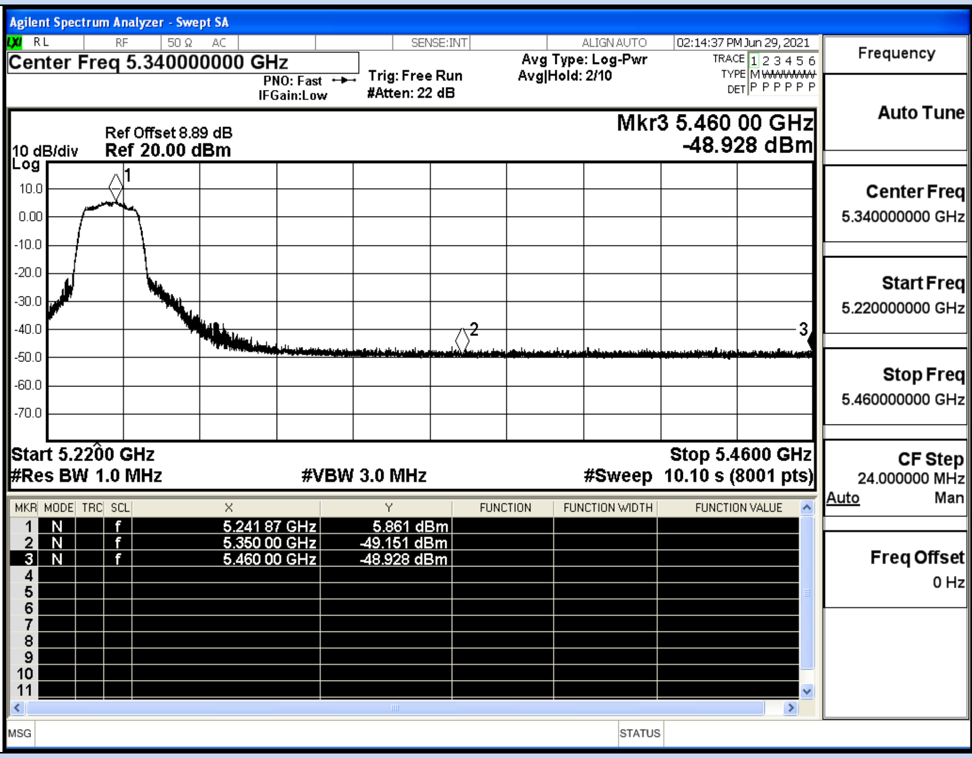


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

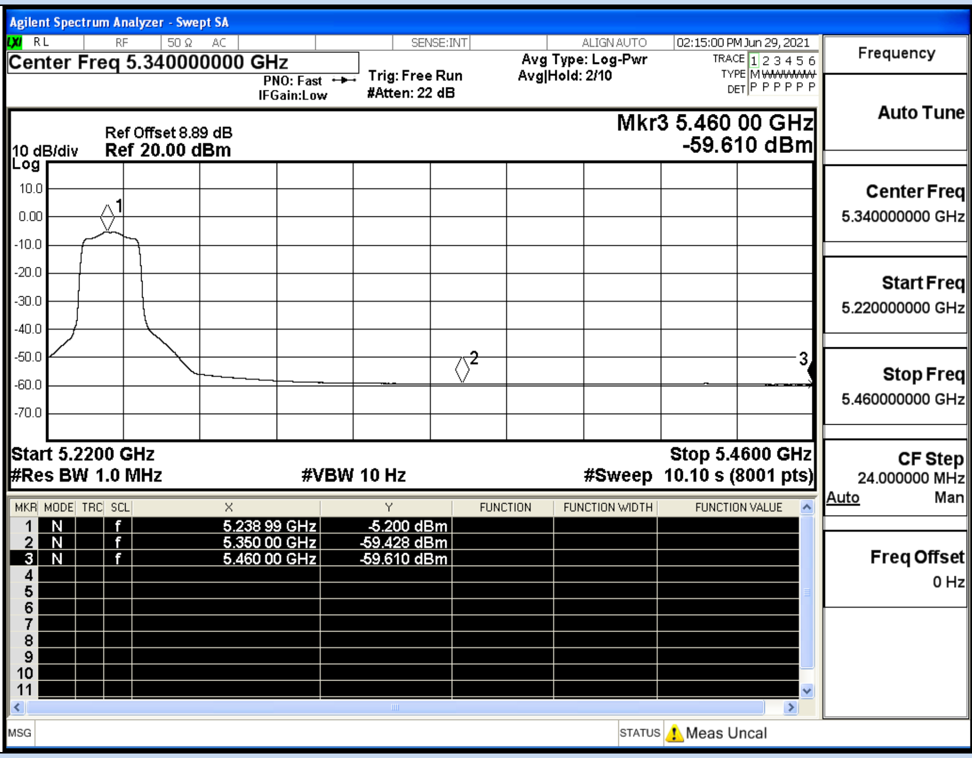


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

