

## Appendix G

### RF Test Data for 5.5G WLAN (Conducted Measurement)

Product Name: All-in-one Tablet  
Trade Mark: STRATATACHE/SCALA  
Test Model: ST156

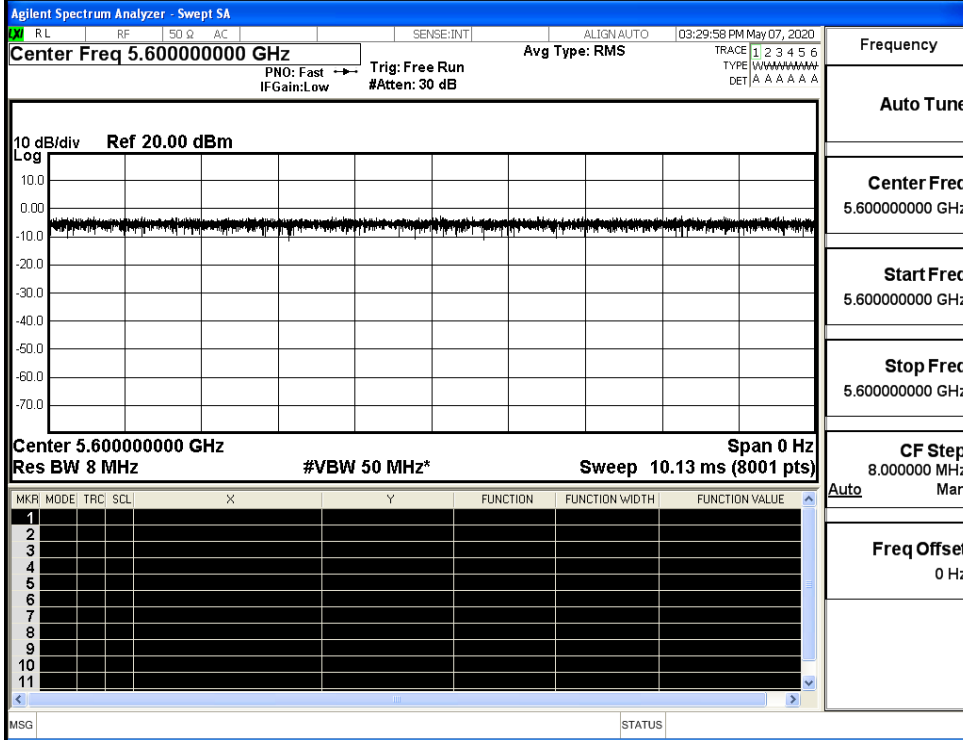
#### Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Tom.Liu

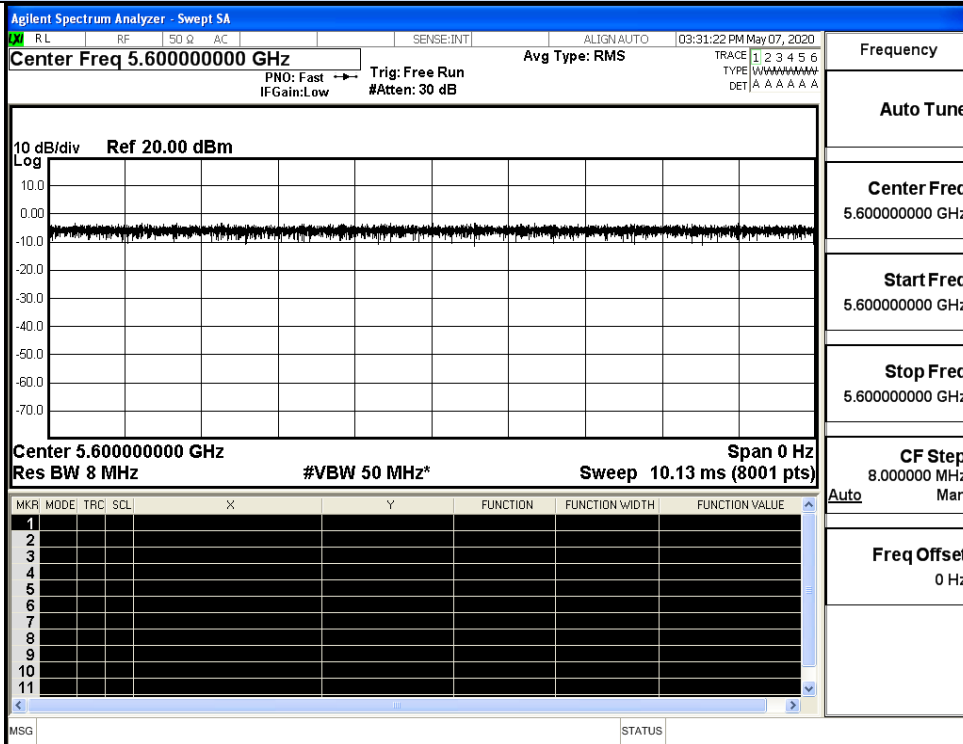
#### G.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5600	100	0.00	0.01
11N20 SISO	5600	100	0.00	0.01
11N40 SISO	5590	100	0.00	0.01
11AC20 SISO	5600	100	0.00	0.01
11AC40 SISO	5590	100	0.00	0.01
11AC80 SISO	5610	100	0.00	0.01

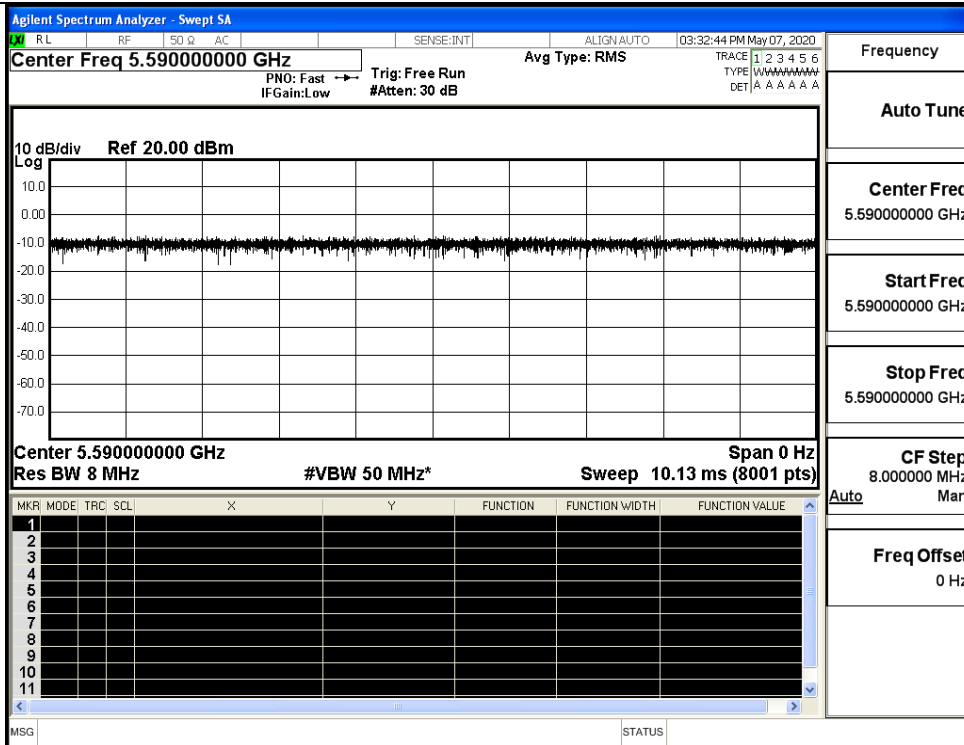
On Time and Duty Cycle



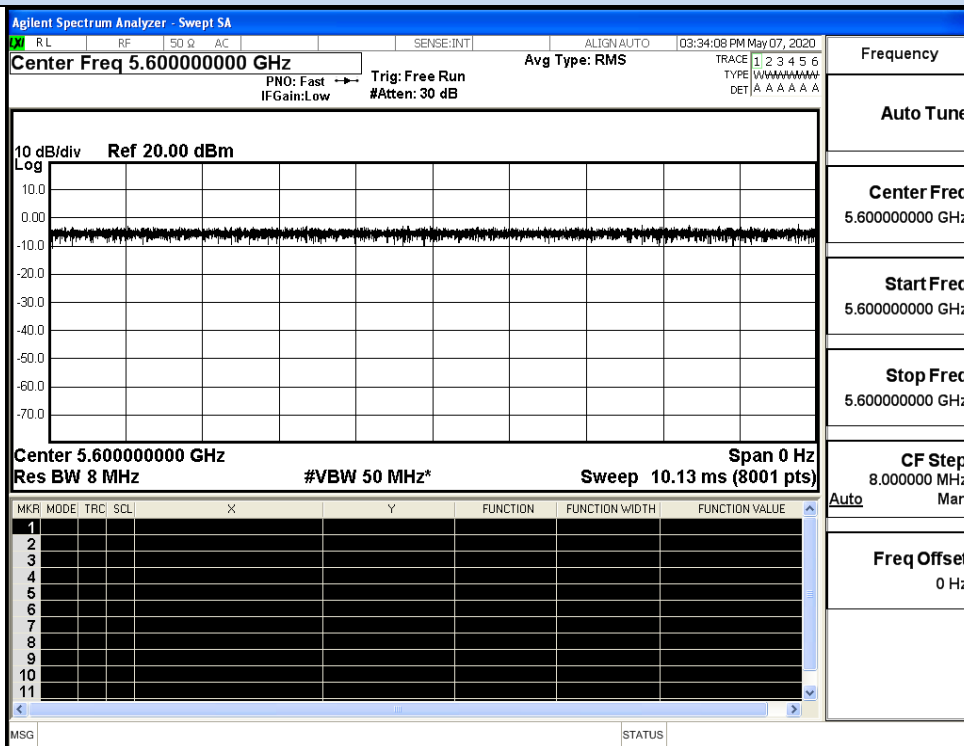
IEEE 802.11a



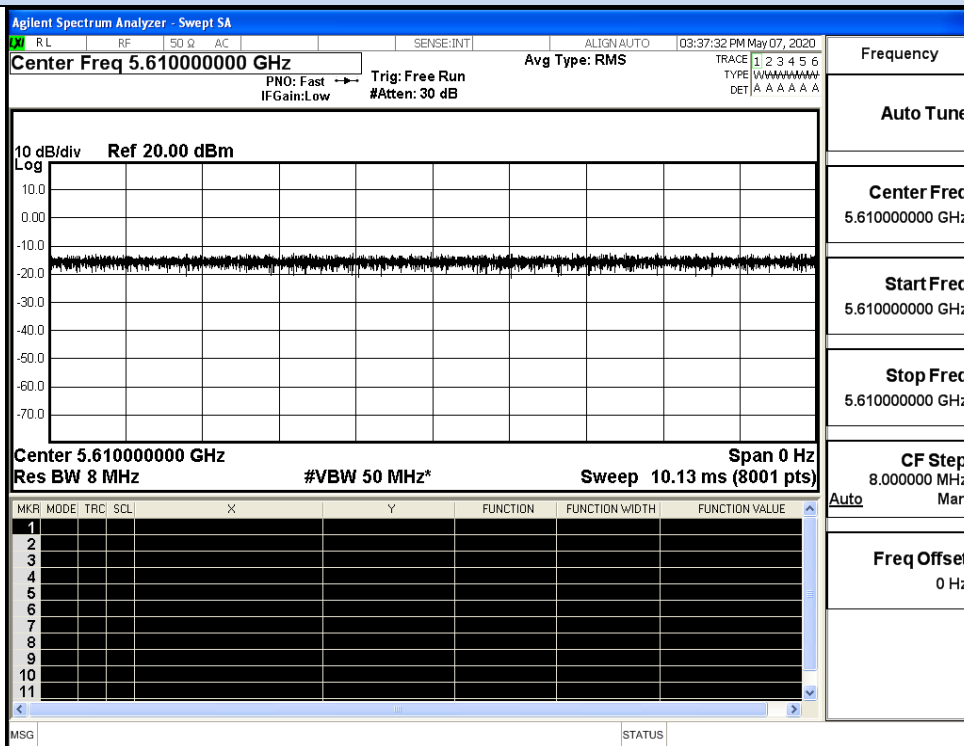
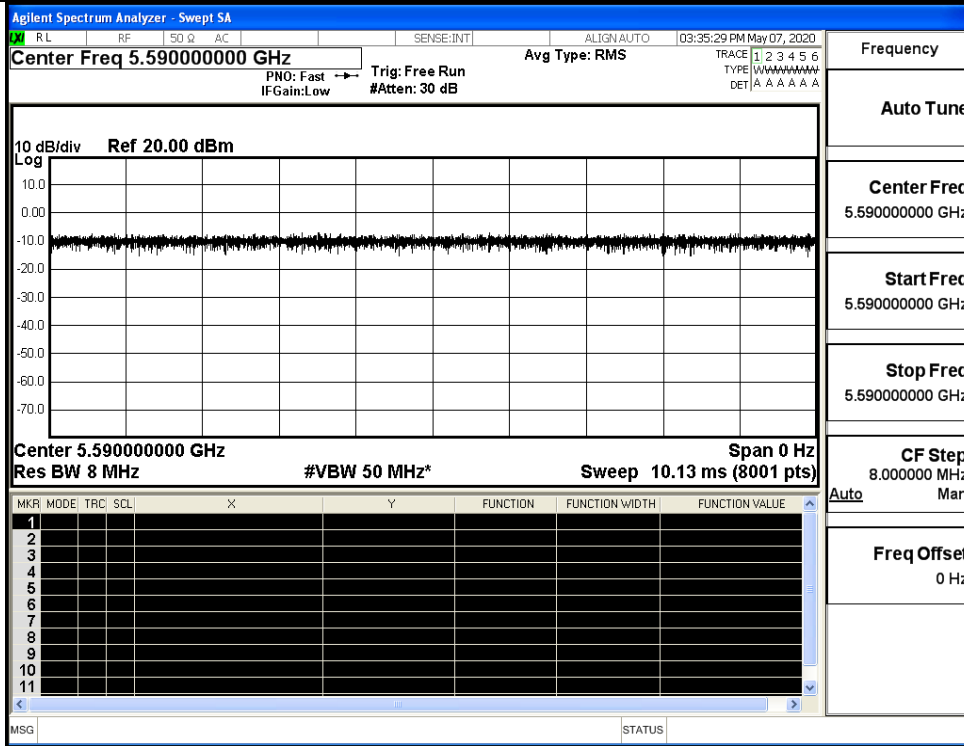
IEEE 802.11n HT20



IEEE 802.11n HT40



IEEE 802.11AC20

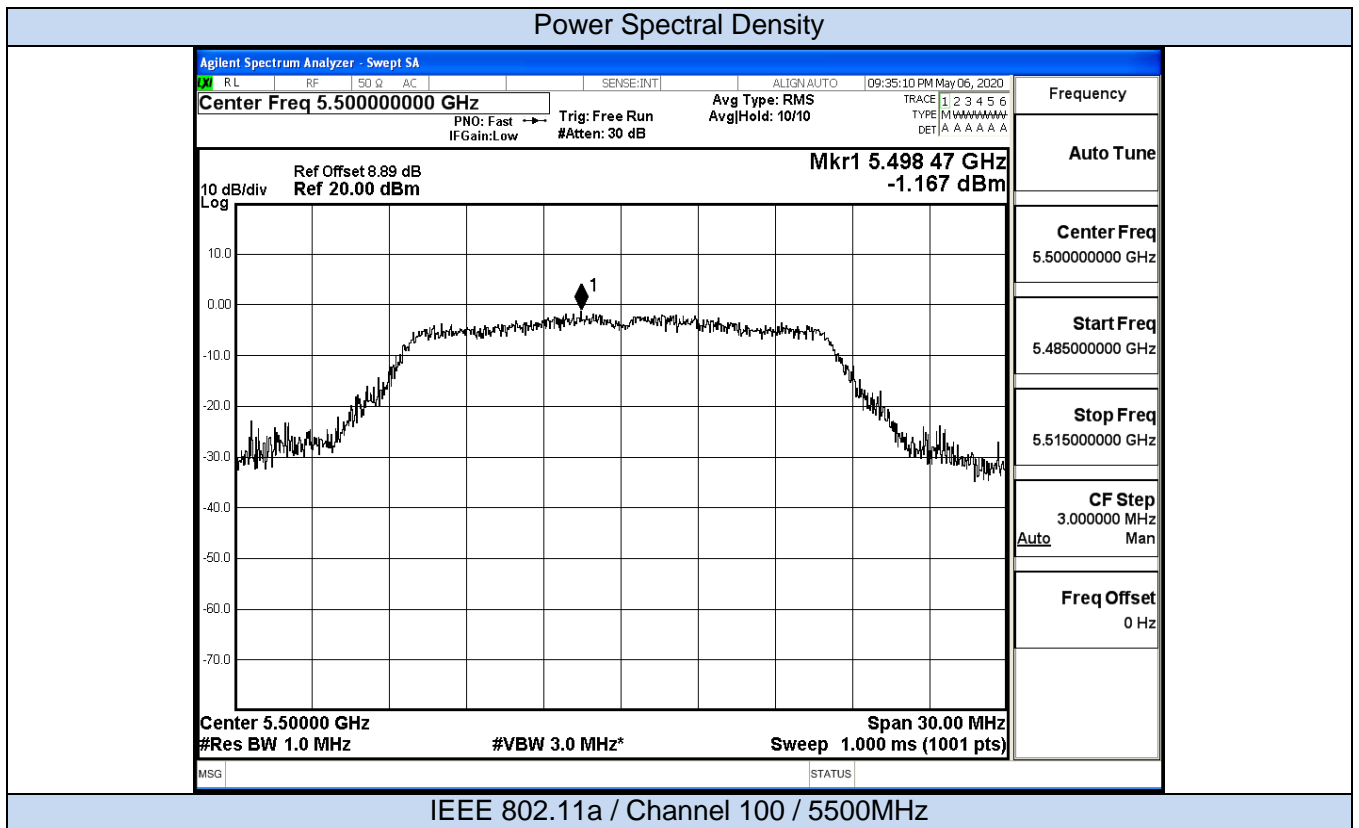


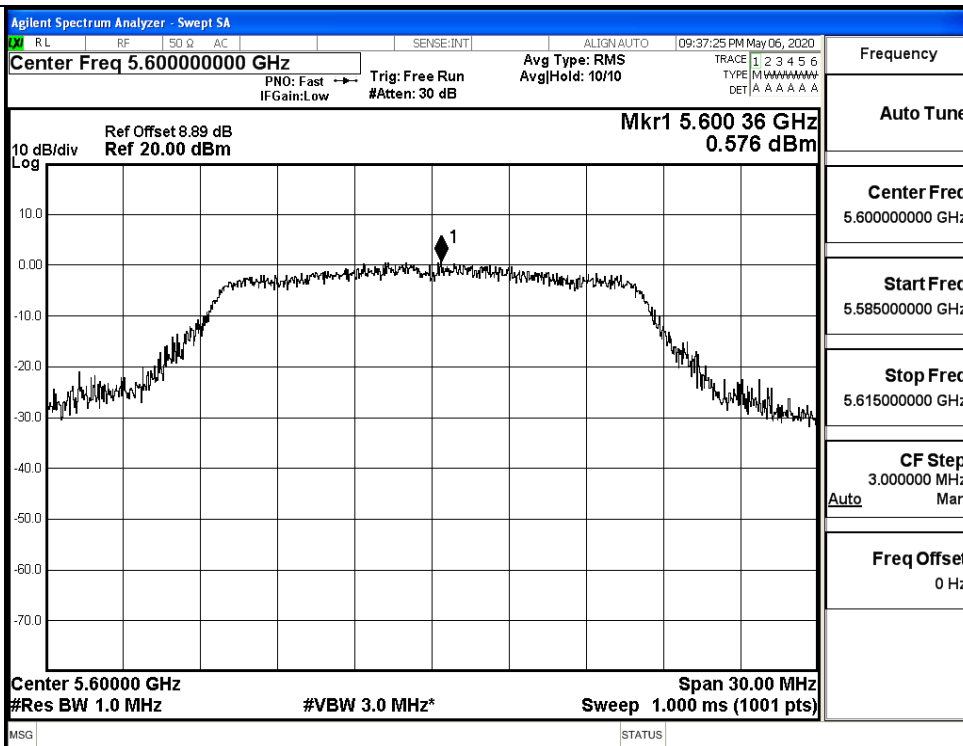
**G.2 Maximum Conduct Output Power**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	100	5500	8.38	0	8.38	24	Pass
	120	5600	10.46	0	10.46		Pass
	140	5700	7.8	0	7.8		Pass
11N20 SISO	100	5500	8.22	0	8.22	24	Pass
	120	5600	10.13	0	10.13		Pass
	140	5700	7.45	0	7.45		Pass
11N40 SISO	149	5510	8.53	0	8.53	24	Pass
	157	5590	10.35	0	10.35		Pass
	165	5670	8.29	0	8.29		Pass
11ac20 SISO	100	5500	8.38	0	8.38	24	Pass
	120	5600	10	0	10		Pass
	140	5700	7.62	0	7.62		Pass
11ac40 SISO	149	5510	8.73	0	8.73	24	Pass
	157	5590	10.34	0	10.34		Pass
	165	5670	8.37	0	8.37		Pass
11ac80 SISO	106	5530	9.93	0	9.93	24	Pass
	122	5610	9.78	0	9.78		Pass
	138	5690	8.37	0	8.37		Pass