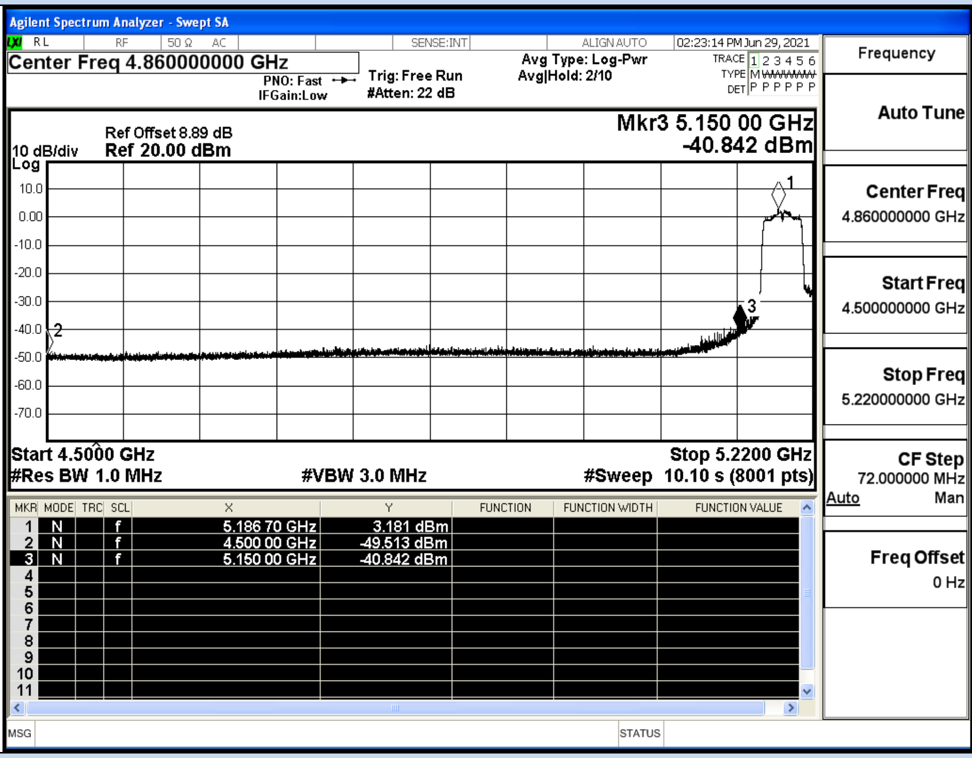


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

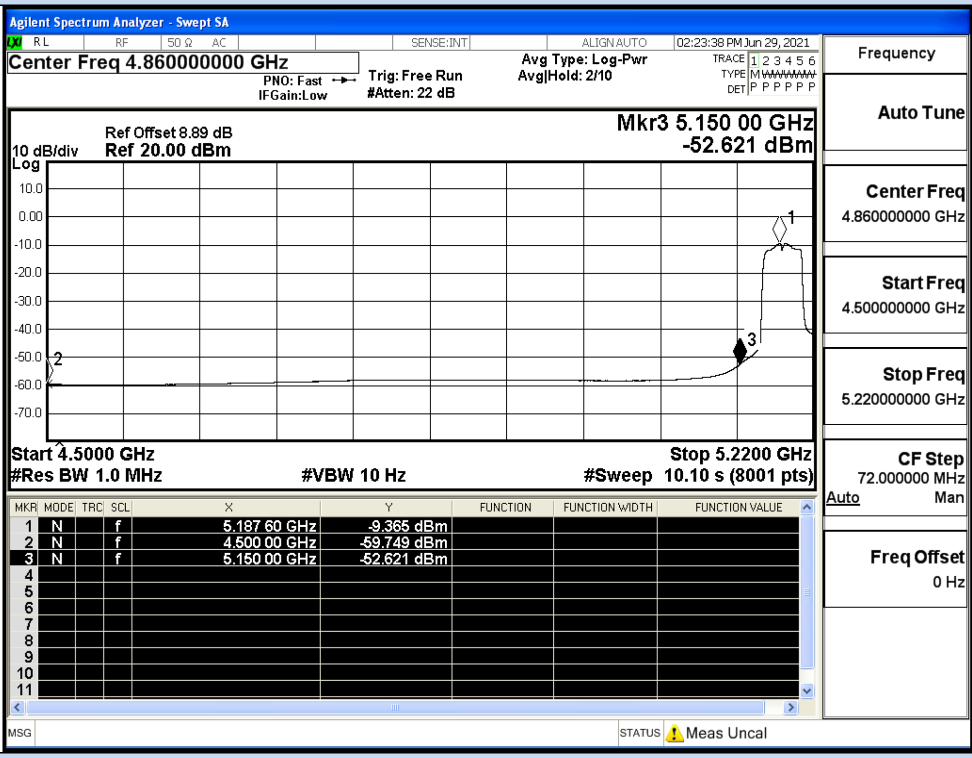


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

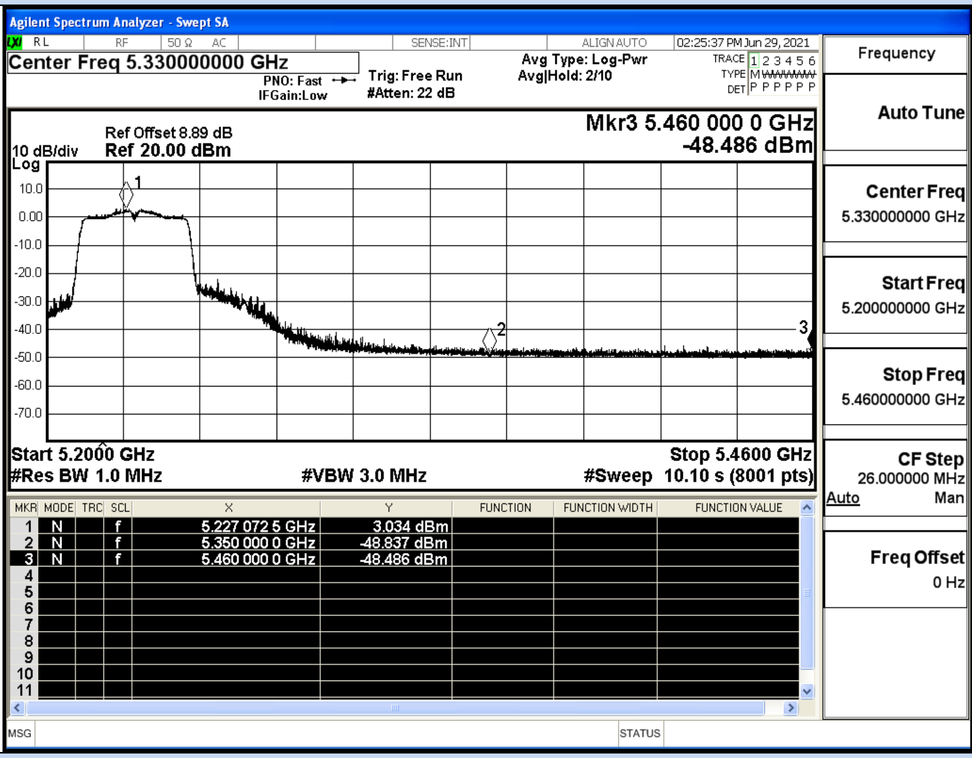