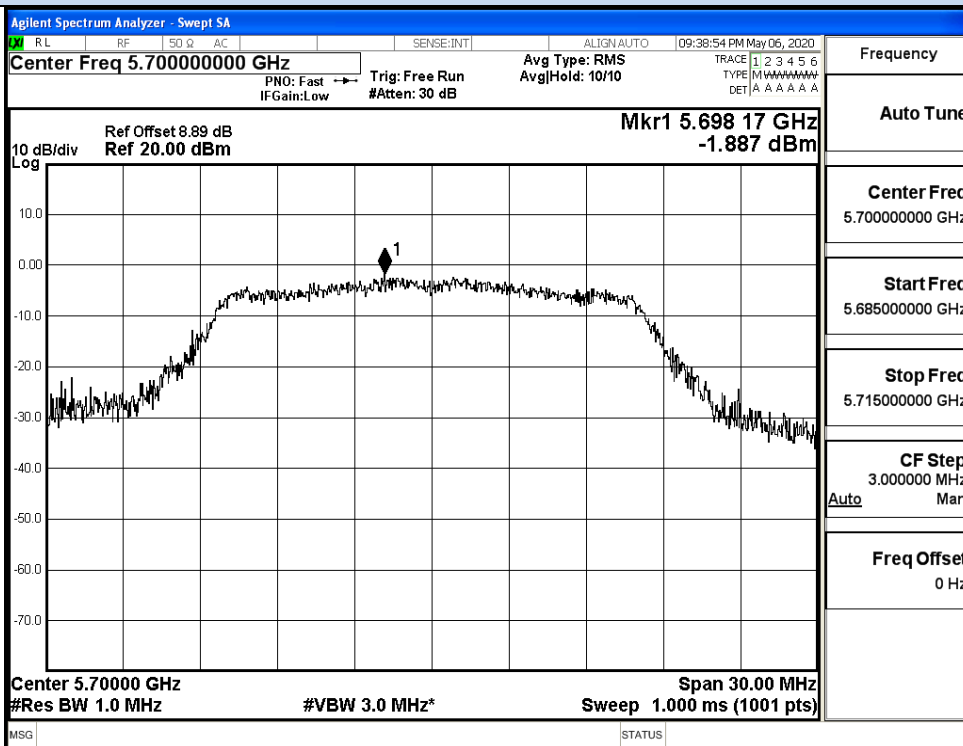
### G.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	100	5500	-1.17	0	-1.17	11	Pass
	120	5600	0.58	0	0.58		Pass
	140	5700	-1.89	0	-1.89		Pass
11N20 SISO	100	5500	-1.74	0	-1.74	11	Pass
	120	5600	0.02	0	0.02		Pass
	140	5700	-2.74	0	-2.74		Pass
11N40 SISO	102	5510	-4.55	0	-4.55	11	Pass
	118	5590	-2.00	0	-2.00		Pass
	134	5670	-4.79	0	-4.79		Pass
11AC20 SISO	100	5500	-2.03	0	-2.03	11	Pass
	120	5600	-0.10	0	-0.10		Pass
	140	5700	-2.14	0	-2.14		Pass
11AC40 SISO	102	5510	-4.59	0	-4.59	11	Pass
	118	5590	-2.40	0	-2.40		Pass
	134	5670	-4.27	0	-4.27		Pass
11AC80 SISO	106	5530	-6.61	0	-6.61	11	Pass
	122	5610	-5.25	0	-5.25		Pass
	138	5690	-7.04	0	-7.04		Pass



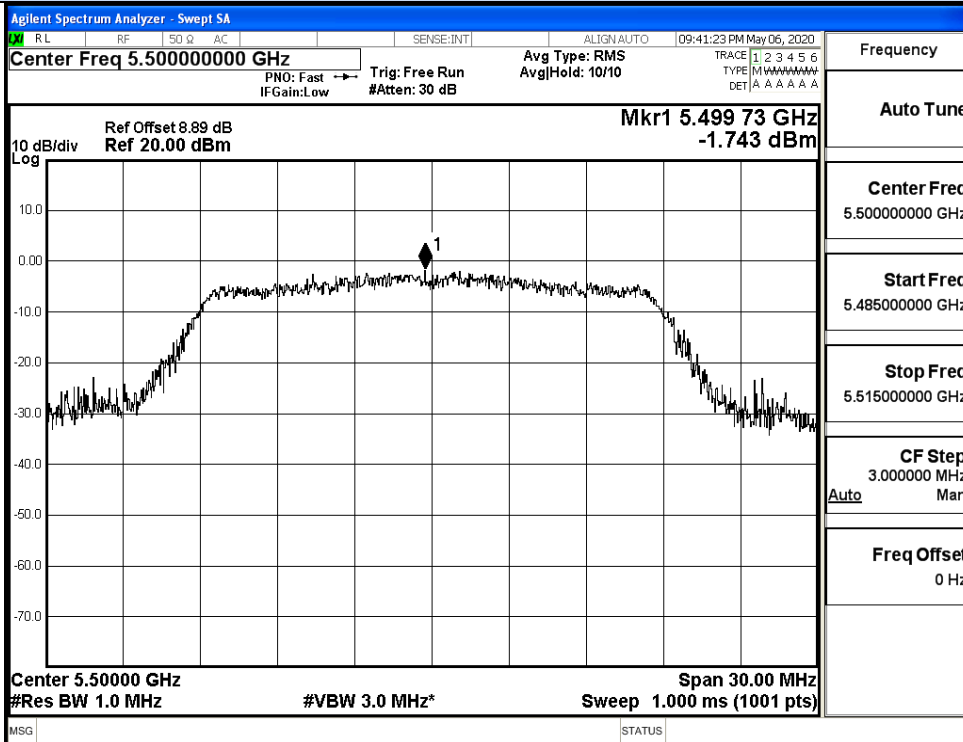


IEEE 802.11a / Channel 120 / 5600MHz

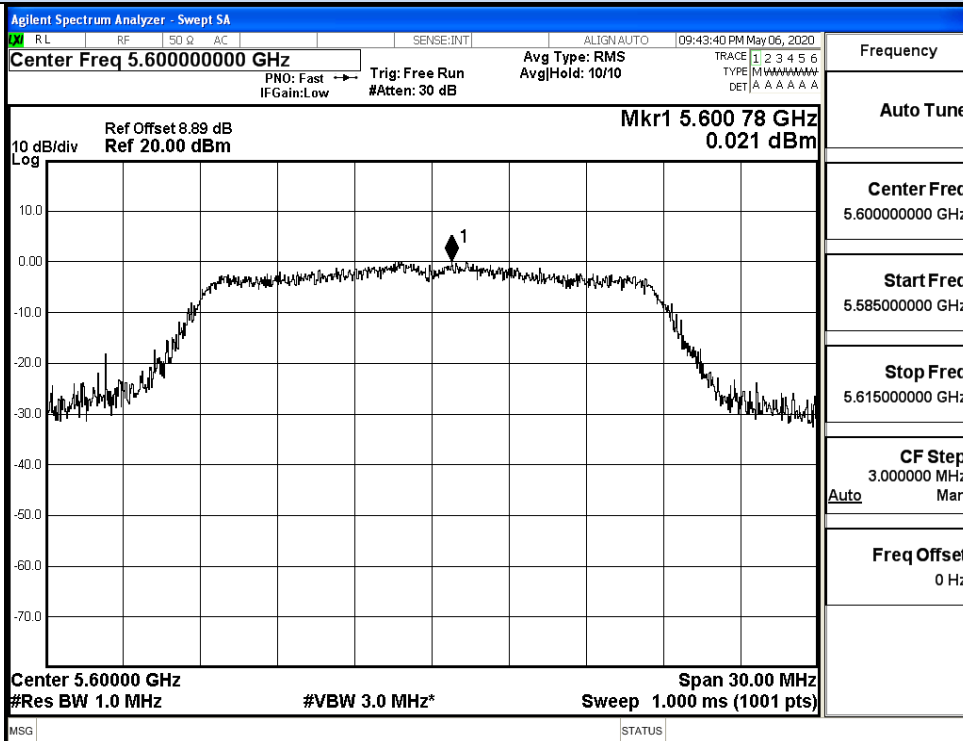


IEEE 802.11a / Channel 140 / 5700MHz

Power Spectral Density

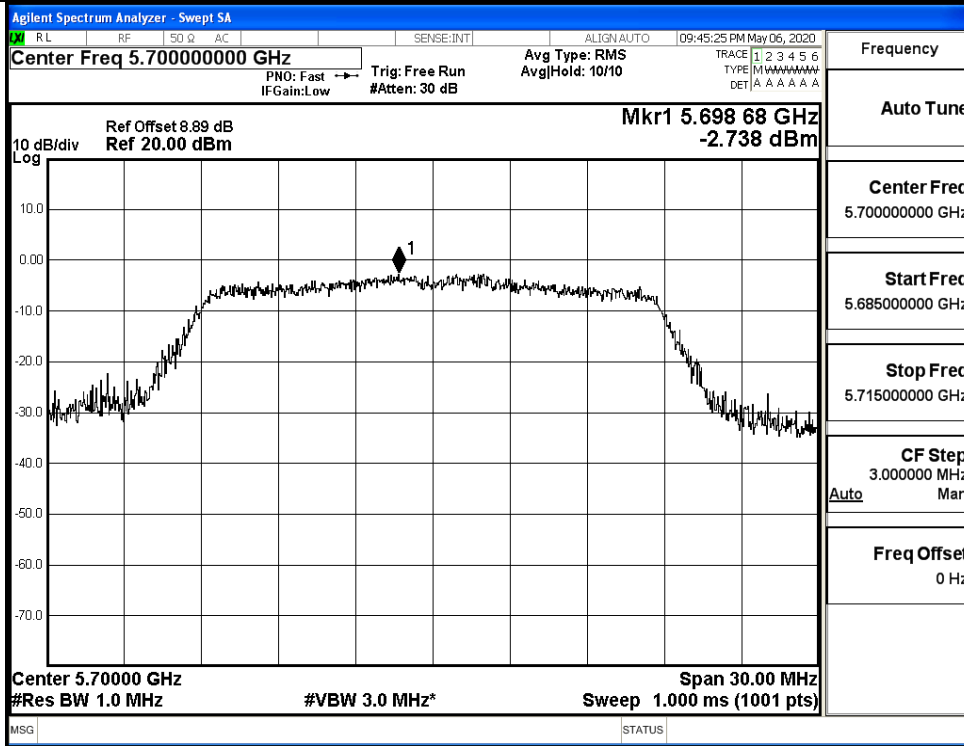


IEEE 802.11n20 / Channel 100 / 5500MHz

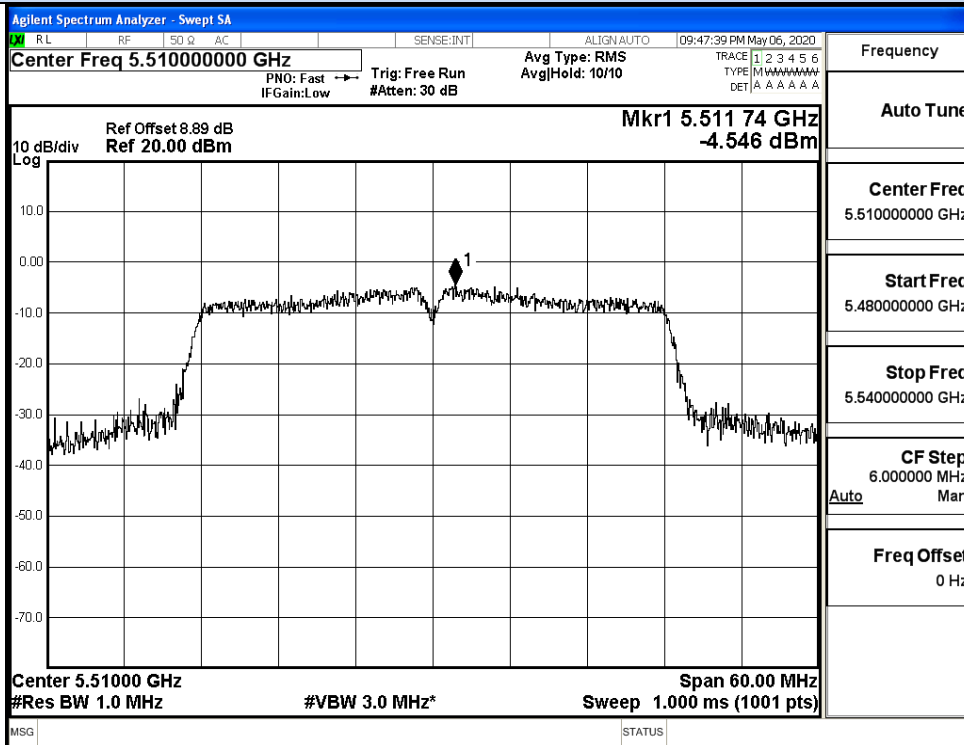


IEEE 802.11n20 / Channel 120 / 5600MHz

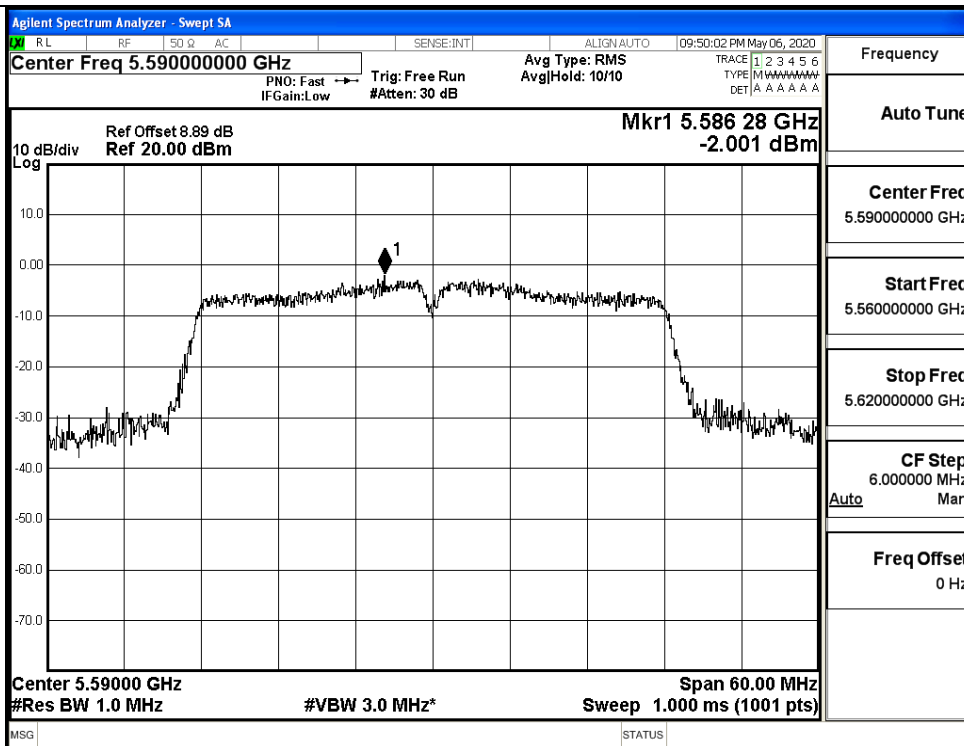




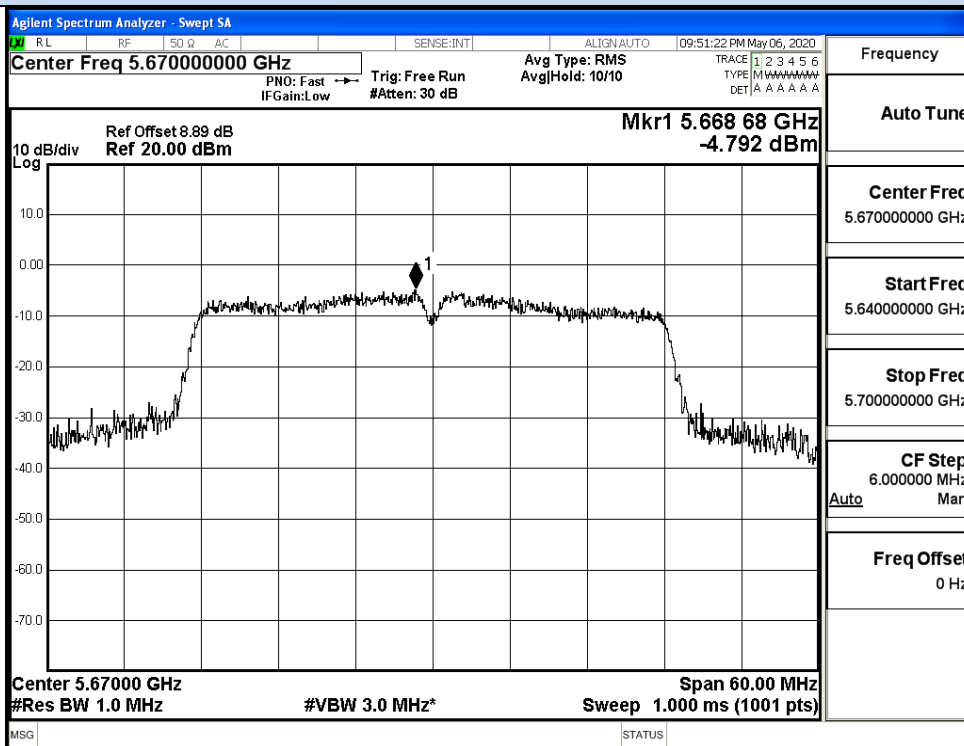
IEEE 802.11n20 / Channel 140 / 5700MHz



IEEE 802.11n40 / Channel 102 / 5510MHz

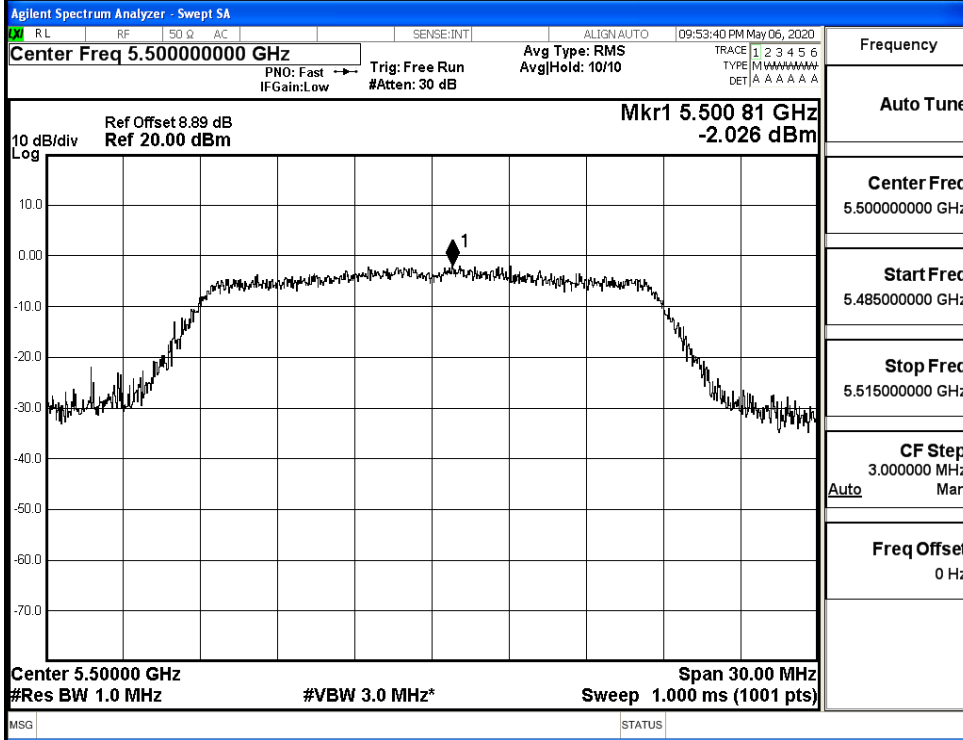


IEEE 802.11n40 / Channel 118 / 5590MHz

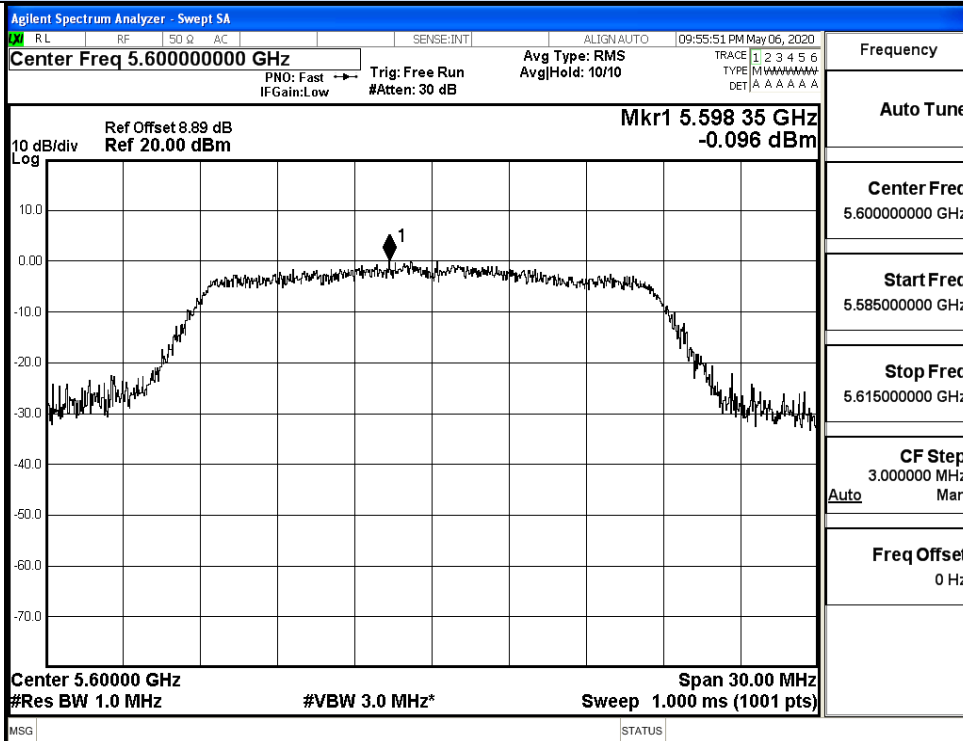


IEEE 802.11n40 / Channel 134 / 5670MHz

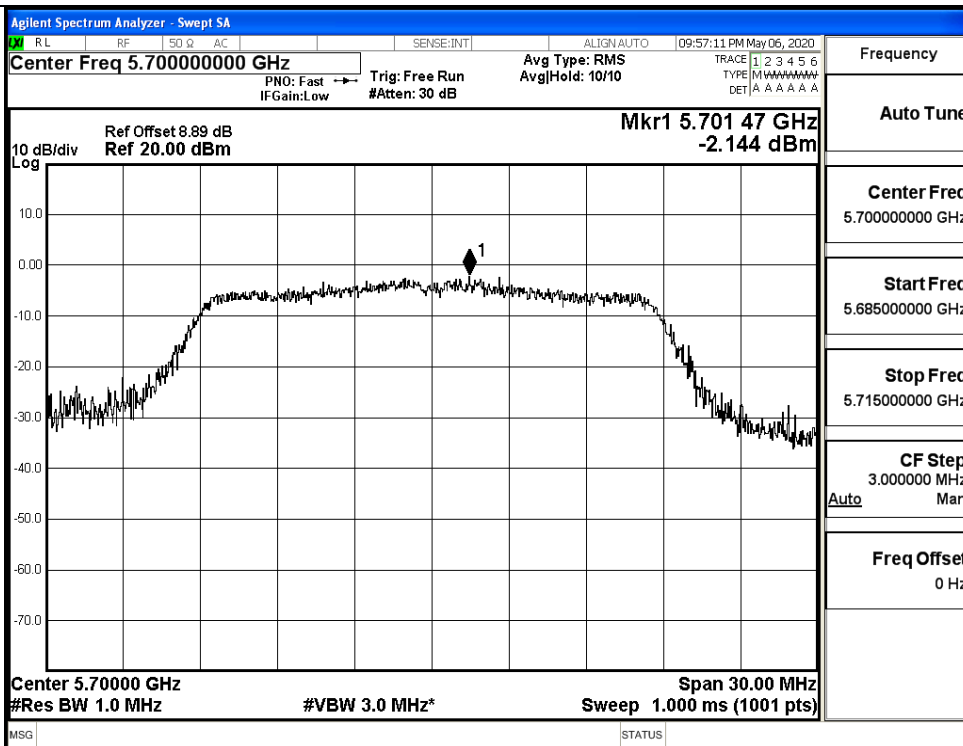
### Power Spectral Density



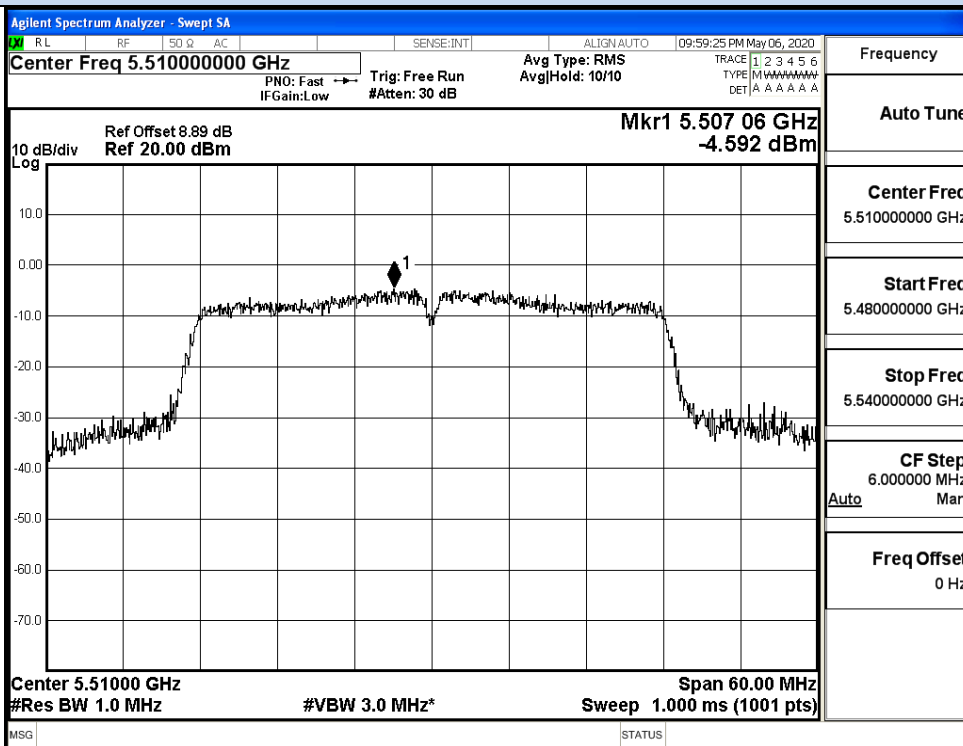
### IEEE 802.11ac20 / Channel 100 / 5500MHz