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

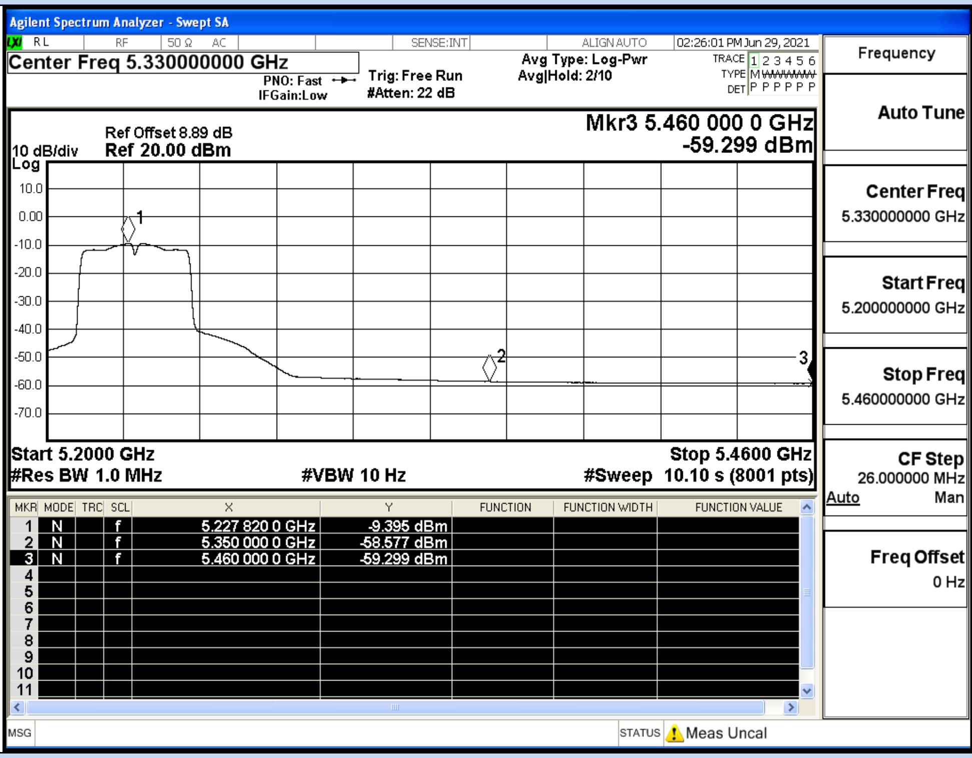


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

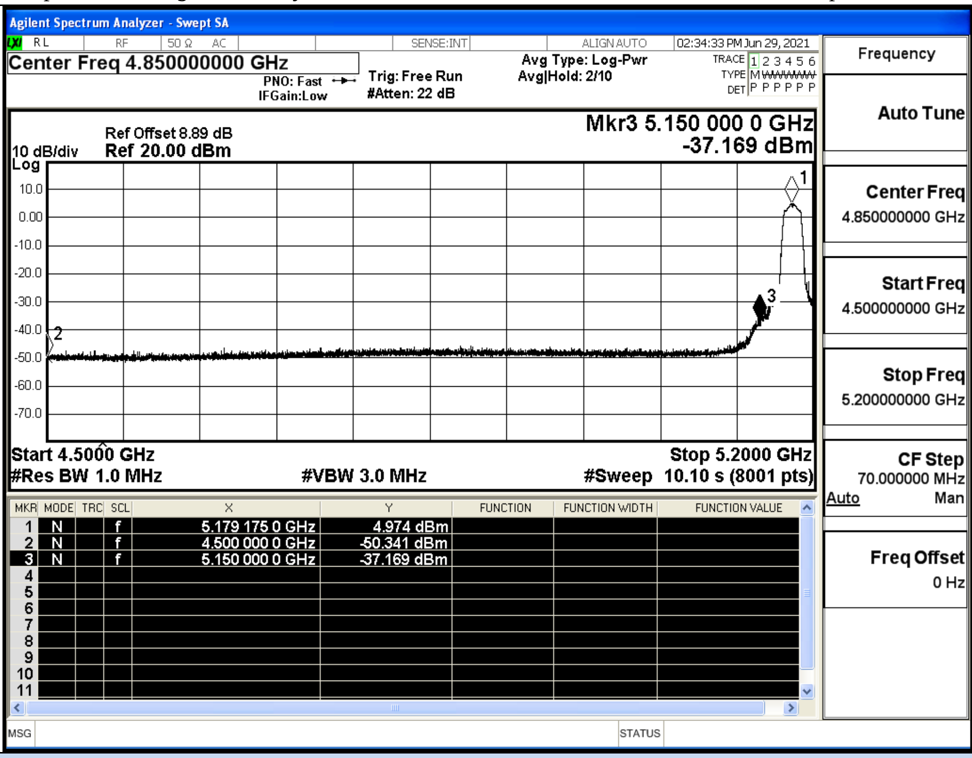