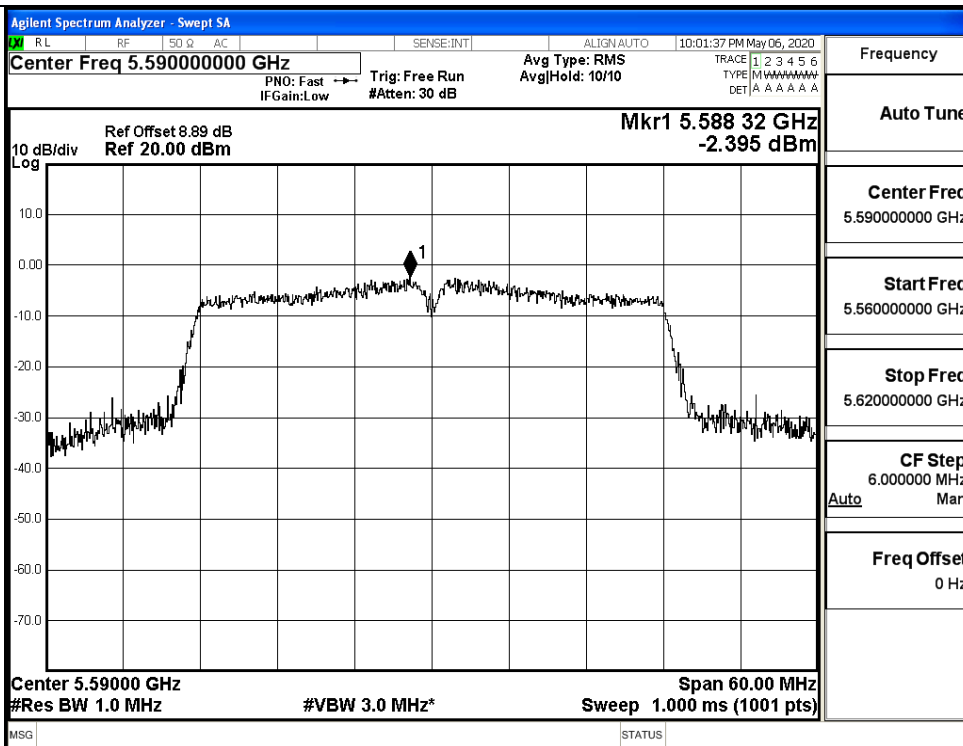
### IEEE 802.11ac20 / Channel 120 / 5600MHz



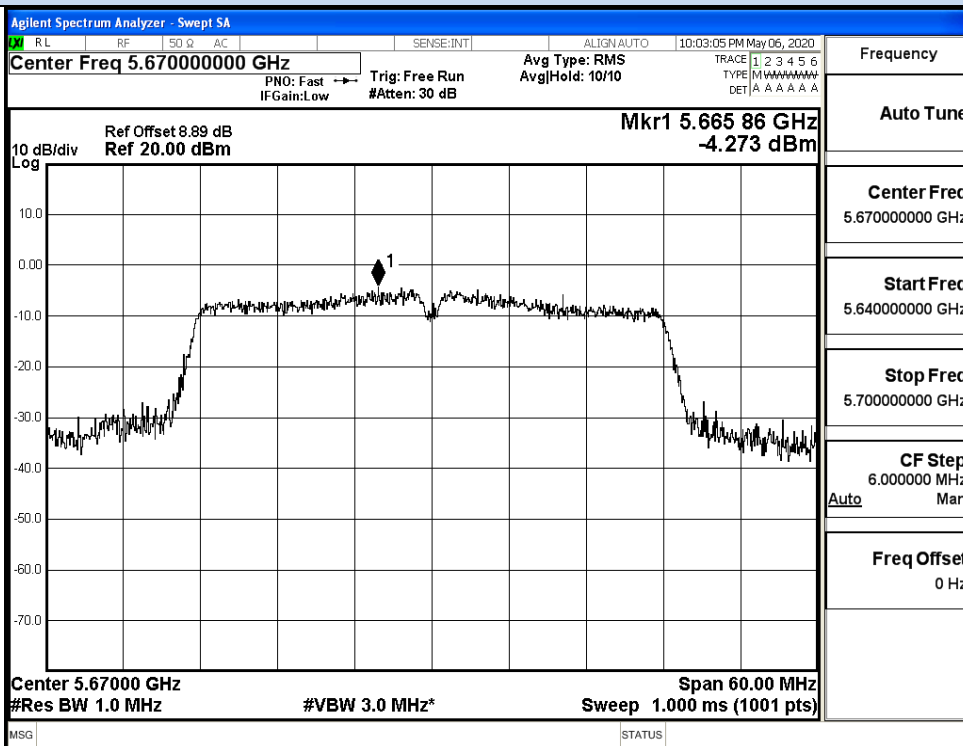
IEEE 802.11ac20 / Channel 140 / 5700MHz



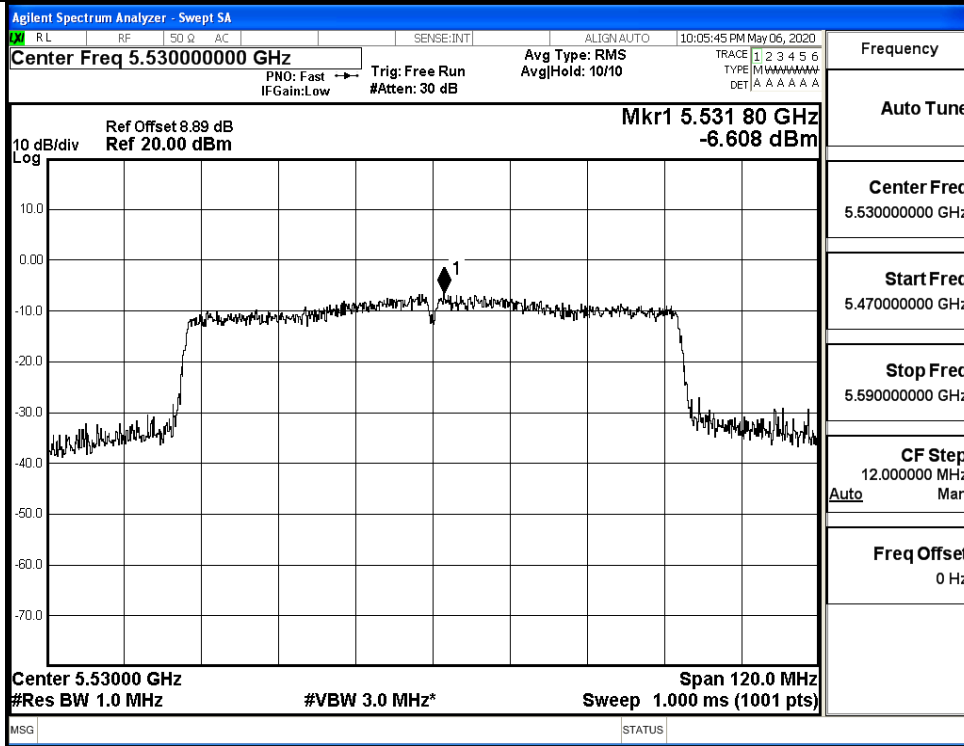
IEEE 802.11ac40 / Channel 102 / 5510MHz



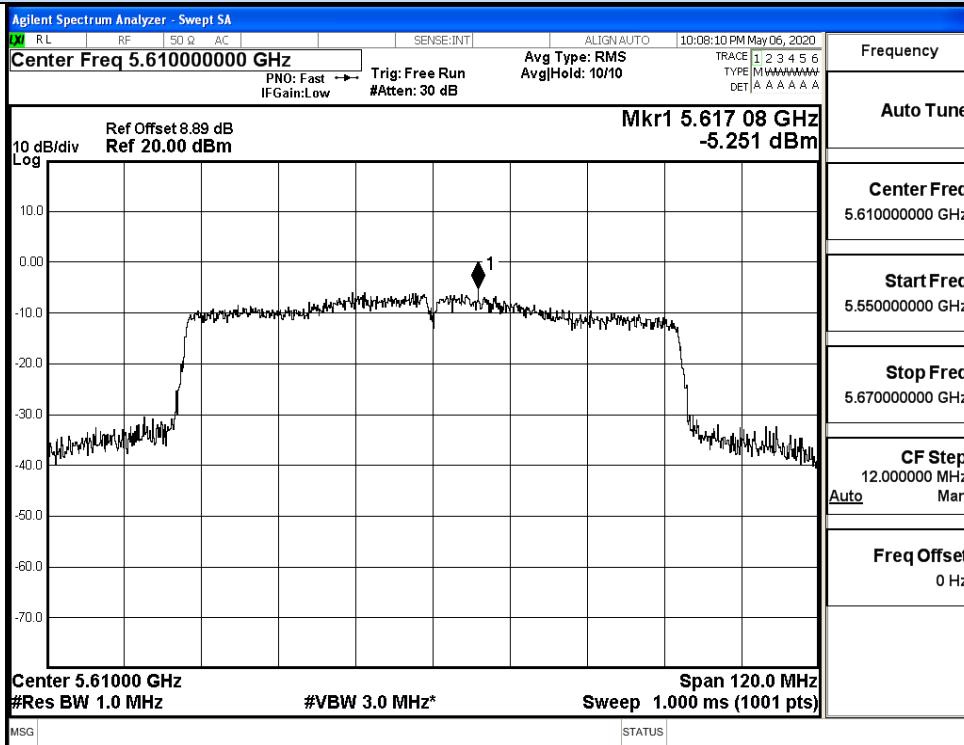
IEEE 802.11ac40 / Channel 118 / 5590MHz



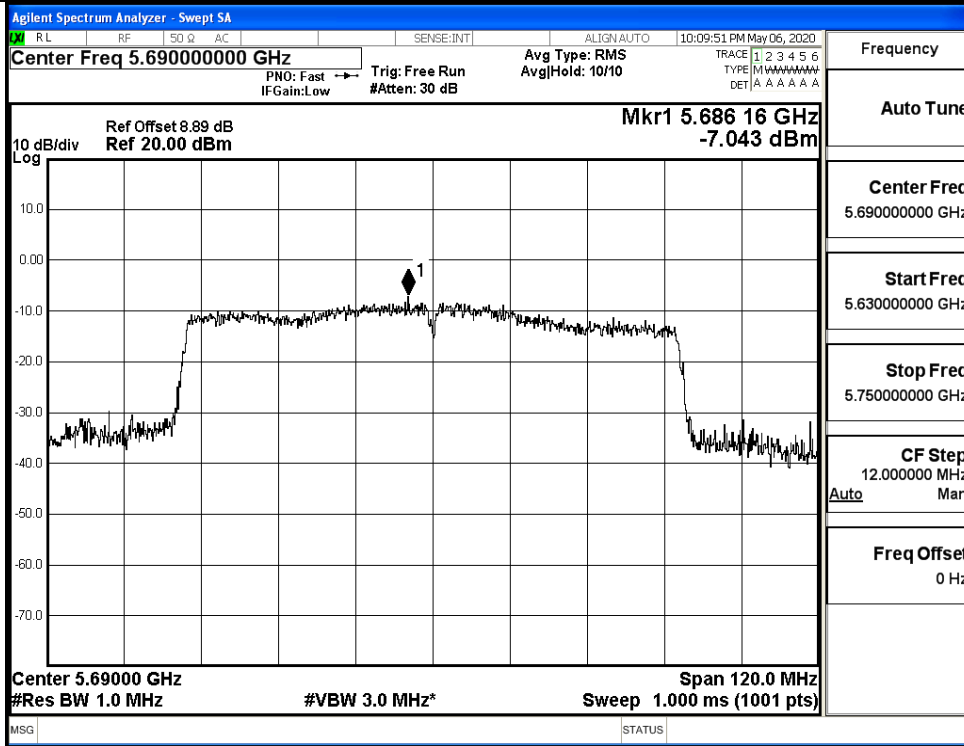
IEEE 802.11ac40 / Channel 134 / 5670MHz



IEEE 802.11ac80 / Channel 106 / 5530MHz



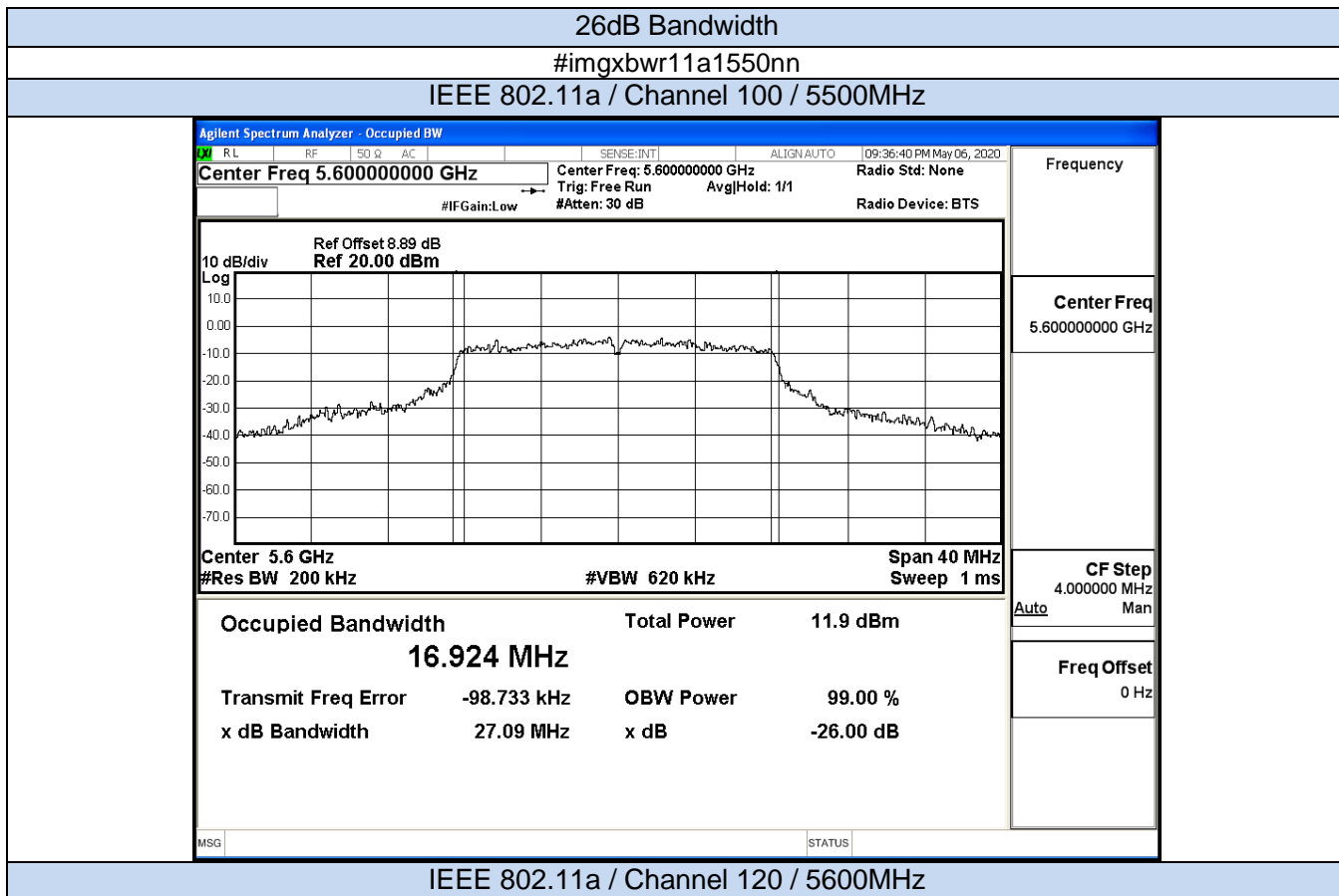
IEEE 802.11ac80 / Channel 122 / 5610MHz



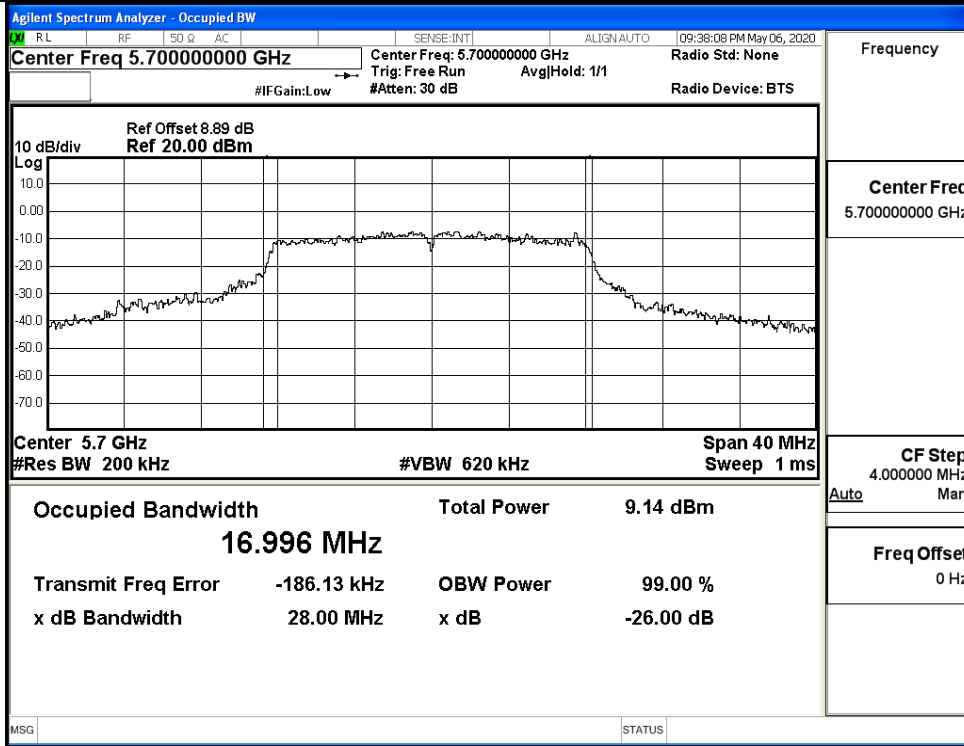
IEEE 802.11ac80 / Channel 138 / 5690MHz

**G.4 Emission Bandwidth**

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	100	5500	26.26	No Limit	Pass
	120	5600	27.09		Pass
	140	5700	28.00		Pass
11N20 SISO	100	5500	24.68	No Limit	Pass
	120	5600	24.87		Pass
	140	5700	26.06		Pass
11N40 SISO	102	5510	51.51	No Limit	Pass
	118	5590	52.32		Pass
	134	5670	51.29		Pass
11AC20 SISO	100	5500	24.61	No Limit	Pass
	120	5600	25.31		Pass
	140	5700	24.28		Pass
11AC40 SISO	102	5510	53.65	No Limit	Pass
	118	5590	51.12		Pass
	134	5670	47.35		Pass
11AC80 SISO	106	5530	122.0	No Limit	Pass
	122	5610	108.1		Pass
	138	5690	130.3		Pass

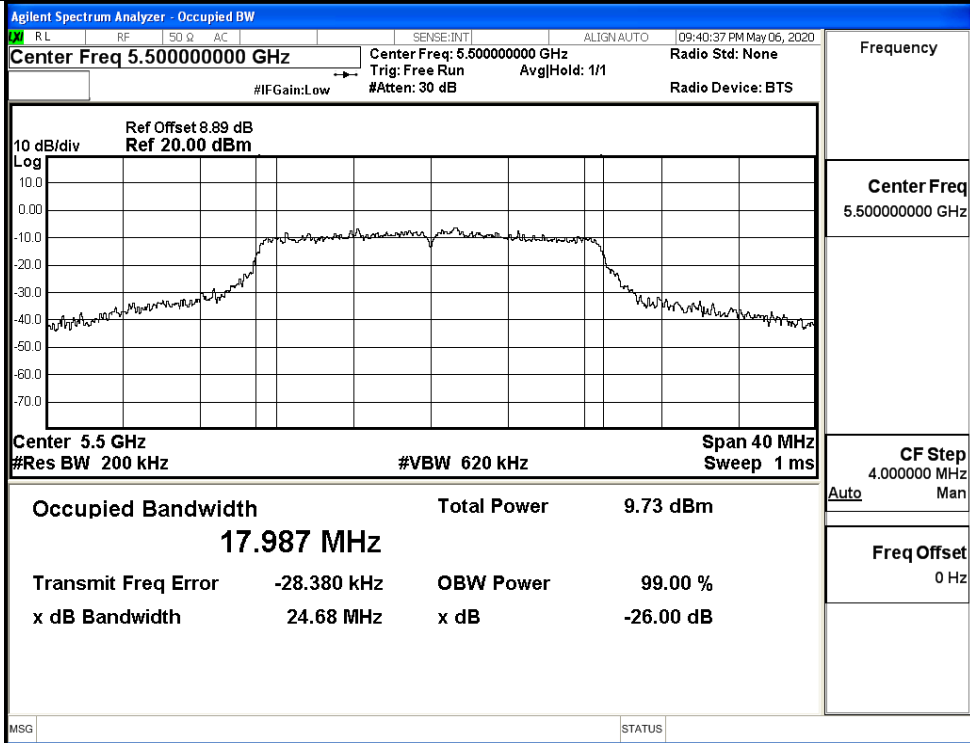




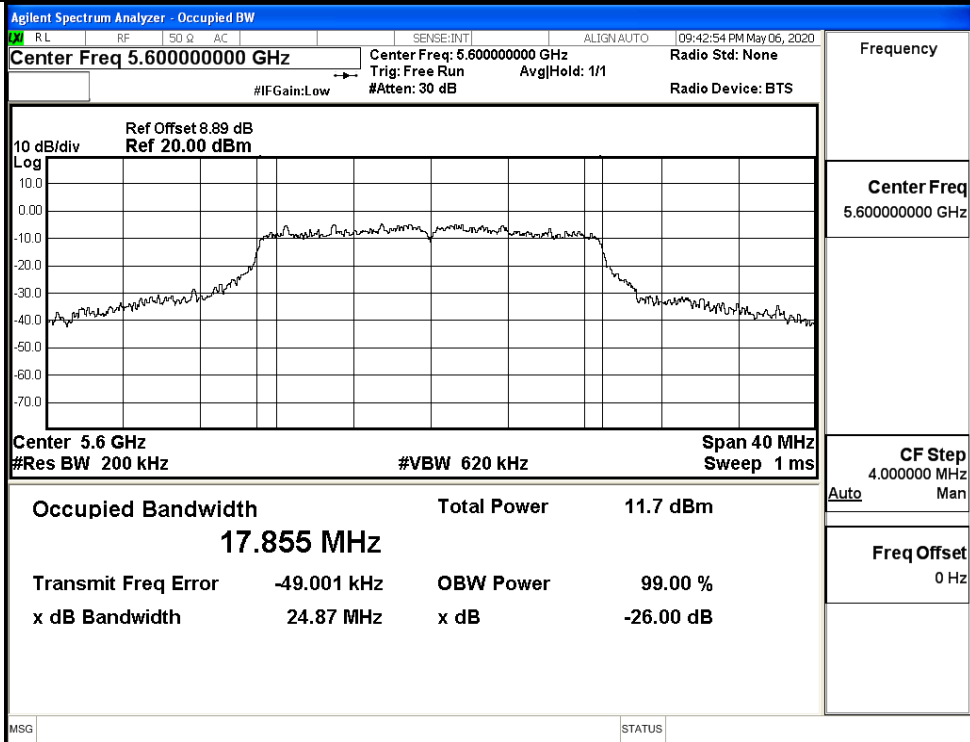


IEEE 802.11a / Channel 140 / 5700MHz

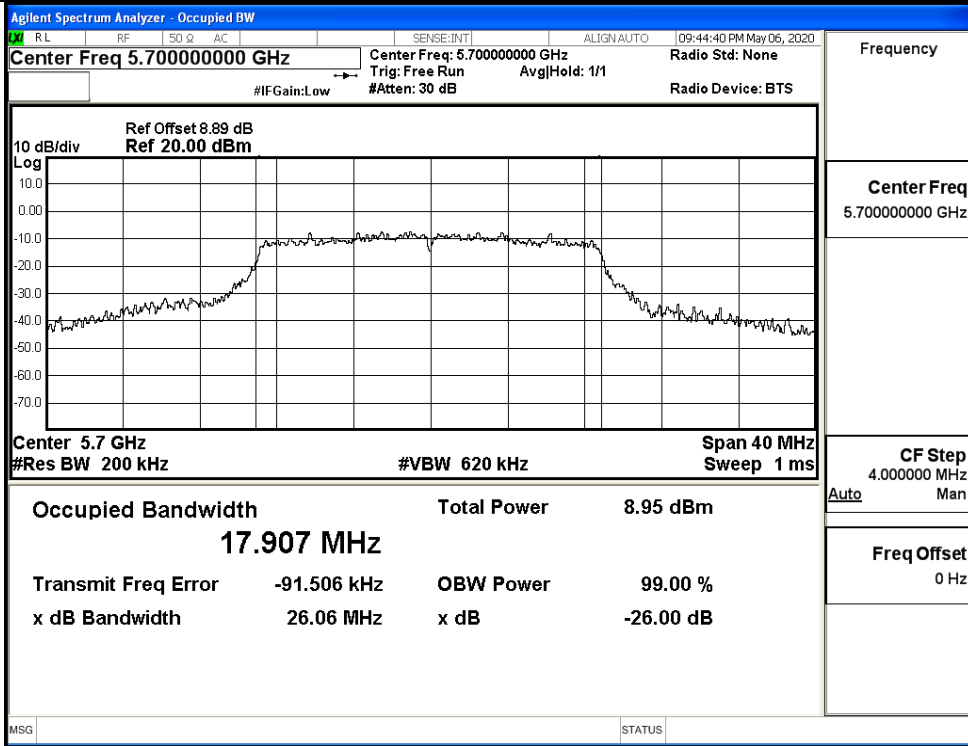
26dB Bandwidth



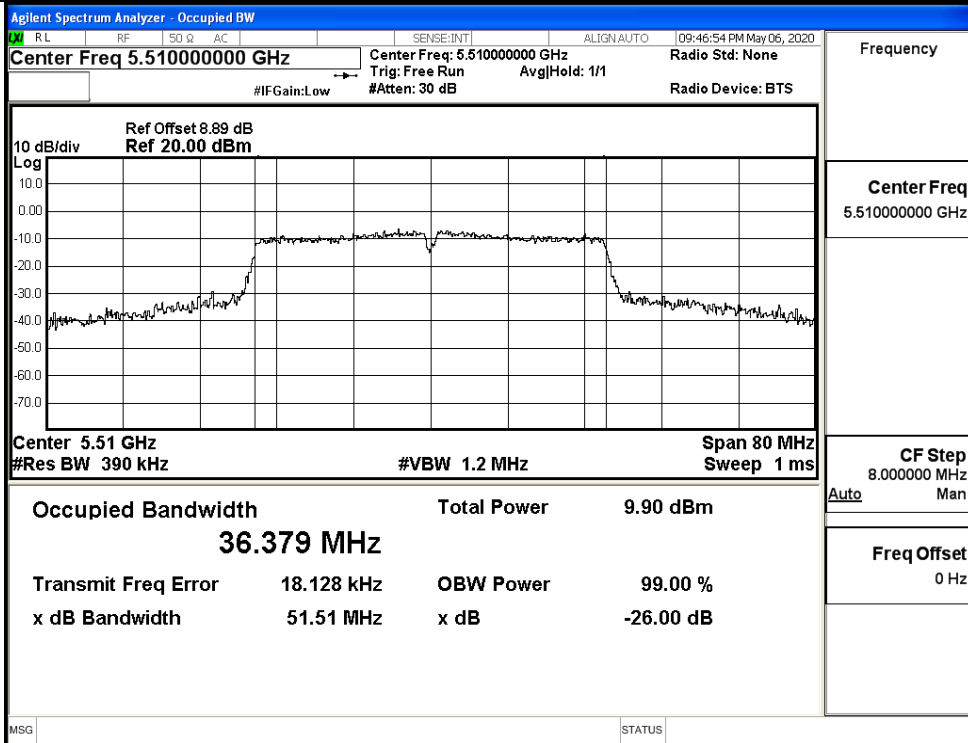
IEEE 802.11n20 / Channel 100 / 5500MHz



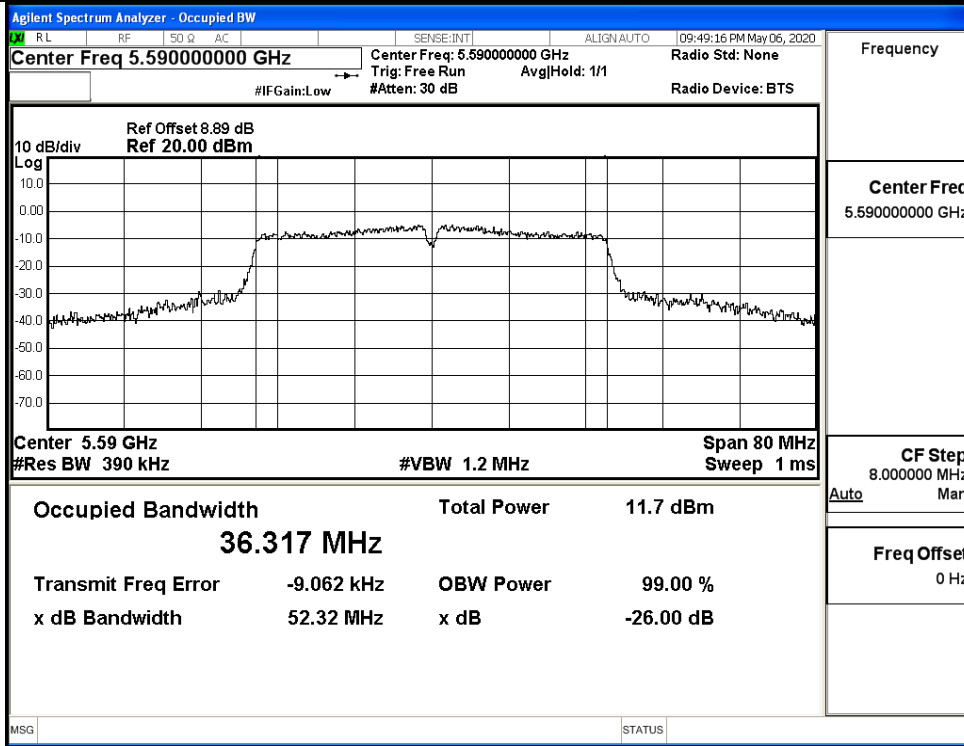
IEEE 802.11n20 / Channel 120 / 5600MHz



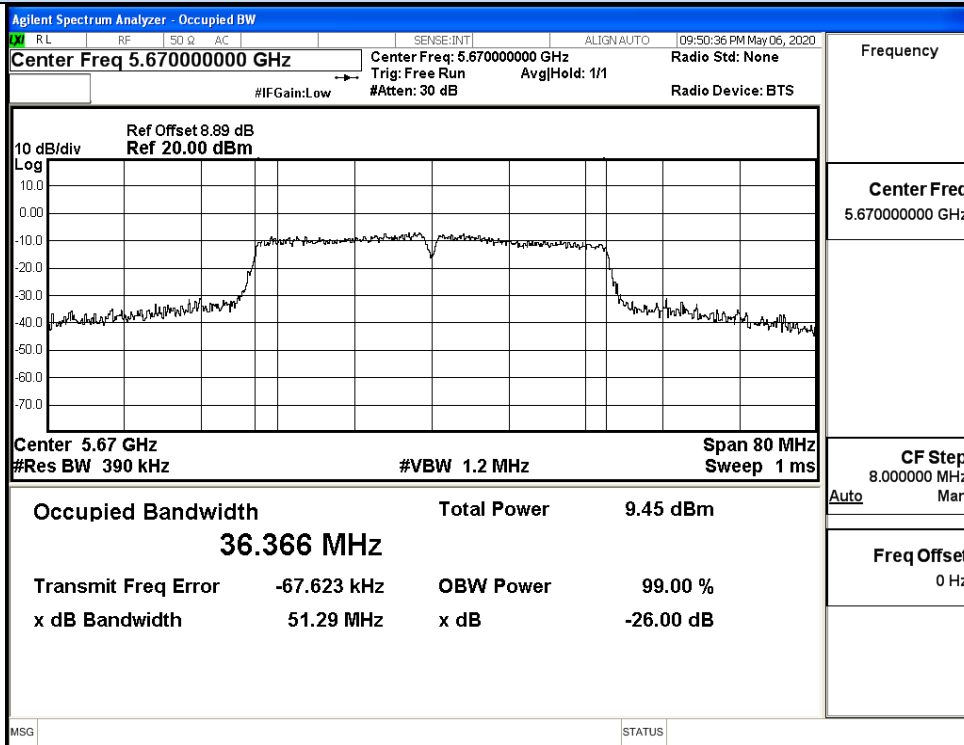
IEEE 802.11n20 / Channel 140 / 5700MHz



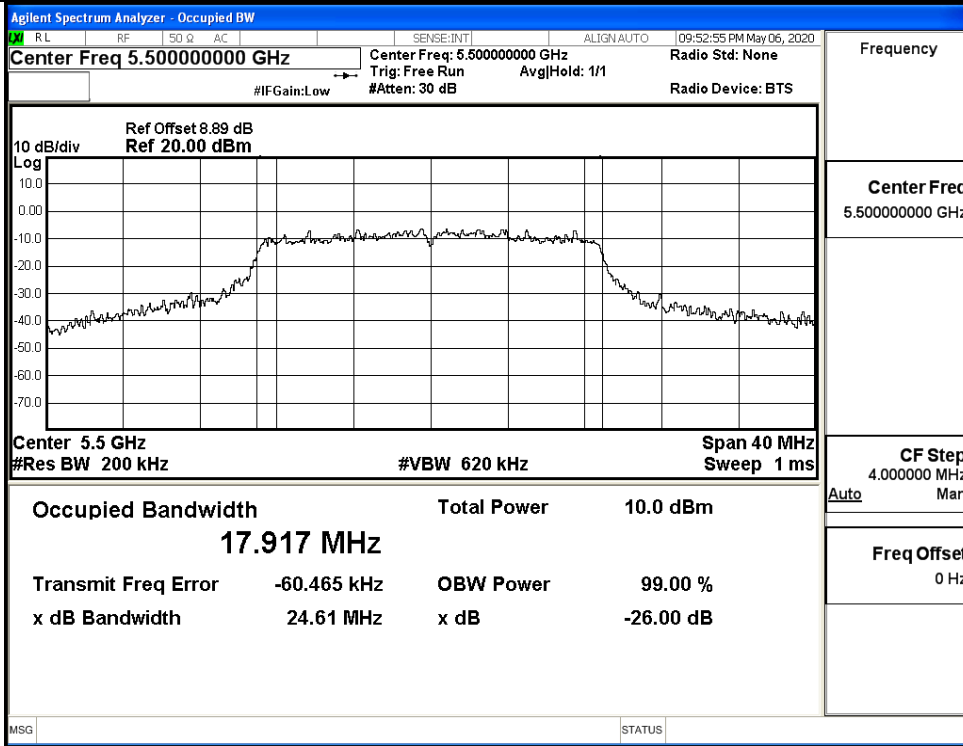
IEEE 802.11n40 / Channel 102 / 5510MHz



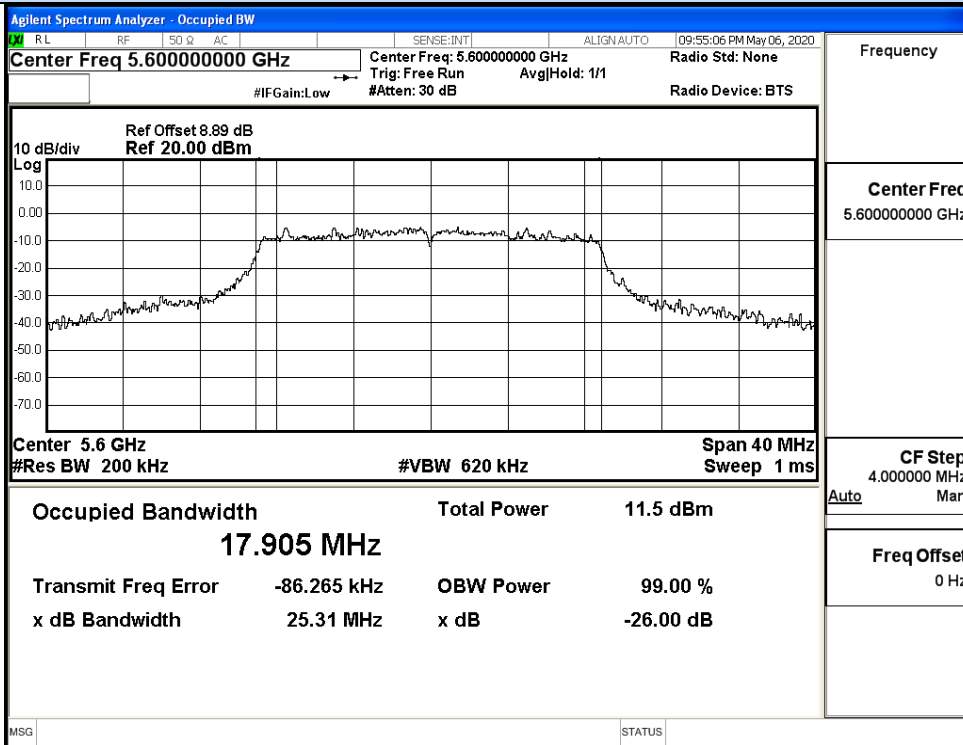
IEEE 802.11n40 / Channel 118 / 5590MHz



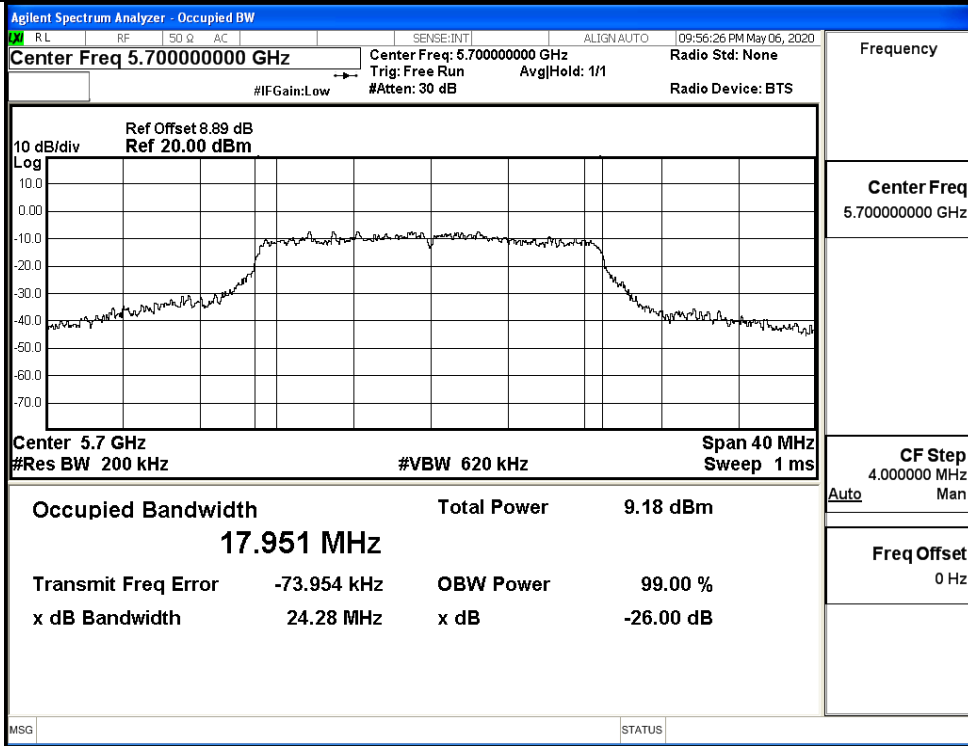
IEEE 802.11n40 / Channel 134 / 5670MHz



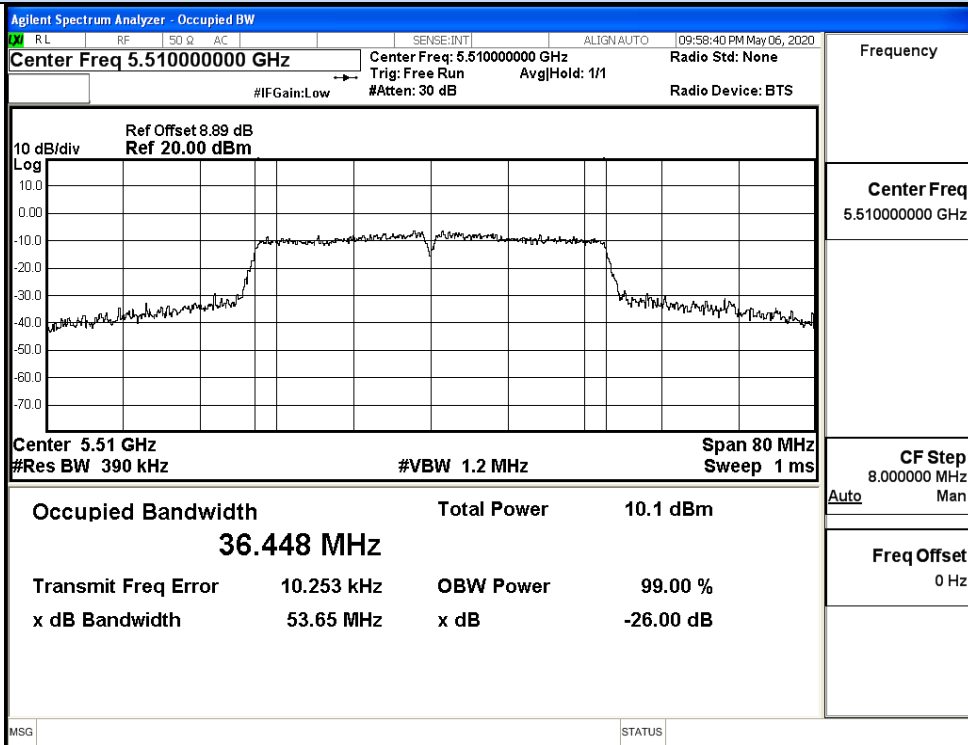
IEEE 802.11ac20 / Channel 100 / 5500MHz



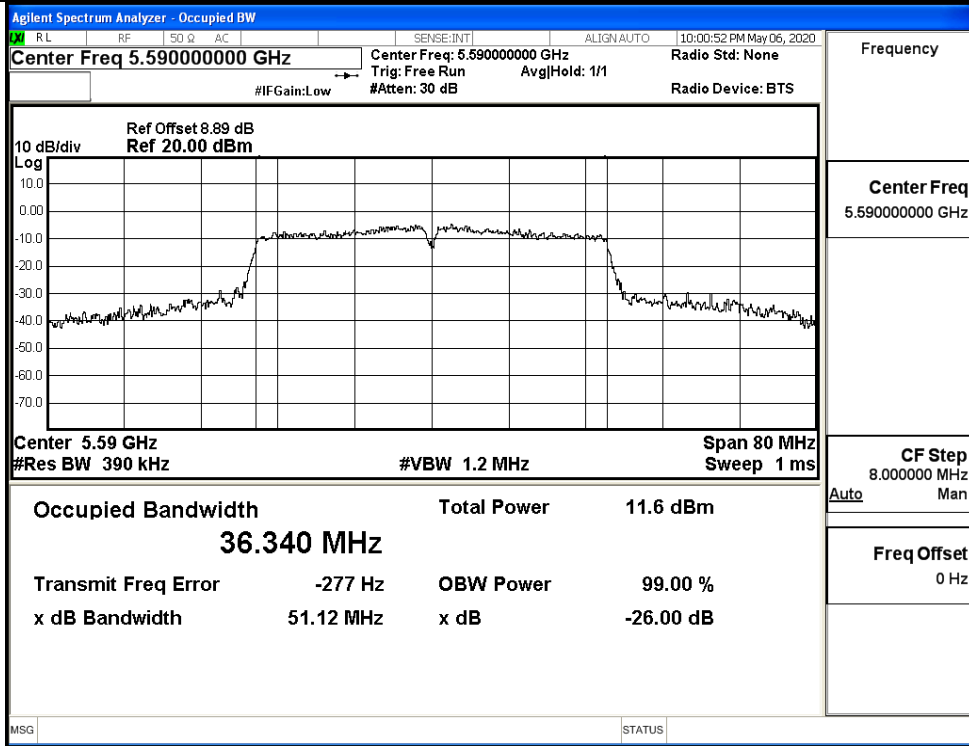
IEEE 802.11ac20 / Channel 120 / 5600MHz



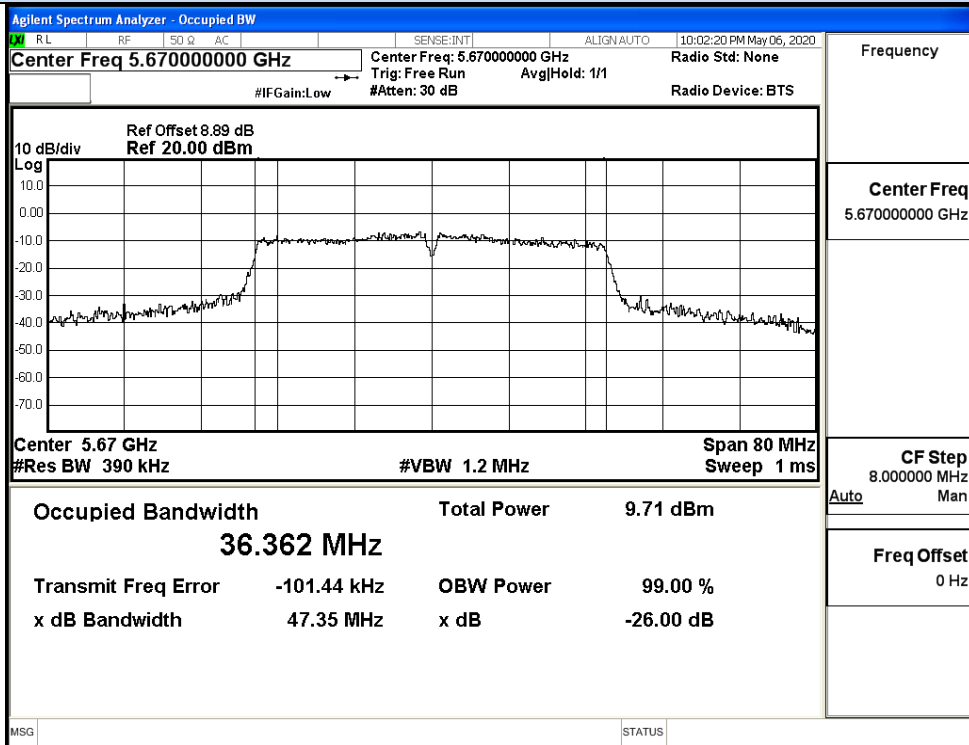
IEEE 802.11ac20 / Channel 140 / 5700MHz



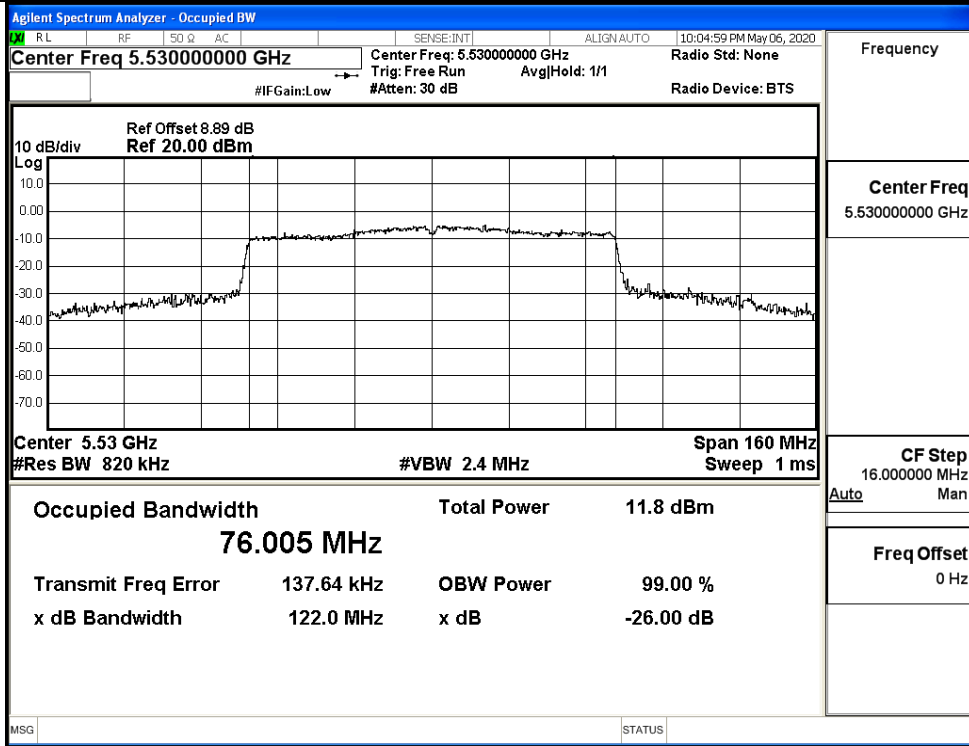
IEEE 802.11ac40 / Channel 102 / 5510MHz



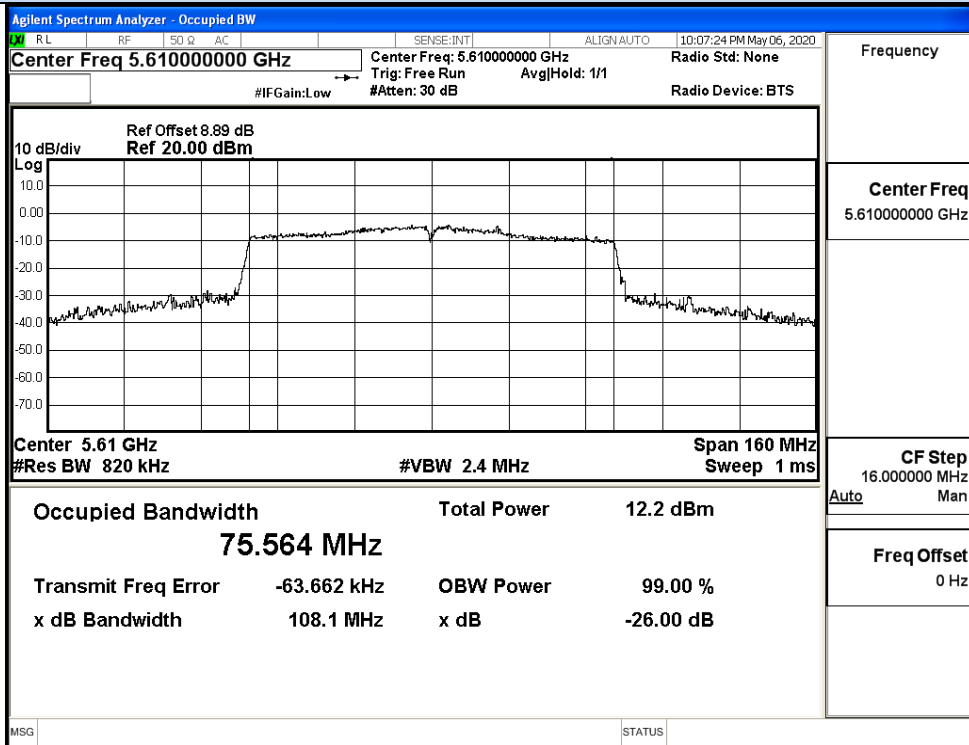
IEEE 802.11ac40 / Channel 118 / 5590MHz



IEEE 802.11ac40 / Channel 134 / 5670MHz

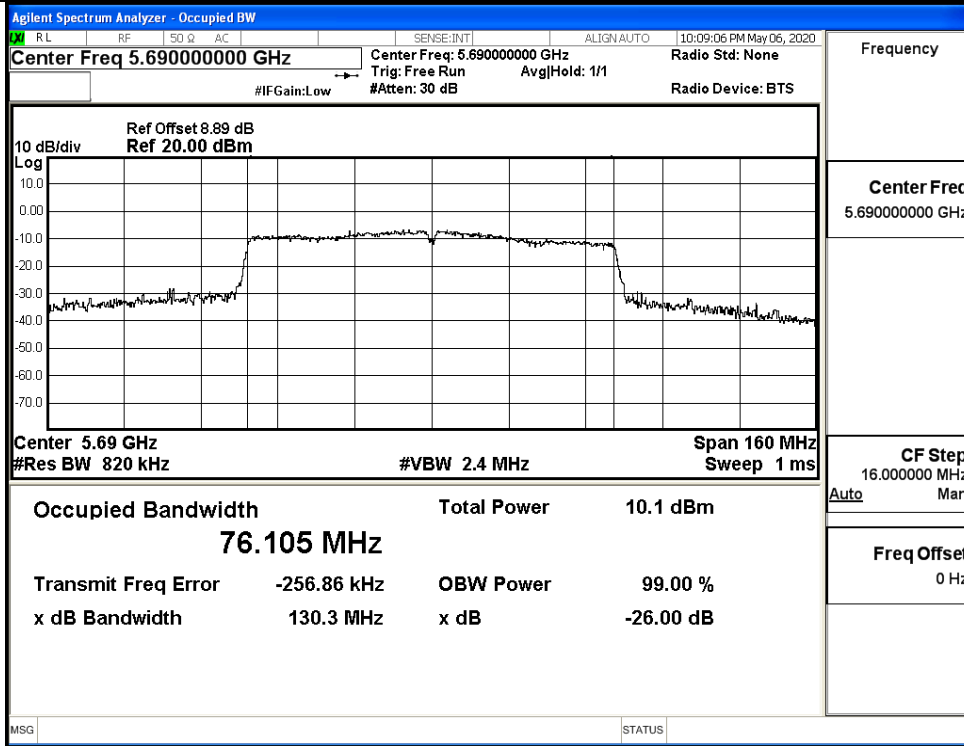


IEEE 802.11ac80 / Channel 106 / 5530MHz



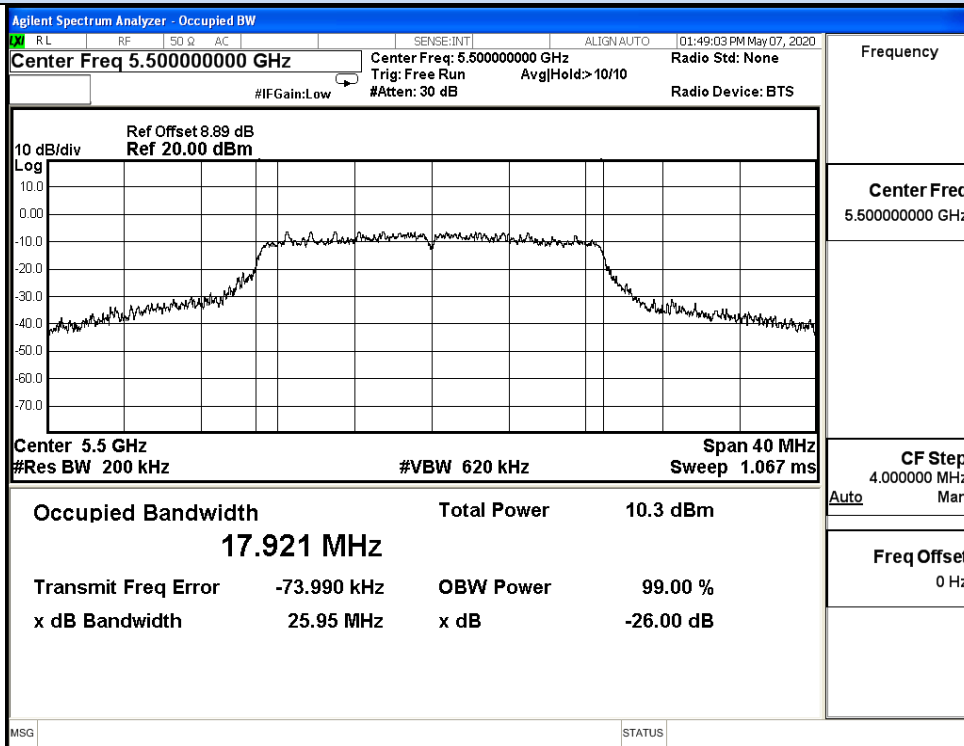