Undesirable Emissions Measurement



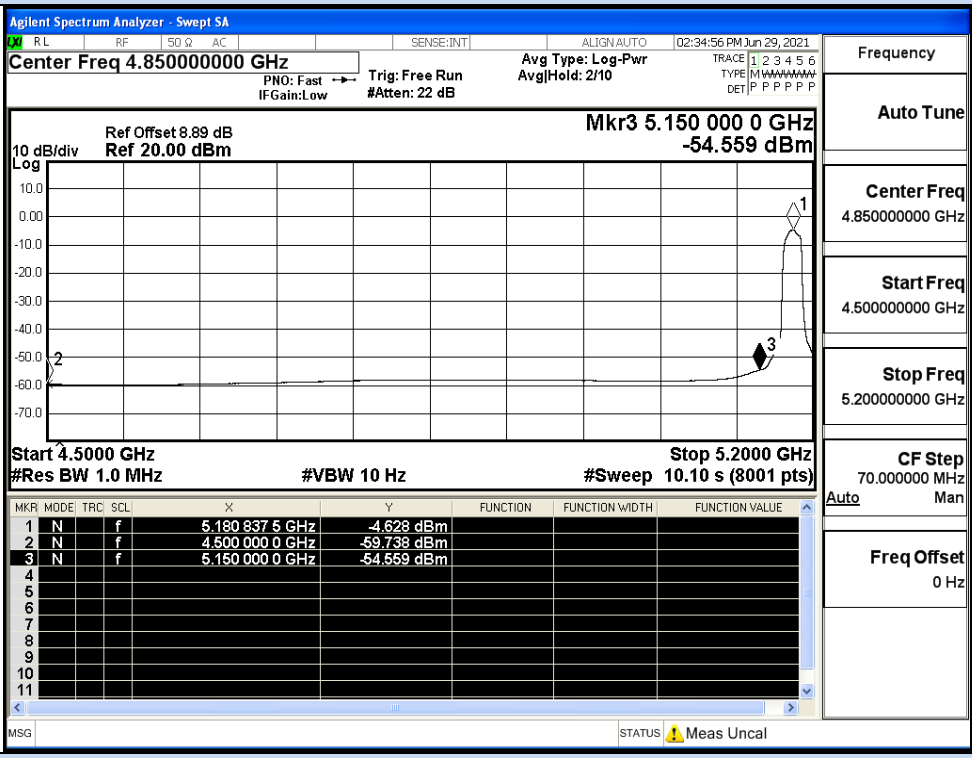
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



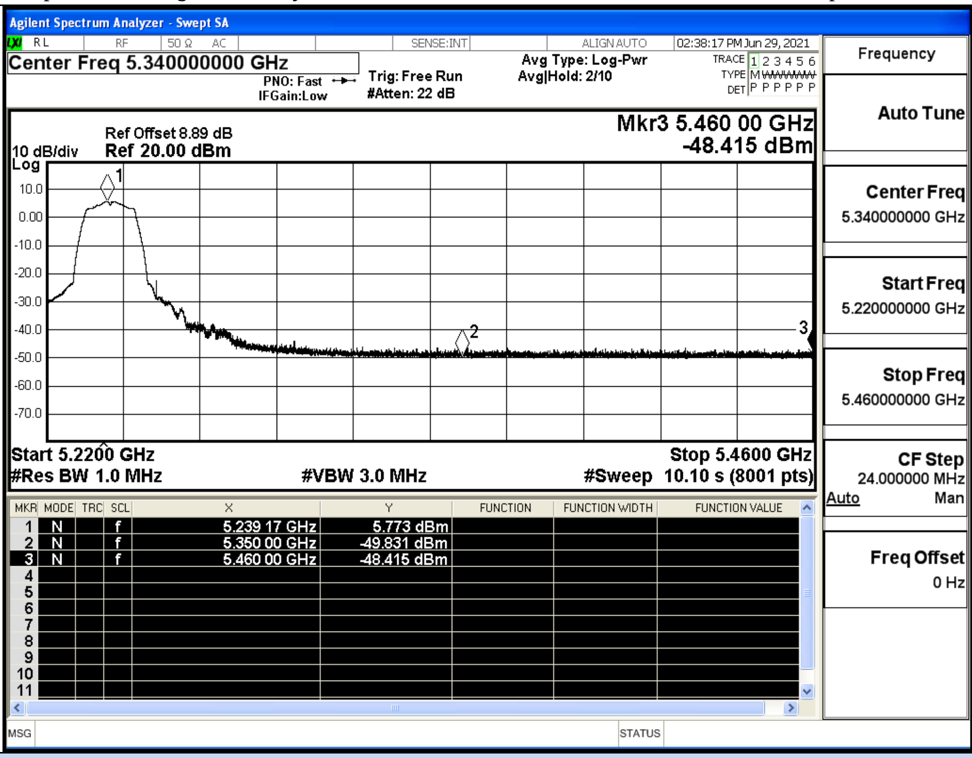
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



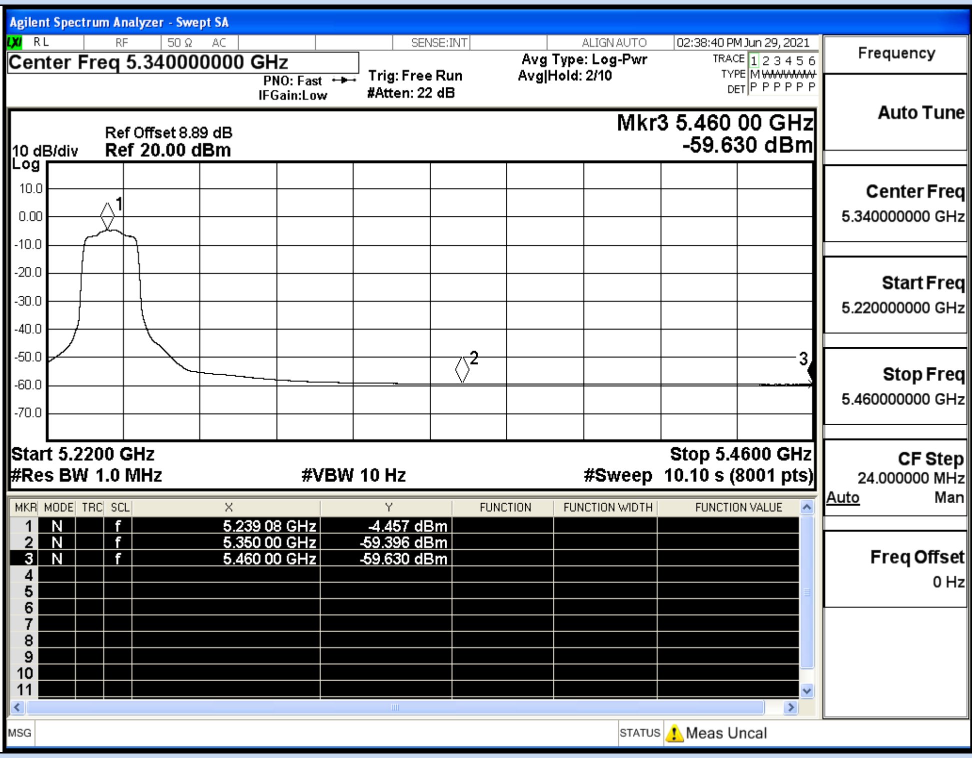
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



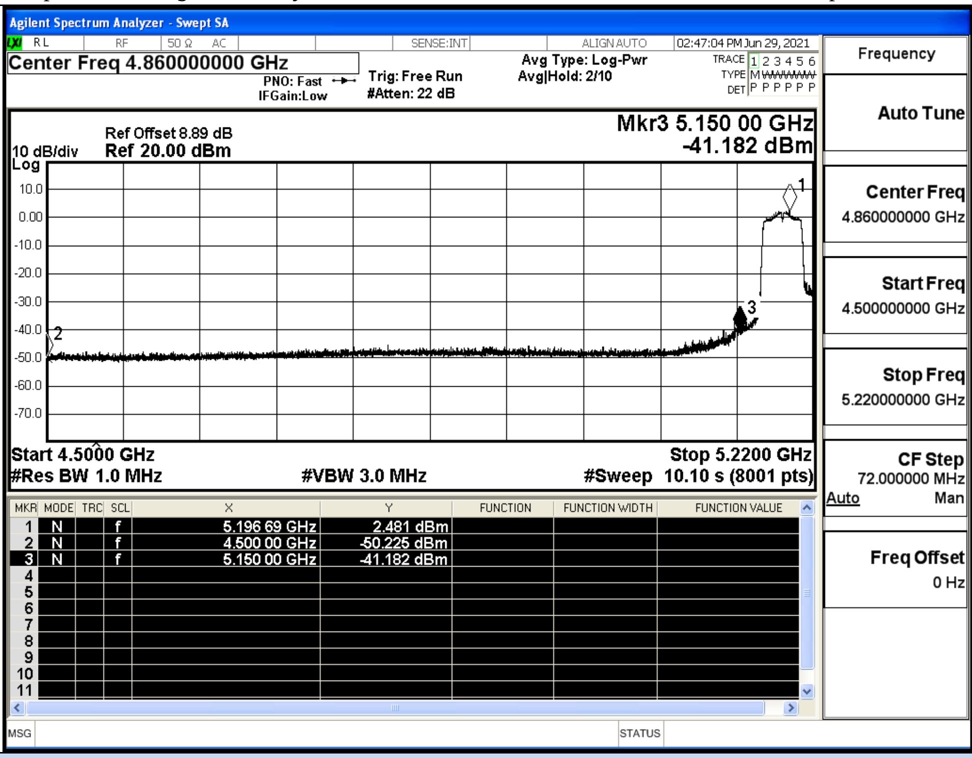
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