IEEE 802.11ac80 / Channel 122 / 5610MHz



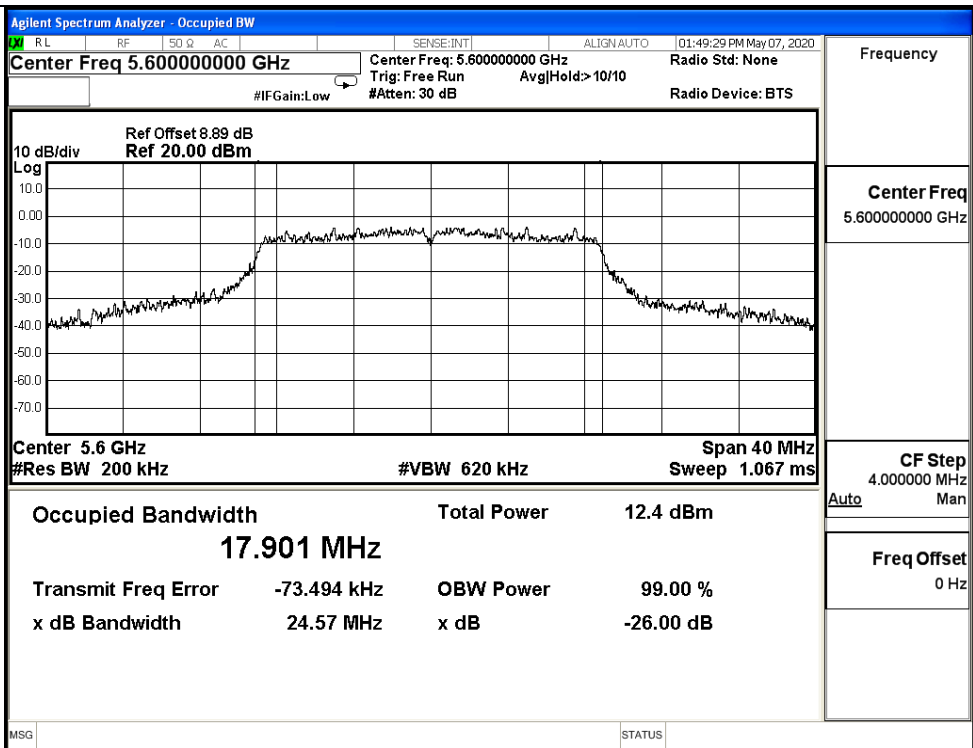


IEEE 802.11ac80 / Channel 138 / 5690MHz

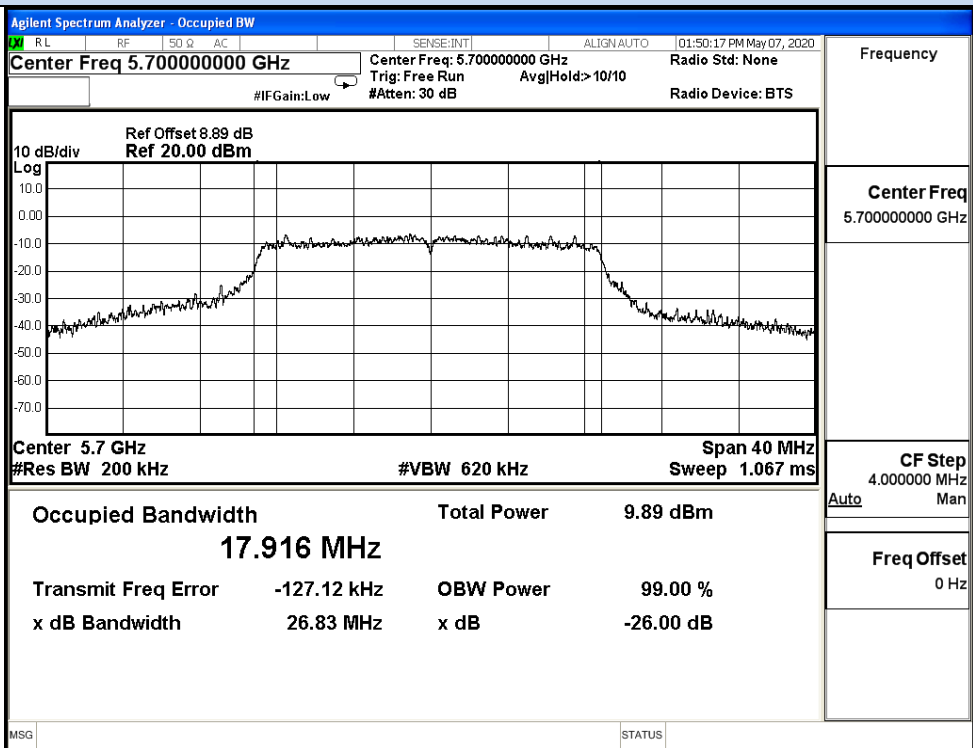
99% Occupied Bandwidth



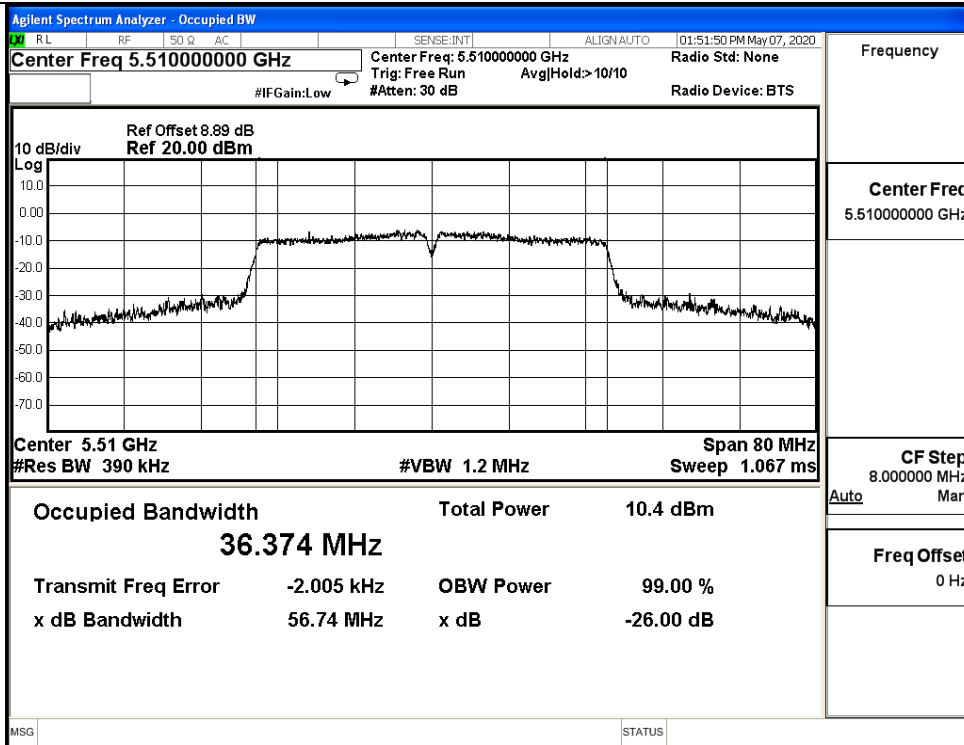
IEEE 802.11n20 / Channel 100 / 5500MHz



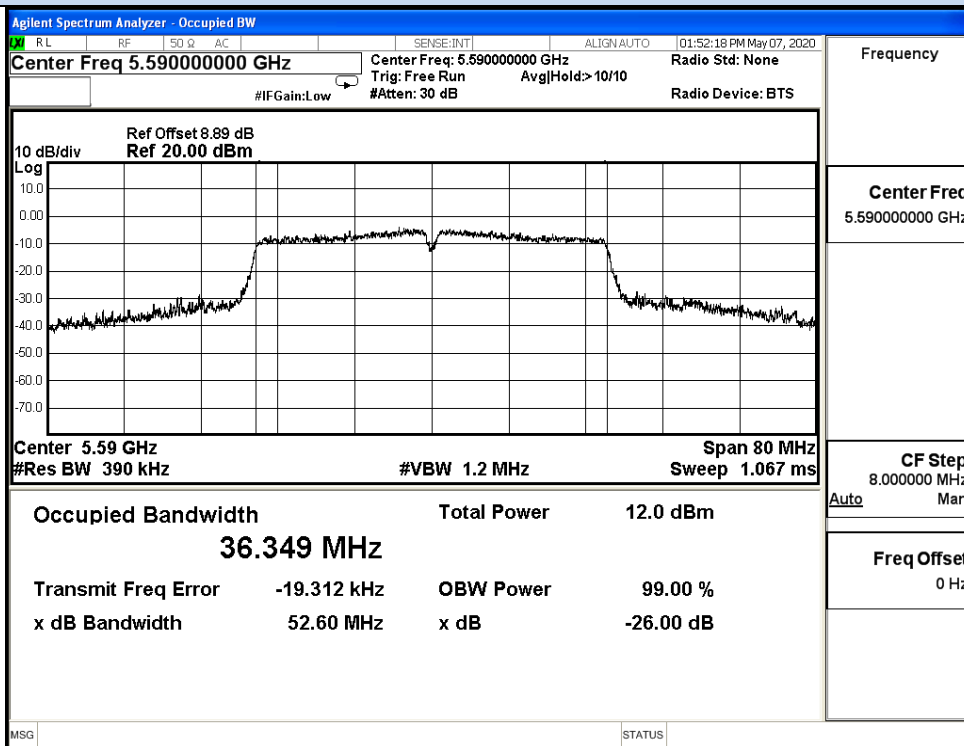
IEEE 802.11n20 / Channel 120 / 5600MHz



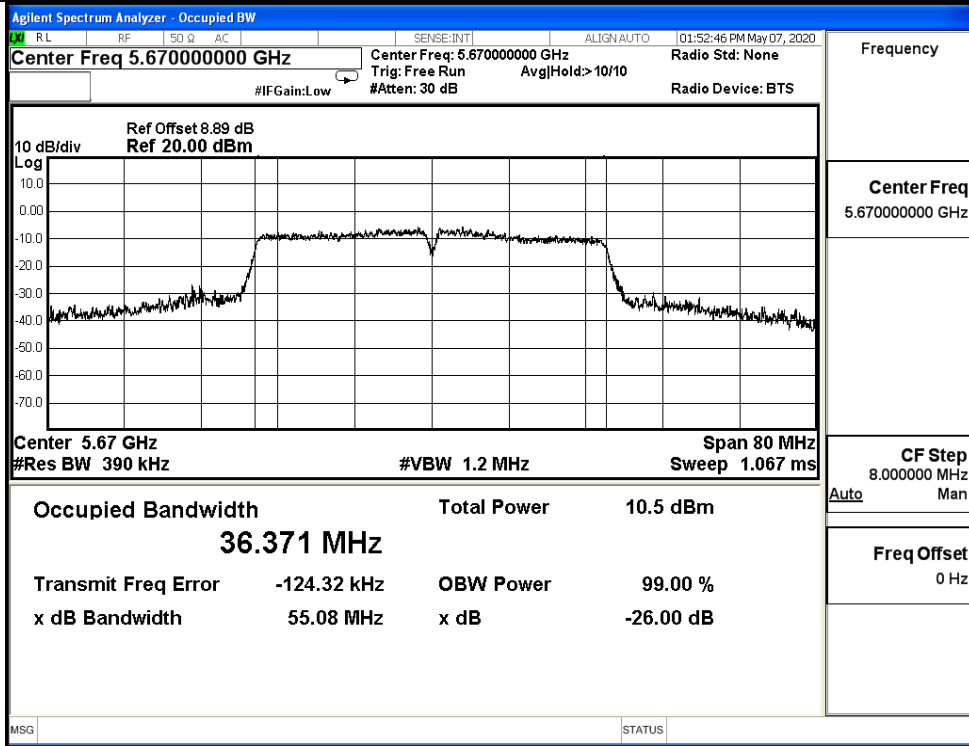
IEEE 802.11n20 / Channel 140 / 5700MHz



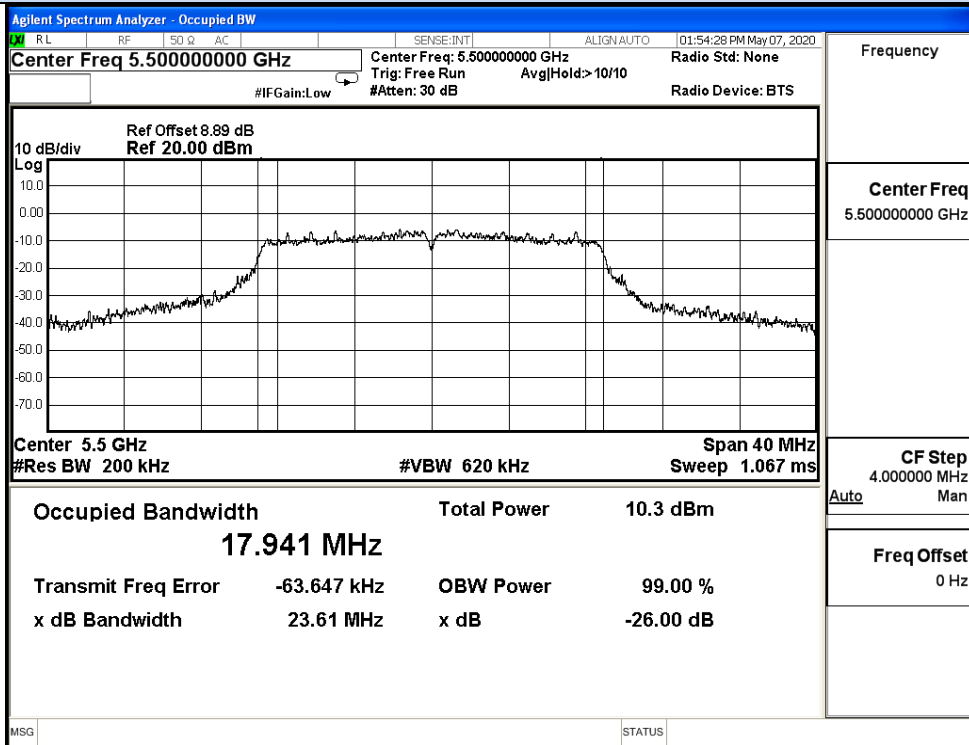
IEEE 802.11n40 / Channel 102 / 5510MHz



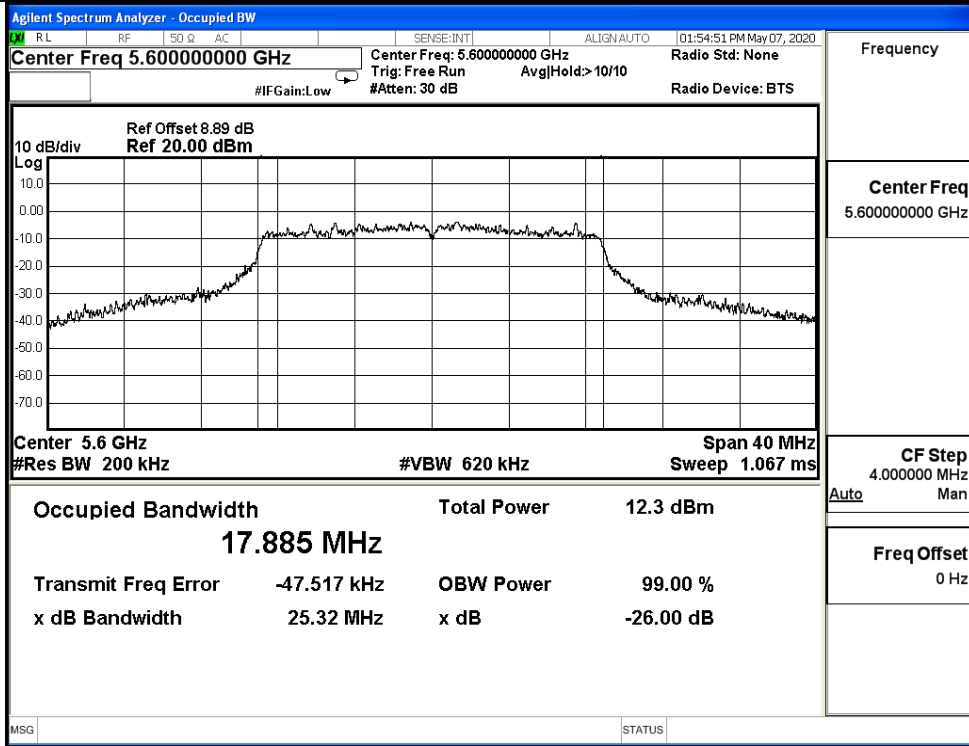
IEEE 802.11n40 / Channel 118 / 5590MHz



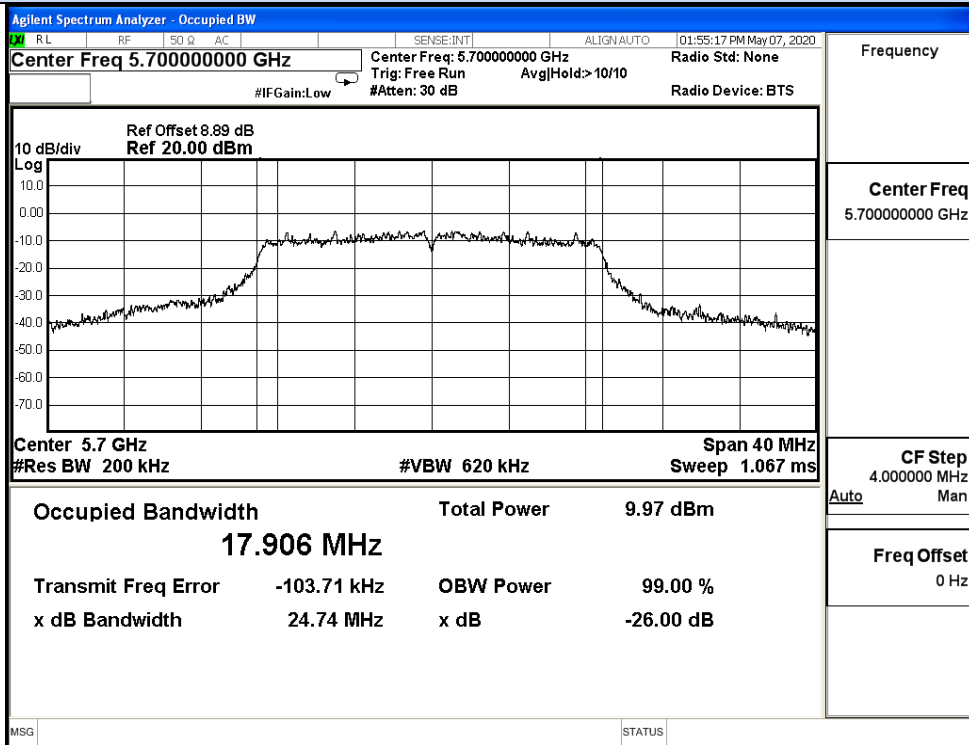
IEEE 802.11n40 / Channel 134 / 5670MHz



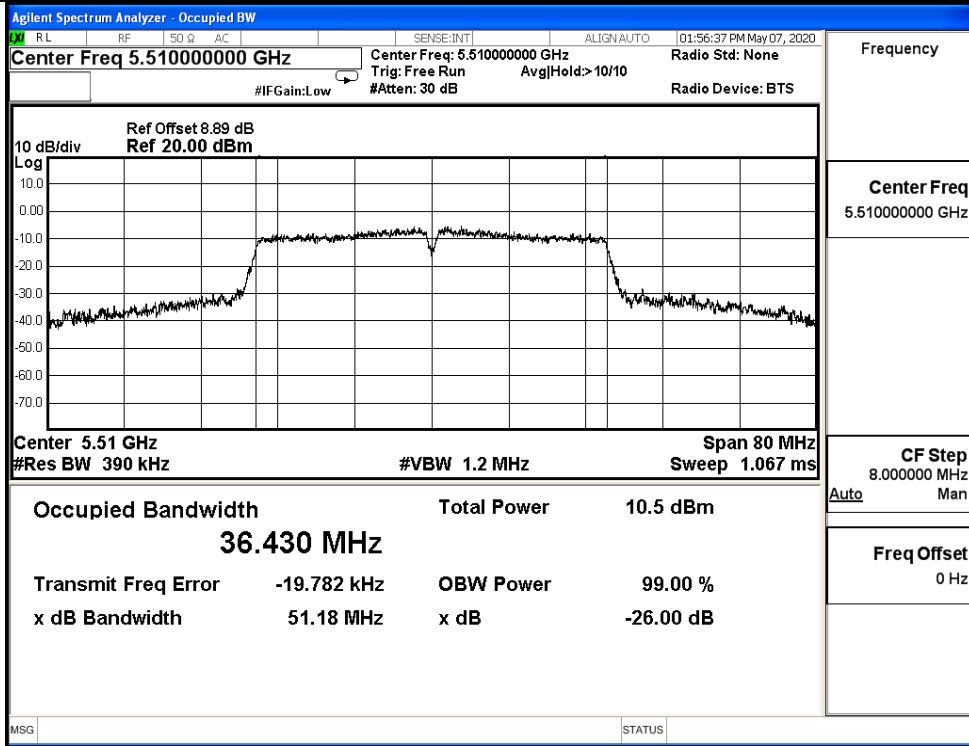
IEEE 802.11ac20 / Channel 100 / 5500MHz



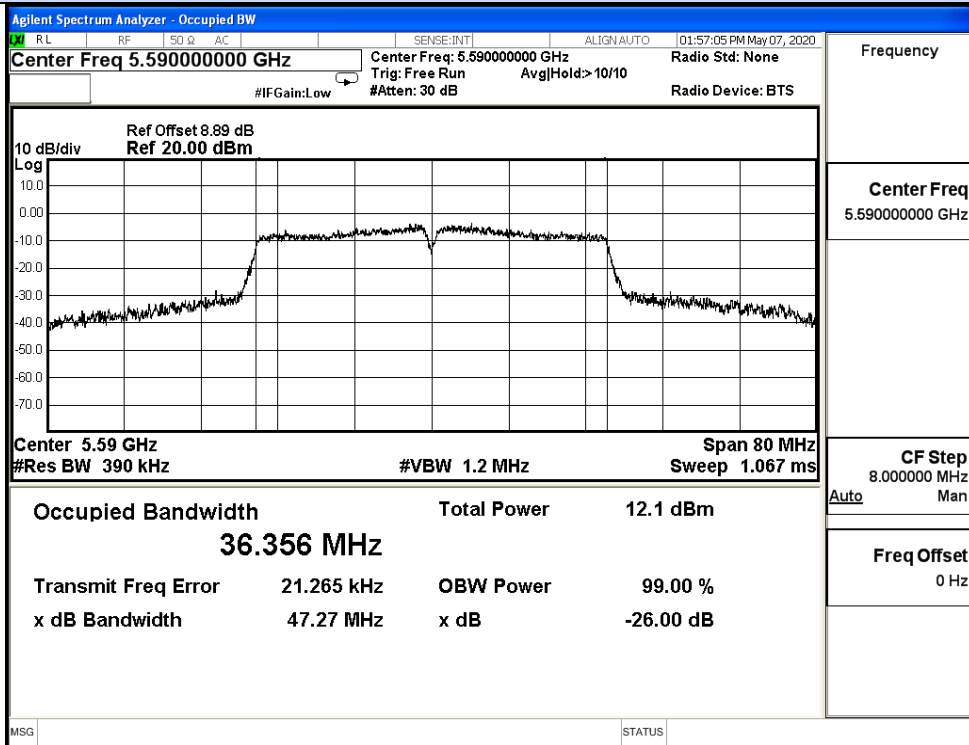
IEEE 802.11ac20 / Channel 120 / 5600MHz



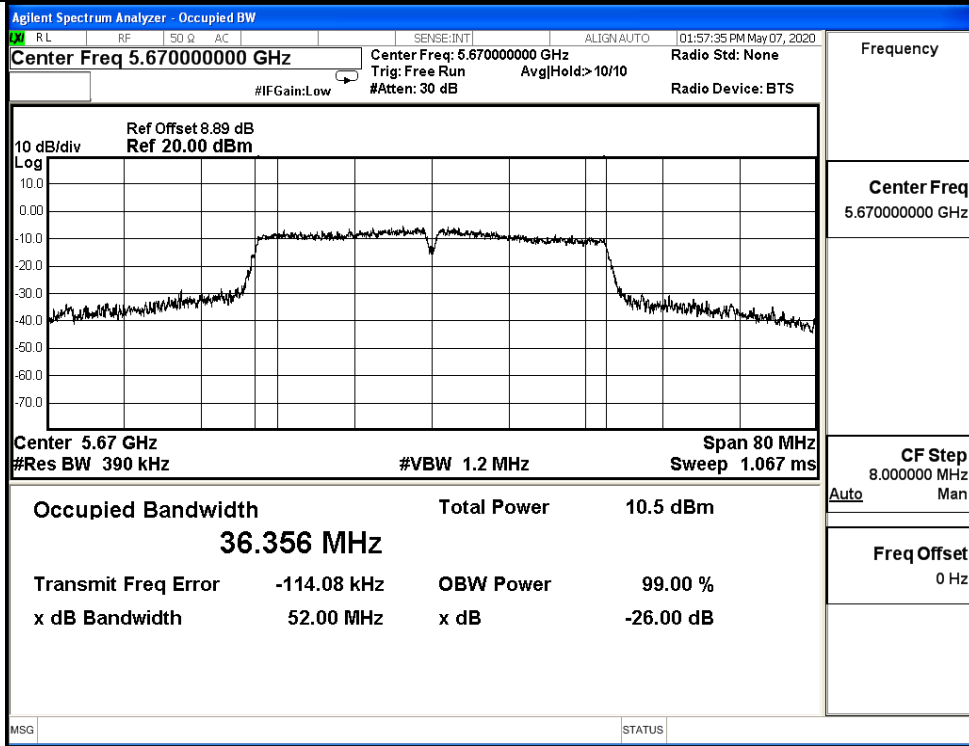
IEEE 802.11ac20 / Channel 140 / 5700MHz



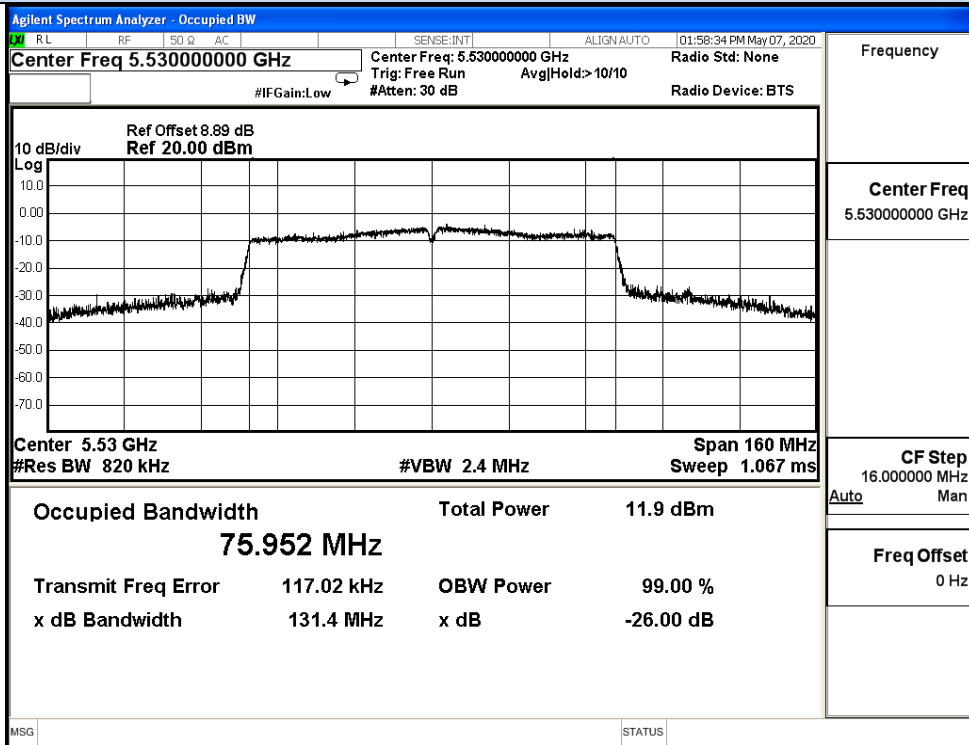
IEEE 802.11ac40 / Channel 102 / 5510MHz



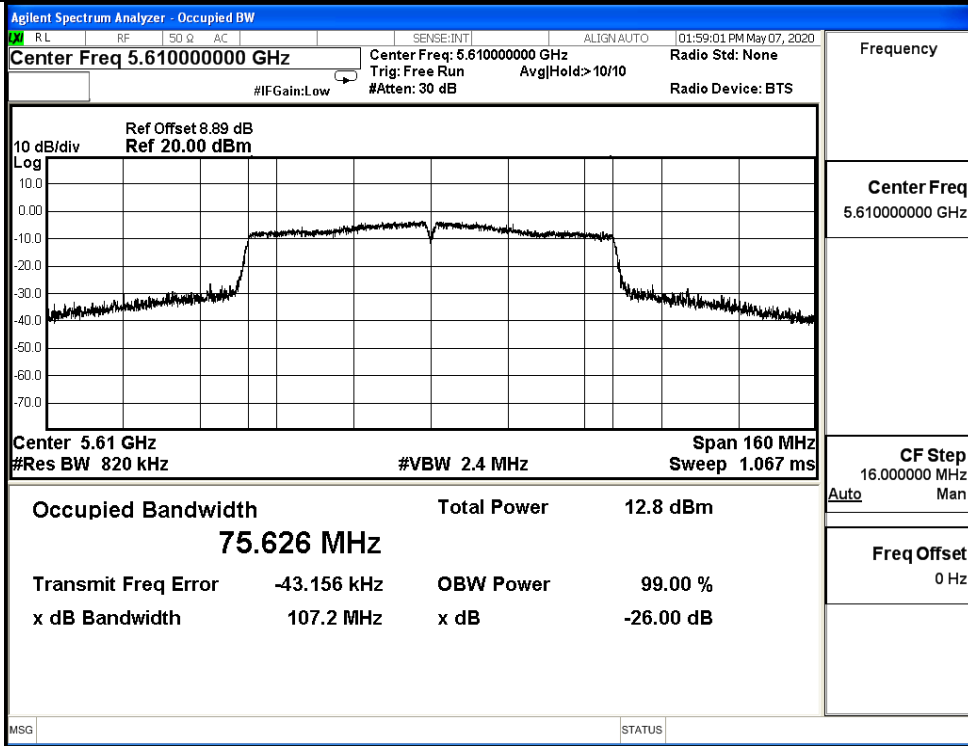
IEEE 802.11ac40 / Channel 118 / 5590MHz



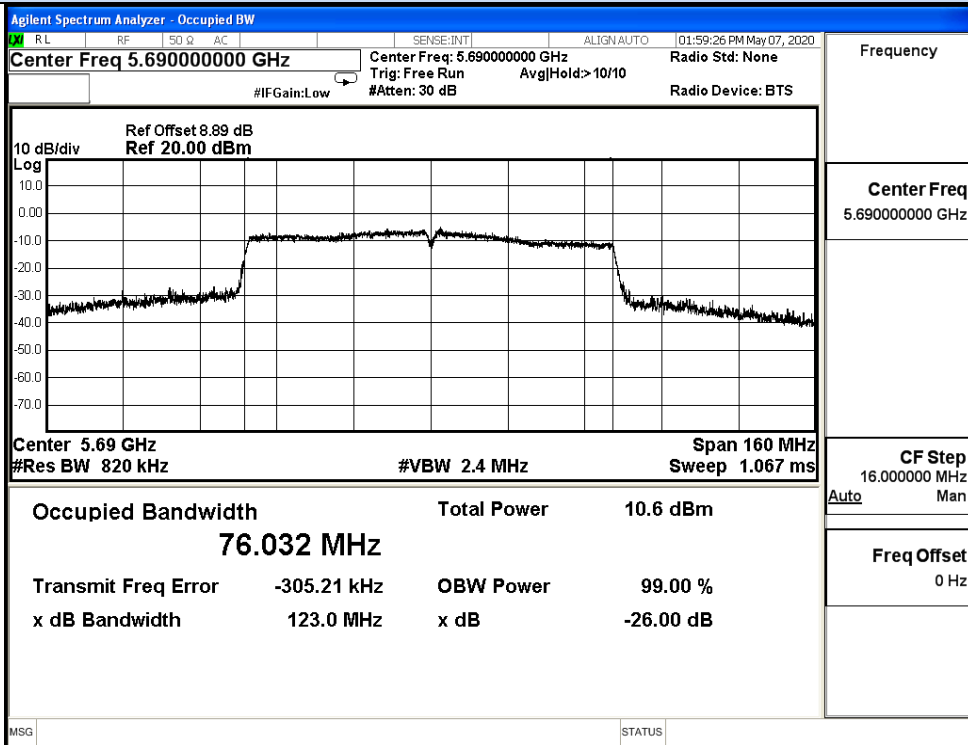
IEEE 802.11ac40 / Channel 134 / 5670MHz



IEEE 802.11ac80 / Channel 106 / 5530MHz