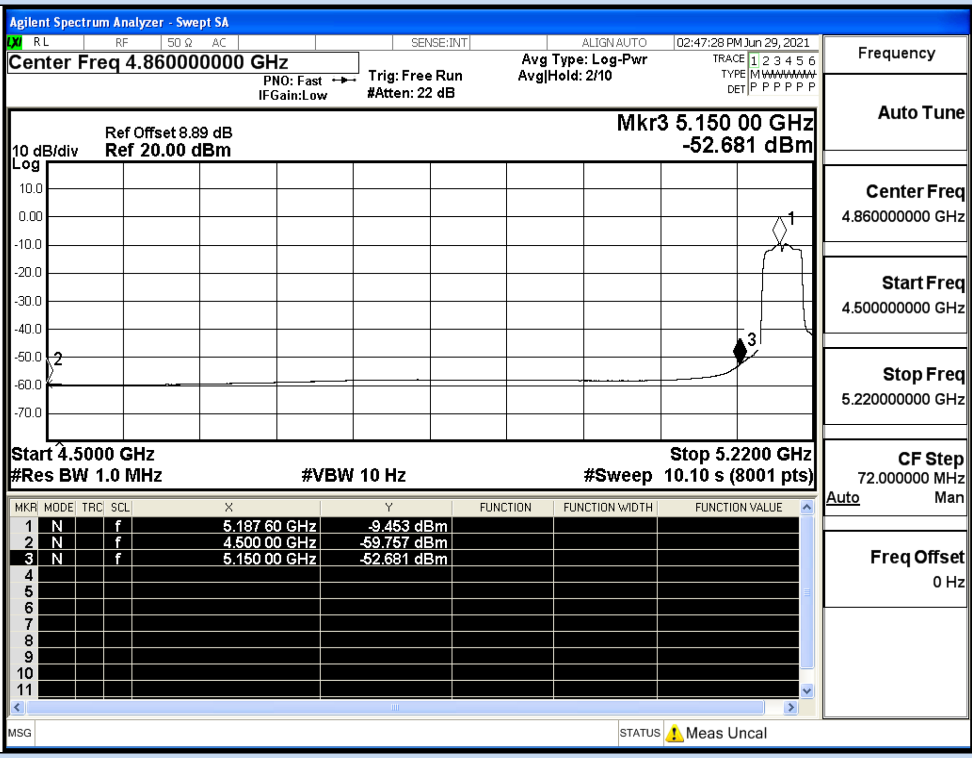
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



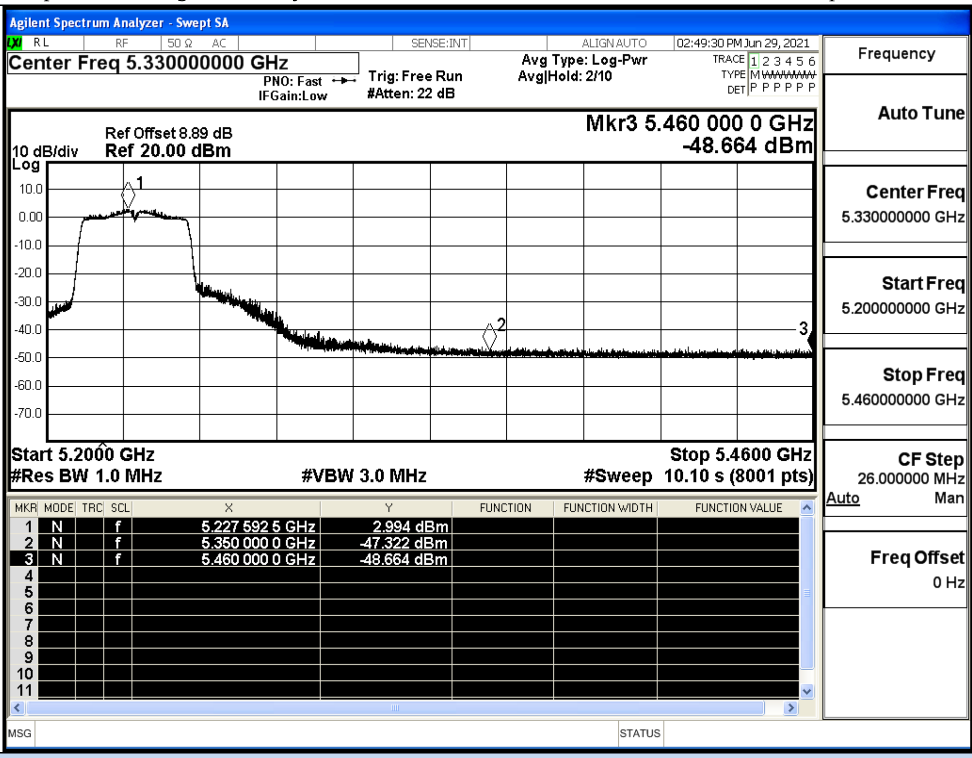
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