IEEE 802.11ac80 / Channel 122 / 5610MHz



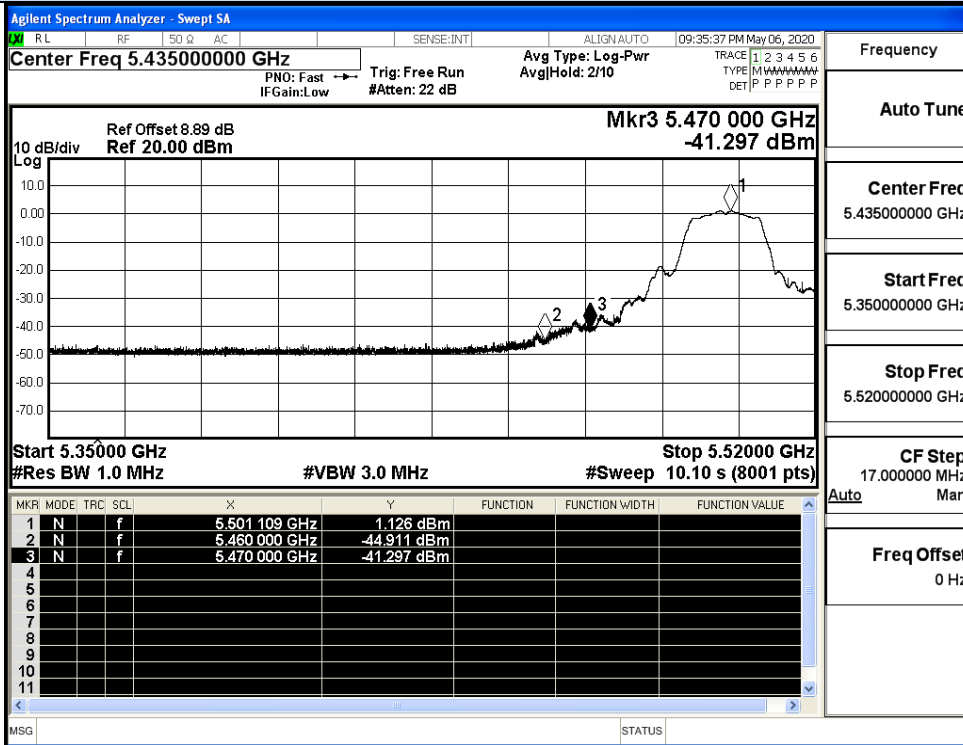
IEEE 802.11ac80 / Channel 138 / 5690MHz



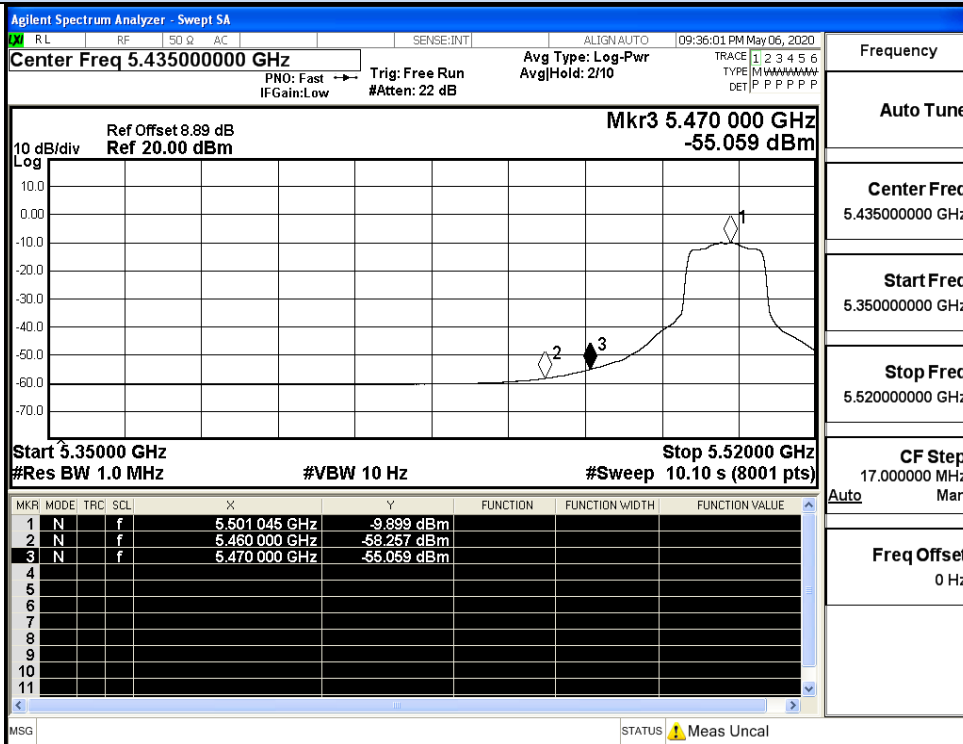
**G.5 Undesirable Emissions Measurement**

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	100	5460.0	-44.91	4.5	0	54.85	Peak	68.20	Pass
		5460.0	-58.26	4.5	0	41.5	Average	54.00	Pass
		5470.0	-41.30	4.5	0	58.46	Peak	68.20	Pass
		5470.0	-55.06	4.5	0	44.7	Average	54.00	Pass
	140	5725.0	-39.77	4.5	0	59.99	Peak	68.20	Pass
		5725.0	-53.44	4.5	0	46.32	Average	54.00	Pass
		5735.0	-45.86	4.5	0	53.9	Peak	68.20	Pass
		5735.0	-56.17	4.5	0	43.59	Average	54.00	Pass
11N2 0 SISO	100	5460.0	-46.67	4.5	0	53.09	Peak	68.20	Pass
		5460.0	-58.34	4.5	0	41.42	Average	54.00	Pass
		5470.0	-40.52	4.5	0	59.24	Peak	68.20	Pass
		5470.0	-55.31	4.5	0	44.45	Average	54.00	Pass
	140	5725.0	-38.98	4.5	0	60.78	Peak	68.20	Pass
		5725.0	-54.32	4.5	0	45.44	Average	54.00	Pass
		5735.0	-45.40	4.5	0	54.36	Peak	68.20	Pass
		5735.0	-57.05	4.5	0	42.71	Average	54.00	Pass
11N4 0 SISO	102	5460.0	-41.31	4.5	0	58.45	Peak	68.20	Pass
		5460.0	-54.17	4.5	0	45.59	Average	54.00	Pass
		5470.0	-35.19	4.5	0	64.57	Peak	68.20	Pass
		5470.0	-49.68	4.5	0	50.08	Average	54.00	Pass
	134	5725.0	-47.62	4.5	0	52.14	Peak	68.20	Pass