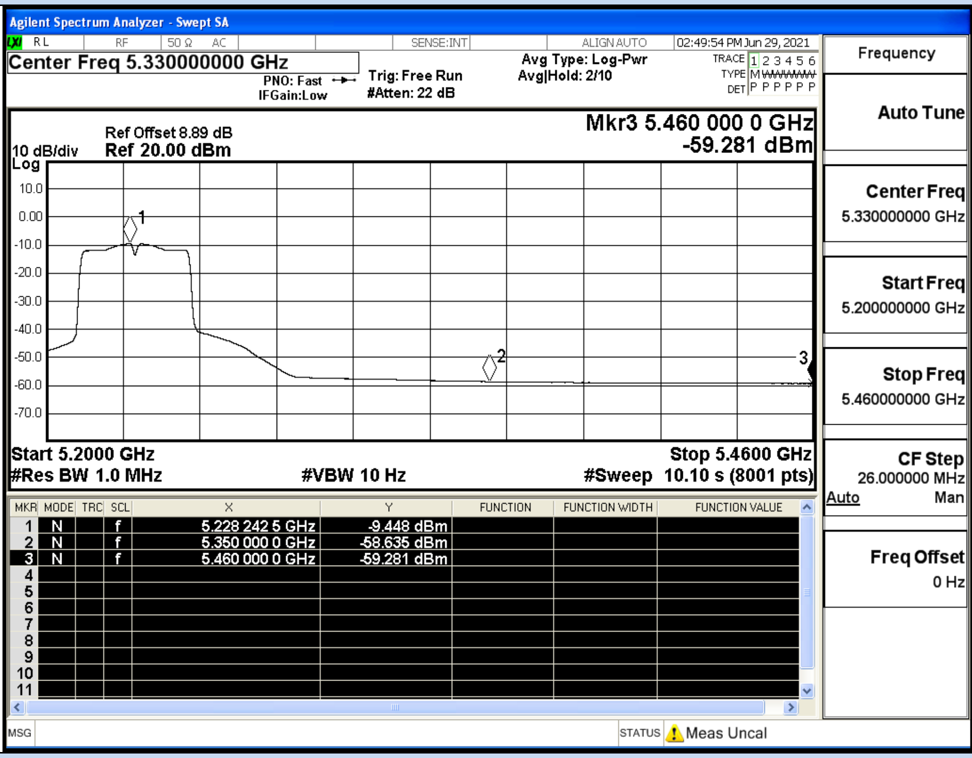
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



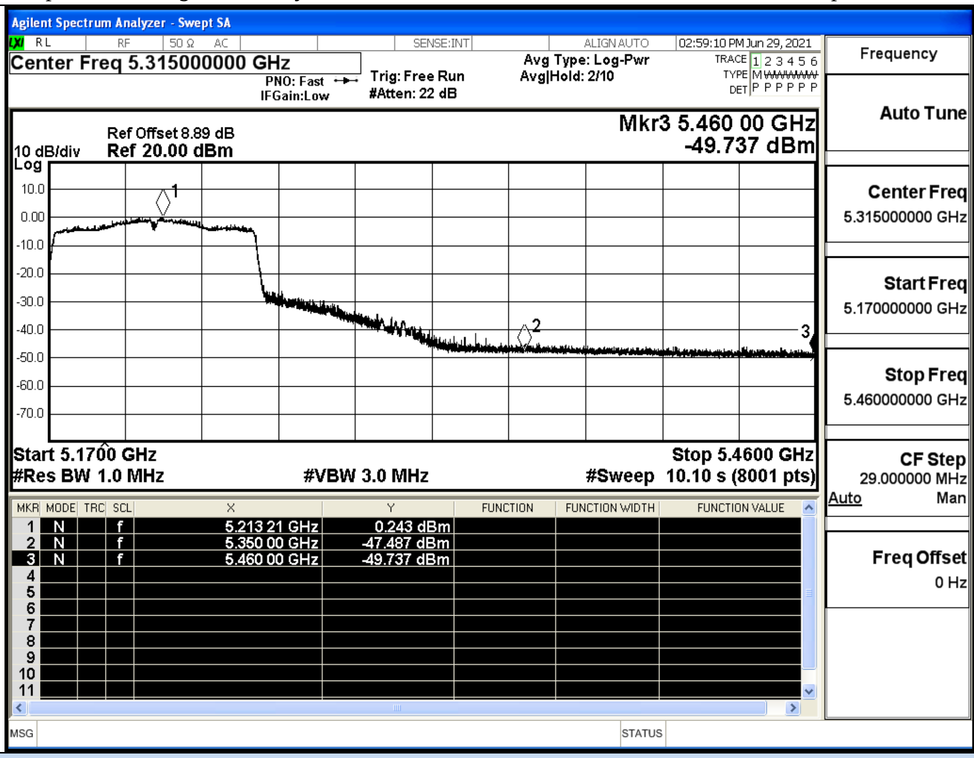
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



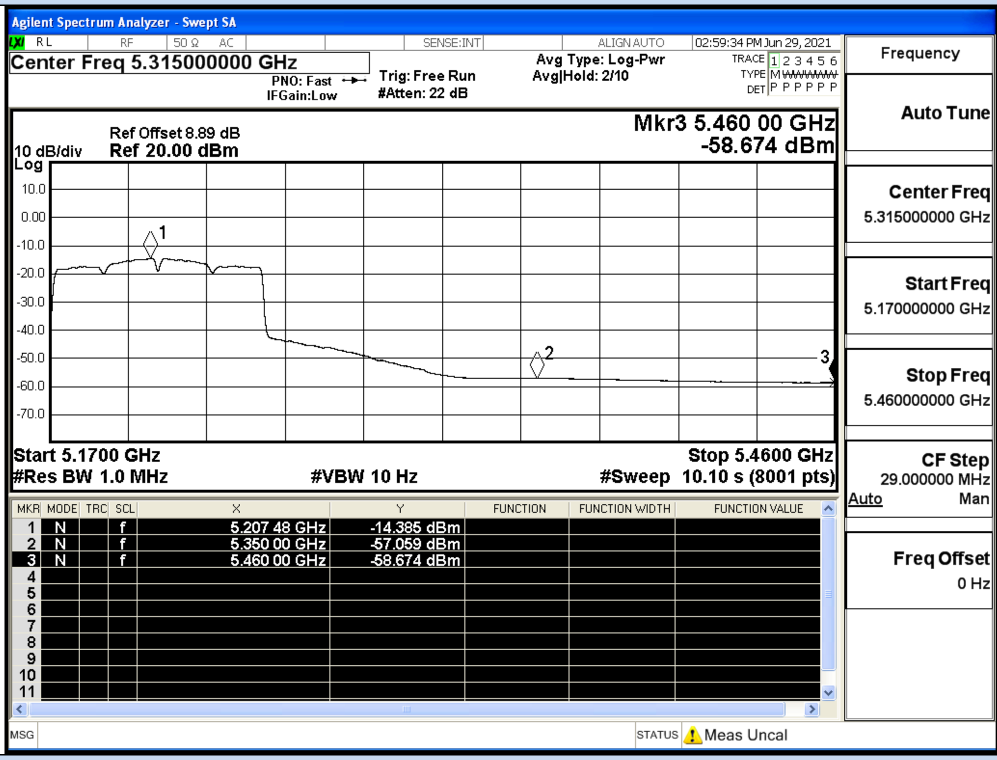
IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