		5725.0	-57.28	4.5	0	42.48	Average	54.00	Pass
		5735.0	-47.43	4.5	0	52.33	Peak	68.20	Pass
		5735.0	-57.57	4.5	0	42.19	Average	54.00	Pass
11A C20 SIS O	100	5460.0	-45.88	4.5	0	53.88	Peak	68.20	Pass
		5460.0	-58.13	4.5	0	41.63	Average	54.00	Pass
		5470.0	-39.39	4.5	0	60.37	Peak	68.20	Pass
		5470.0	-55.12	4.5	0	44.64	Average	54.00	Pass
	140	5725.0	-39.75	4.5	0	60.01	Peak	68.20	Pass
		5725.0	-54.48	4.5	0	45.28	Average	54.00	Pass
		5735.0	-46.62	4.5	0	53.14	Peak	68.20	Pass
		5735.0	-56.94	4.5	0	42.82	Average	54.00	Pass
11A C40 SIS O	102	5460.0	-39.36	4.5	0	60.4	Peak	68.20	Pass
		5460.0	-54.18	4.5	0	45.58	Average	54.00	Pass
		5470.0	-32.04	4.5	0	67.72	Peak	68.20	Pass
		5470.0	-49.53	4.5	0	50.23	Average	54.00	Pass
	134	5725.0	-46.97	4.5	0	52.79	Peak	68.20	Pass
		5725.0	-57.27	4.5	0	42.49	Average	54.00	Pass
		5735.0	-48.26	4.5	0	51.5	Peak	68.20	Pass
		5735.0	-57.56	4.5	0	42.2	Average	54.00	Pass
11A C80 SIS O	106	5460.0	-33.35	4.5	0	66.41	Peak	68.20	Pass
		5460.0	-47.37	4.5	0	52.39	Average	54.00	Pass
		5470.0	-32.31	4.5	0	67.45	Peak	68.20	Pass
		5470.0	-46.43	4.5	0	53.33	Average	54.00	Pass
	138	5725.0	-45.70	4.5	0	54.06	Peak	68.20	Pass
		5725.0	-57.59	4.5	0	42.17	Average	54.00	Pass
		5735.0	-46.36	4.5	0	53.4	Peak	68.20	Pass
		5735.0	-57.72	4.5	0	42.04	Average	54.00	Pass

Undesirable Emissions Measurement

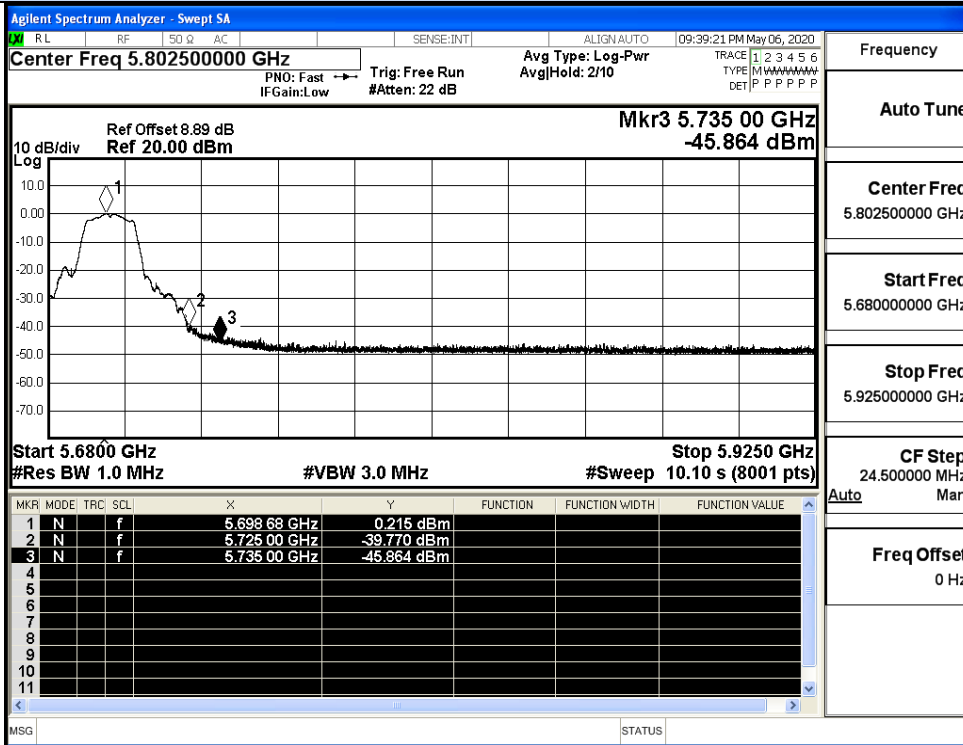


IEEE 802.11a / Channel 100 / 5500MHz / Peak

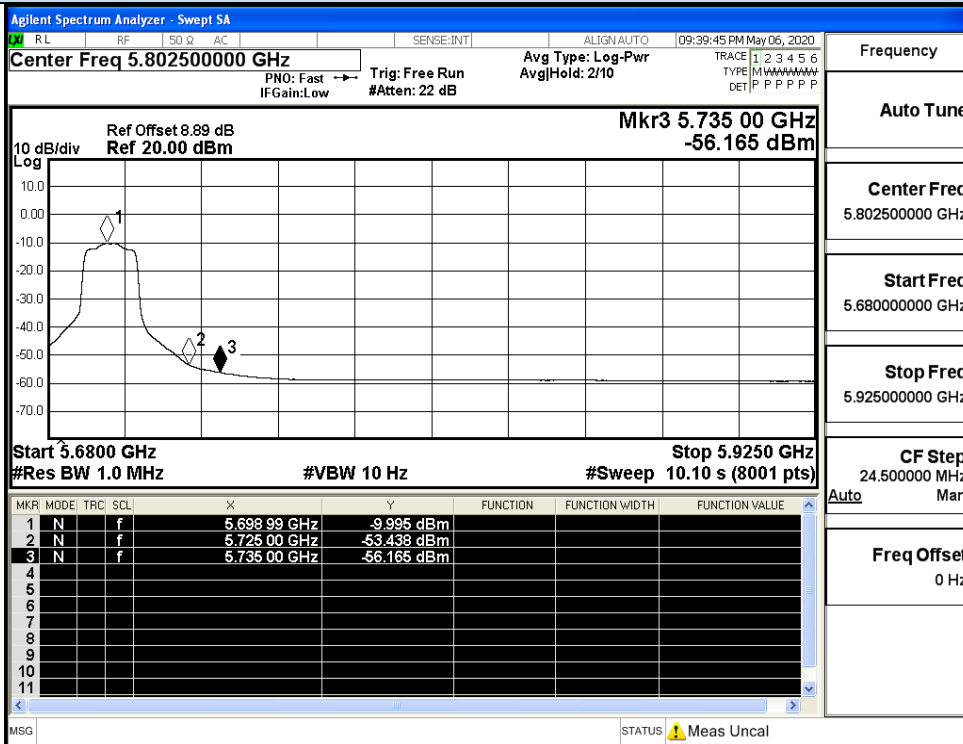


IEEE 802.11a / Channel 100 / 5500MHz / Average

Undesirable Emissions Measurement

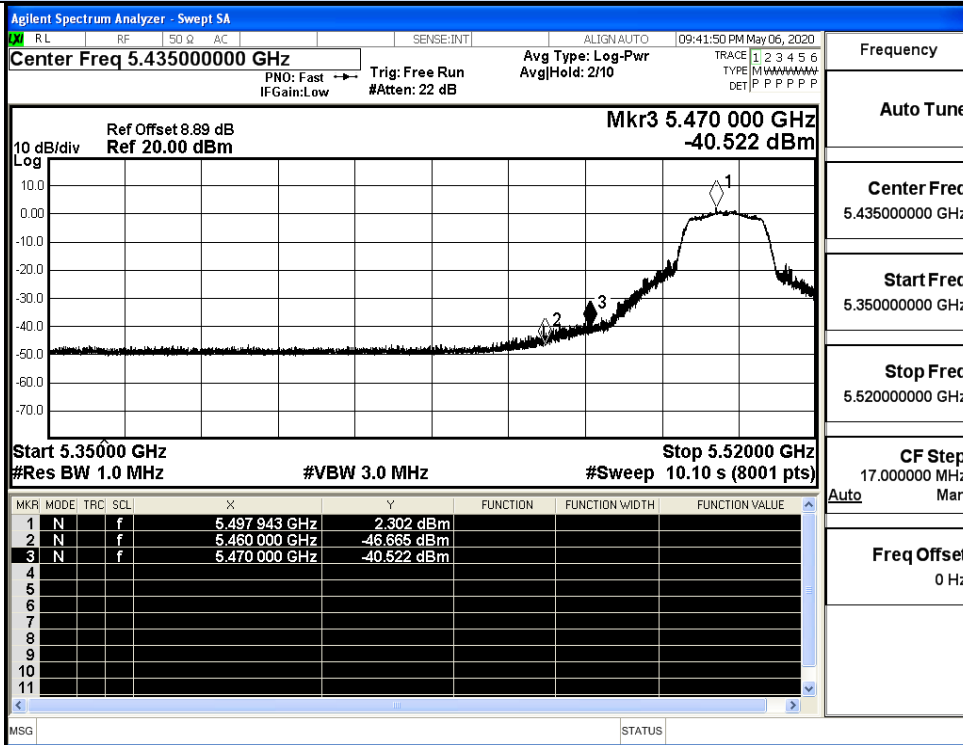


IEEE 802.11a / Channel 140 / 5700MHz / Peak

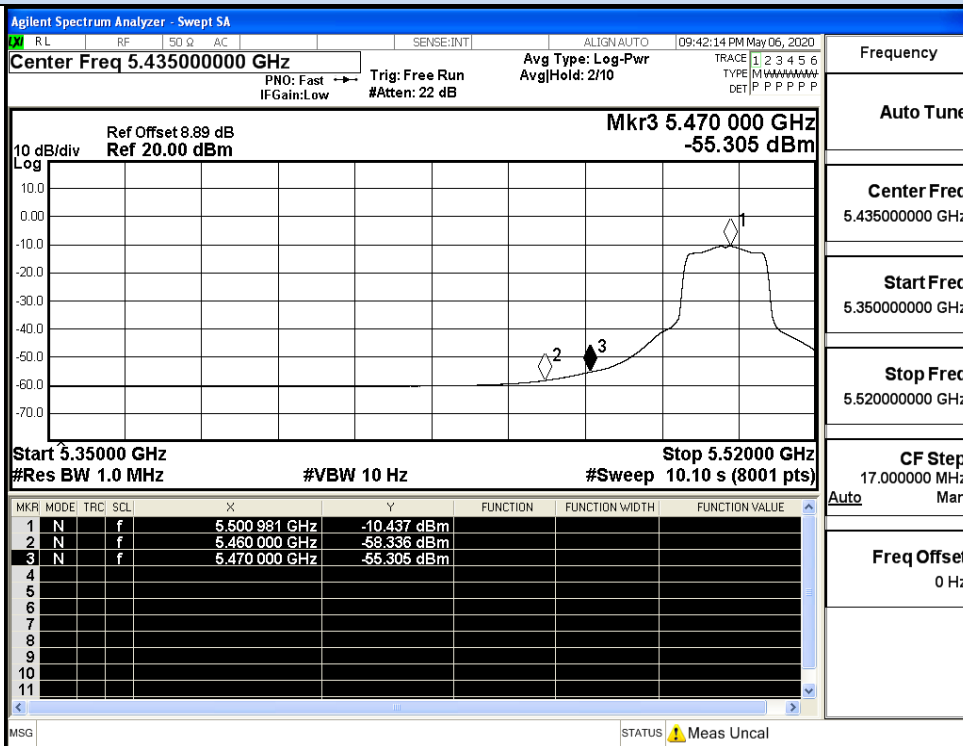


IEEE 802.11a / Channel 140 / 5700MHz / Average

Undesirable Emissions Measurement

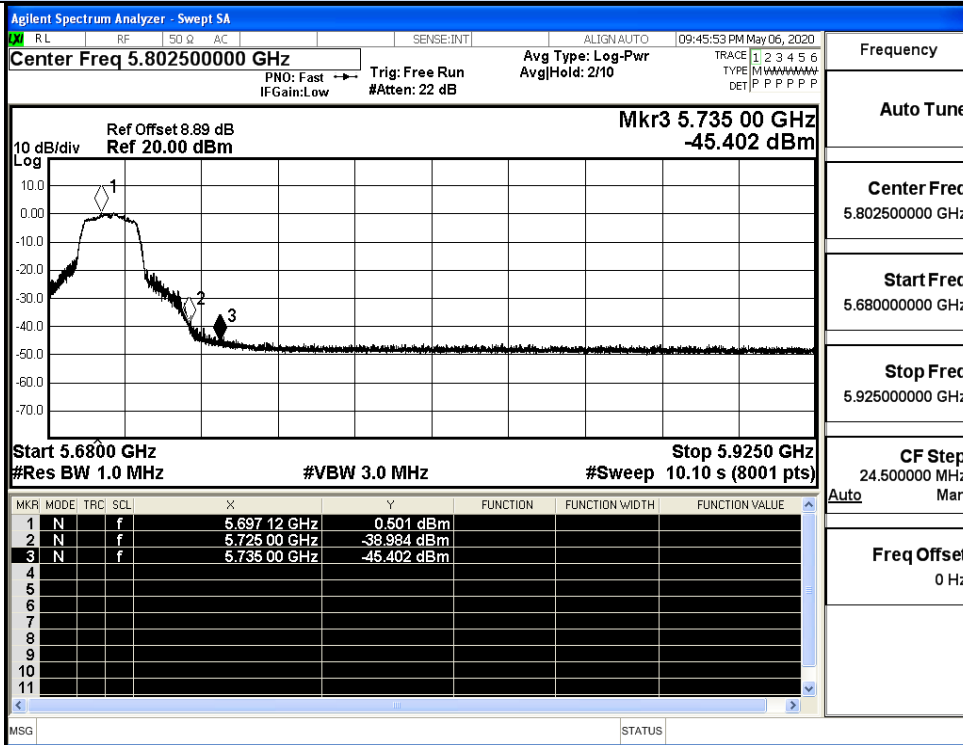


IEEE 802.11n20 / Channel 100 / 5500MHz / Peak

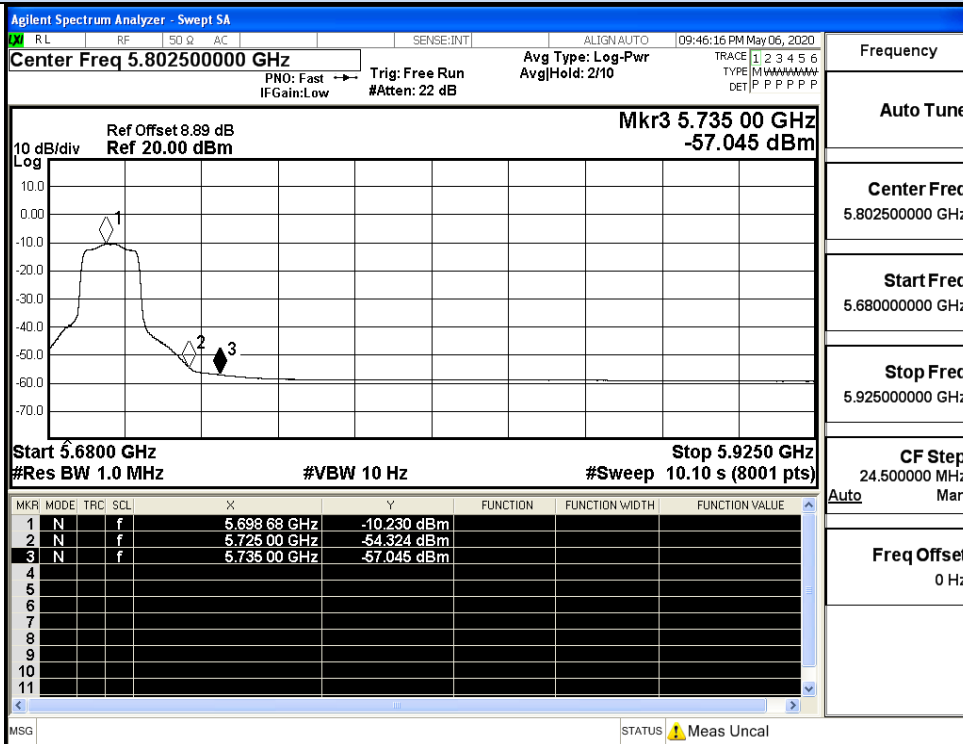


IEEE 802.11n20 / Channel 100 / 5500MHz / Average

Undesirable Emissions Measurement

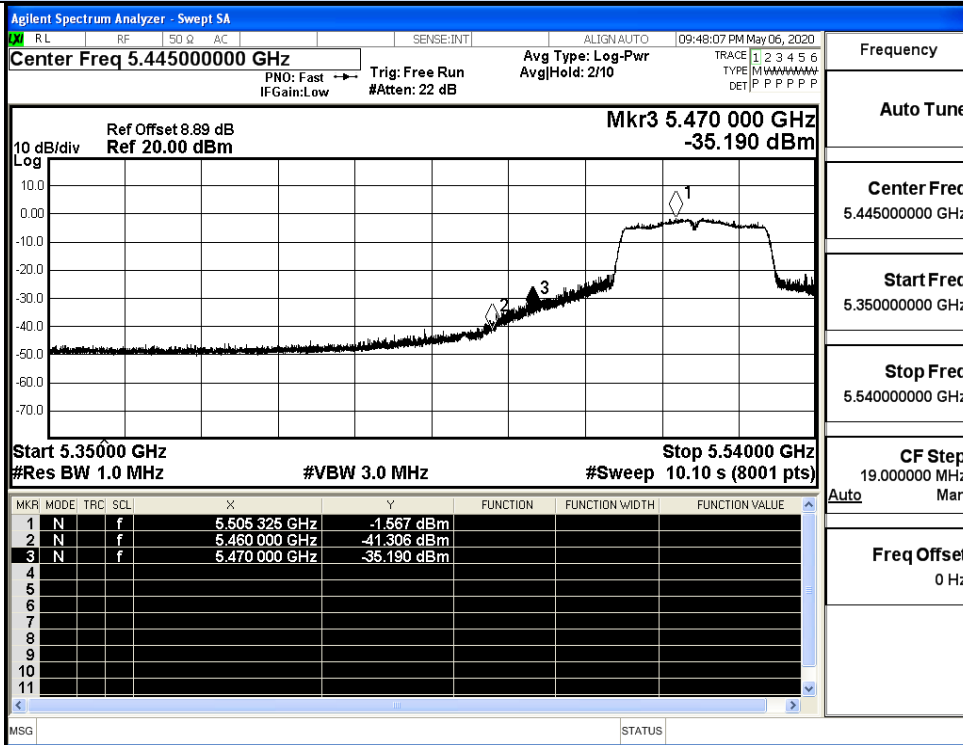


IEEE 802.11n20 / Channel 140 / 5700MHz / Peak

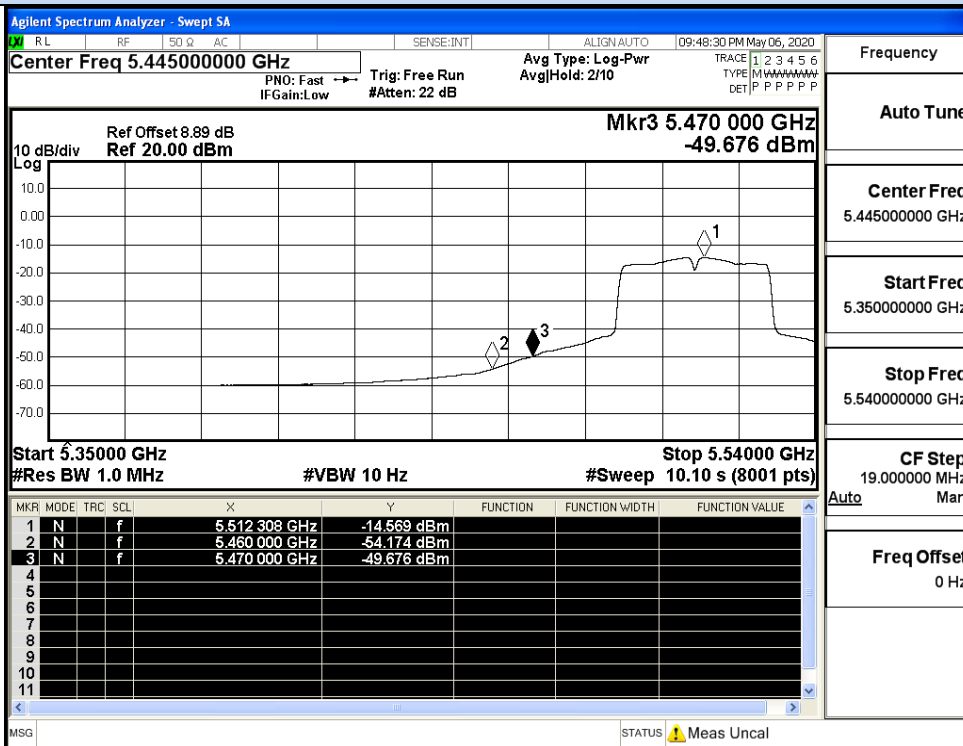


IEEE 802.11n20 / Channel 140 / 5700MHz / Average

Undesirable Emissions Measurement

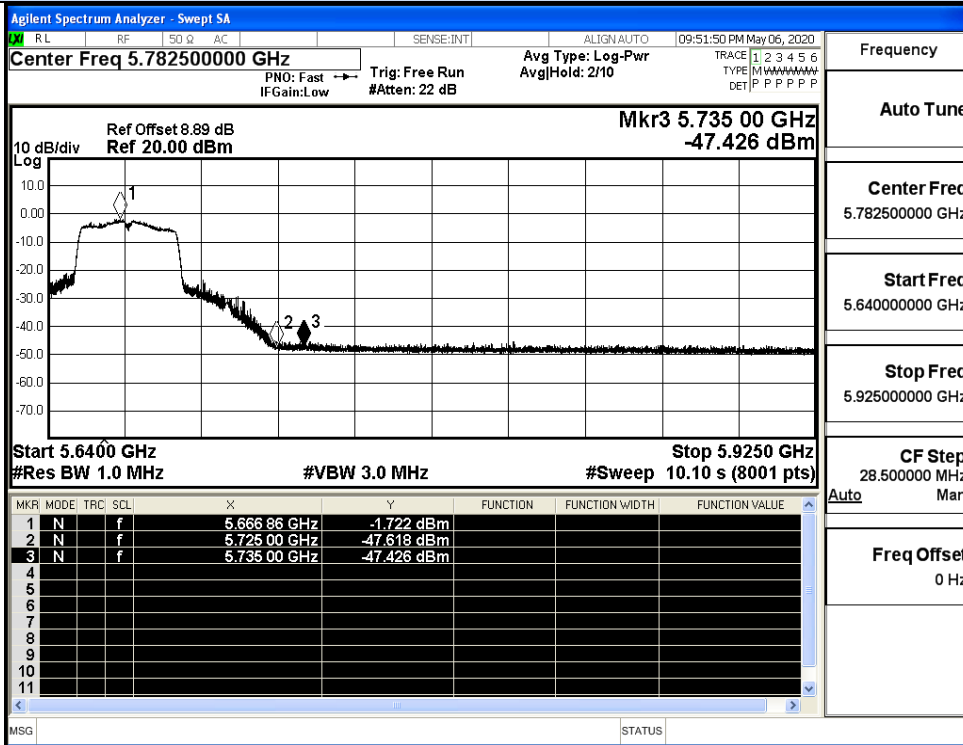


IEEE 802.11n40 / Channel 102 / 5510MHz / Peak

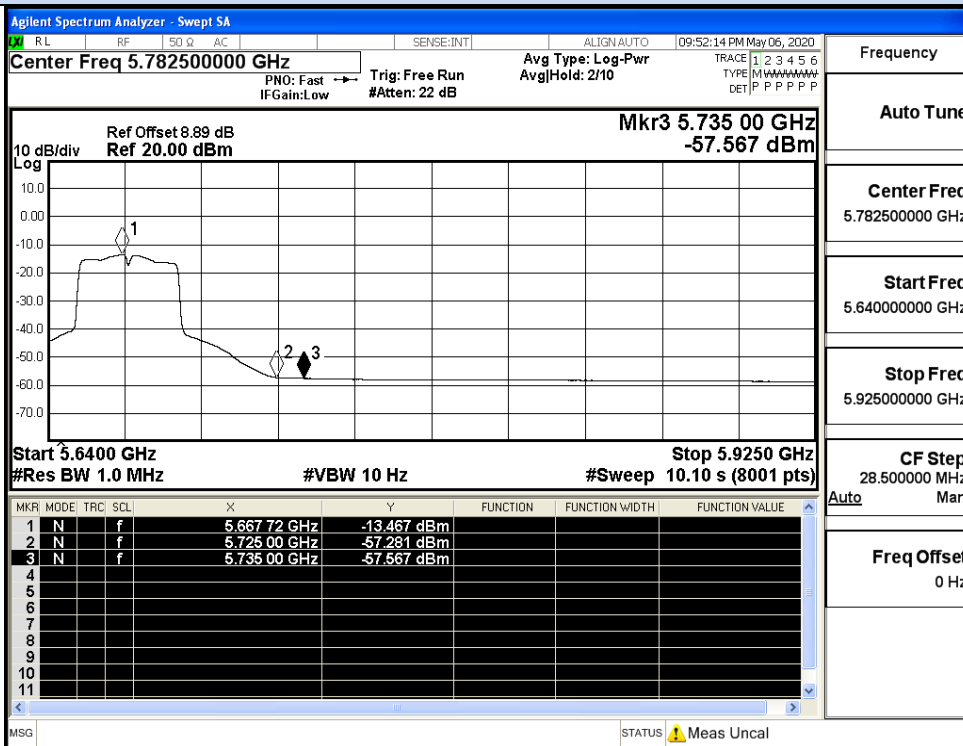


IEEE 802.11n40 / Channel 102 / 5510MHz / Average

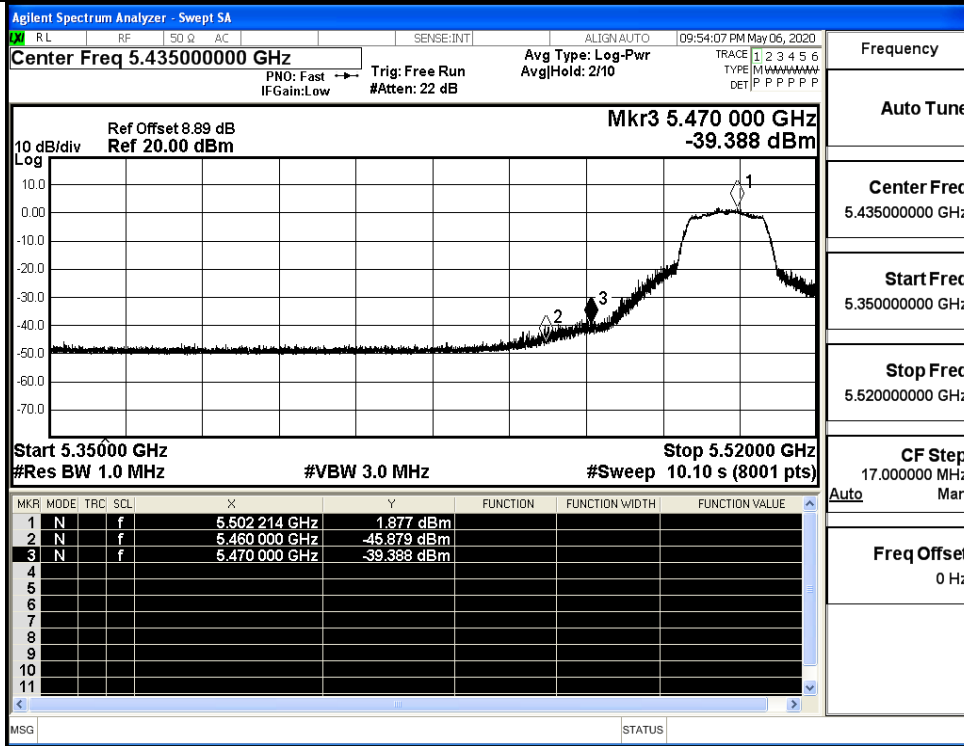
Undesirable Emissions Measurement



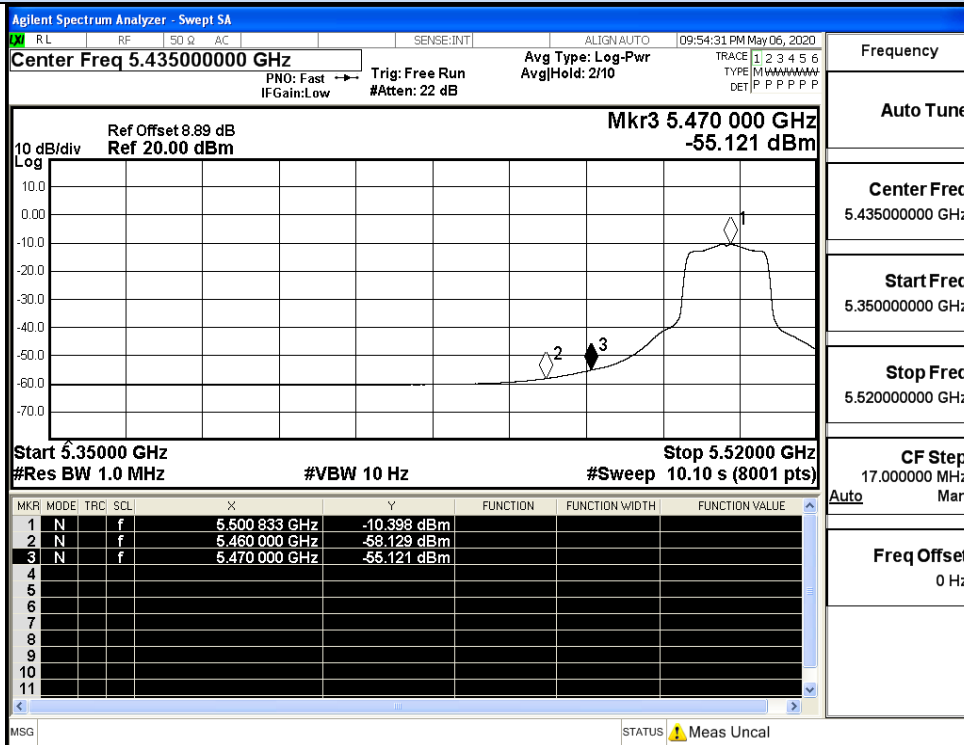
IEEE 802.11n40 / Channel 134 / 5670MHz / Peak



IEEE 802.11n40 / Channel 134 / 5670MHz / Average

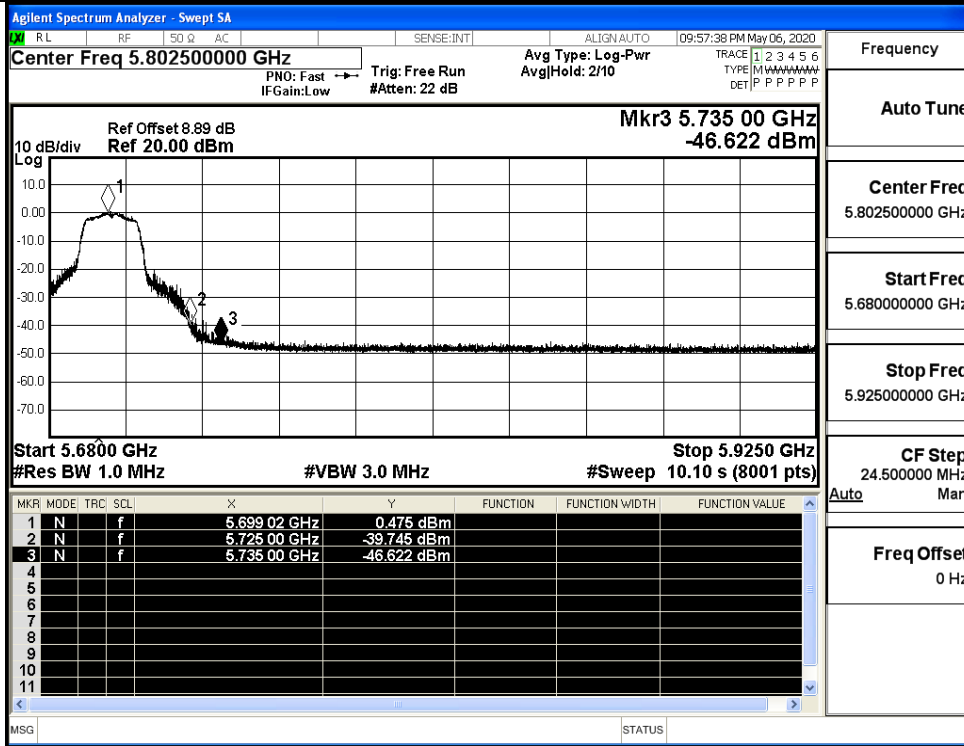


IEEE 802.11ac20 / Channel 100 / 5500MHz / Peak

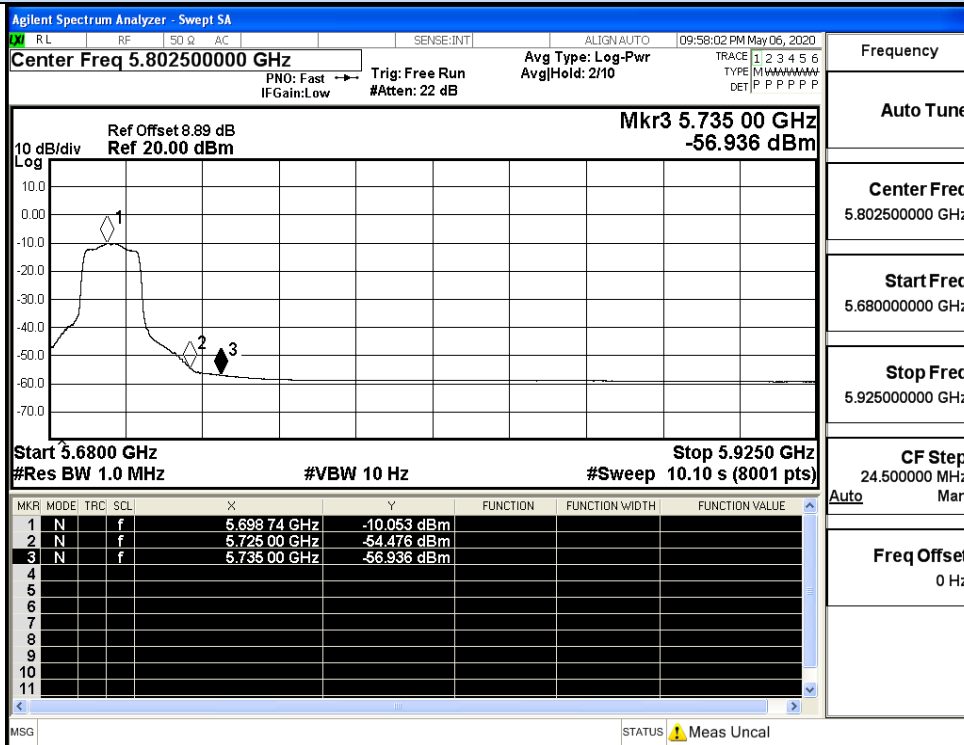


IEEE 802.11ac20 / Channel 100 / 5500MHz / Average