MIMO

Test Mode	Channel	Frequency (MHz)	ANT 0 Conducted Power (dBm)	ANT 1 Conducted Power (dBm)	MIMO Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
11N20	36	4500.0	-49.92	-49.47	-46.68	5.01	0	50.55	Peak	68.20	Pass
		4500.0	-59.77	-59.81	-56.78	5.01	0	40.45	Average	54.00	Pass
		5150.0	-41.31	-39.45	-37.27	5.01	0	59.96	Peak	68.20	Pass
		5150.0	-54.81	-54.85	-51.82	5.01	0	45.41	Average	54.00	Pass
	48	5350.0	-48.90	-49.15	-46.01	5.01	0	51.22	Peak	68.20	Pass
		5350.0	-59.42	-59.43	-56.41	5.01	0	40.82	Average	54.00	Pass
		5460.0	-49.53	-48.93	-46.21	5.01	0	51.02	Peak	68.20	Pass
		5460.0	-59.66	-59.61	-56.62	5.01	0	40.61	Average	54.00	Pass
11N40	38	4500.0	-49.89	-49.51	-46.69	5.01	0	50.54	Peak	68.20	Pass
		4500.0	-59.77	-59.75	-56.75	5.01	0	40.48	Average	54.00	Pass
		5150.0	-41.31	-40.84	-38.06	5.01	0	59.17	Peak	68.20	Pass
		5150.0	-52.67	-52.62	-49.63	5.01	0	47.60	Average	54.00	Pass
	46	5350.0	-48.50	-48.84	-45.66	5.01	0	51.57	Peak	68.20	Pass
		5350.0	-58.59	-58.58	-55.57	5.01	0	41.66	Average	54.00	Pass
		5460.0	-49.18	-48.49	-45.81	5.01	0	51.42	Peak	68.20	Pass
		5460.0	-59.32	-59.30	-56.30	5.01	0	40.93	Average	54.00	Pass
11AC20	36	4500.0	-50.20	-50.34	-47.26	5.01	0	49.97	Peak	68.20	Pass
		4500.0	-59.80	-59.74	-56.76	5.01	0	40.47	Average	54.00	Pass
		5150.0	-42.08	-37.17	-35.95	5.01	0	61.28	Peak	68.20	Pass
		5150.0	-54.95	-54.56	-51.74	5.01	0	45.49	Average	54.00	Pass
	48	4500.0	-50.20	-50.34	-47.26	5.01	0	49.97	Peak	68.20	Pass
		4500.0	-59.80	-59.74	-56.76	5.01	0	40.47	Average	54.00	Pass
		5150.0	-42.08	-37.17	-35.95	5.01	0	61.28	Peak	68.20	Pass
		5150.0	-54.95	-54.56	-51.74	5.01	0	45.49	Average	54.00	Pass
11AC40	38	4500.0	-50.62	-50.23	-47.41	5.01	0	49.82	Peak	68.20	Pass
		4500.0	-59.80	-59.76	-56.77	5.01	0	40.46	Average	54.00	Pass
		5150.0	-42.02	-41.18	-38.57	5.01	0	58.66	Peak	68.20	Pass
		5150.0	-53.00	-52.68	-49.83	5.01	0	47.40	Average	54.00	Pass
	46	5350.0	-48.43	-47.32	-44.83	5.01	0	52.40	Peak	68.20	Pass
		5350.0	-58.62	-58.64	-55.62	5.01	0	41.61	Average	54.00	Pass
		5460.0	-48.69	-48.66	-45.66	5.01	0	51.57	Peak	68.20	Pass
		5460.0	-59.27	-59.28	-56.26	5.01	0	40.97	Average	54.00	Pass
11AC80	42	4500.0	-46.67	-47.49	-44.05	5.01	0	53.18	Peak	68.20	Pass
		5150.0	-57.06	-57.06	-54.05	5.01	0	43.18	Average	54.00	Pass
		4500.0	-48.40	-49.74	-46.01	5.01	0	51.22	Peak	68.20	Pass
		5150.0	-58.64	-58.67	-55.64	5.01	0	41.59	Average	54.00	Pass
		5350.0	-46.67	-47.49	-44.05	5.01	0	53.18	Peak	68.20	Pass
		5460.0	-57.06	-57.06	-54.05	5.01	0	43.18	Average	54.00	Pass
		5350.0	-48.40	-49.74	-46.01	5.01	0	51.22	Peak	68.20	Pass
		5460.0	-58.64	-58.67	-55.64	5.01	0	41.59	Average	54.00	Pass

E [dBuV/m]= Power [dBm] + Gain + Ground Factor + 95.23

The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater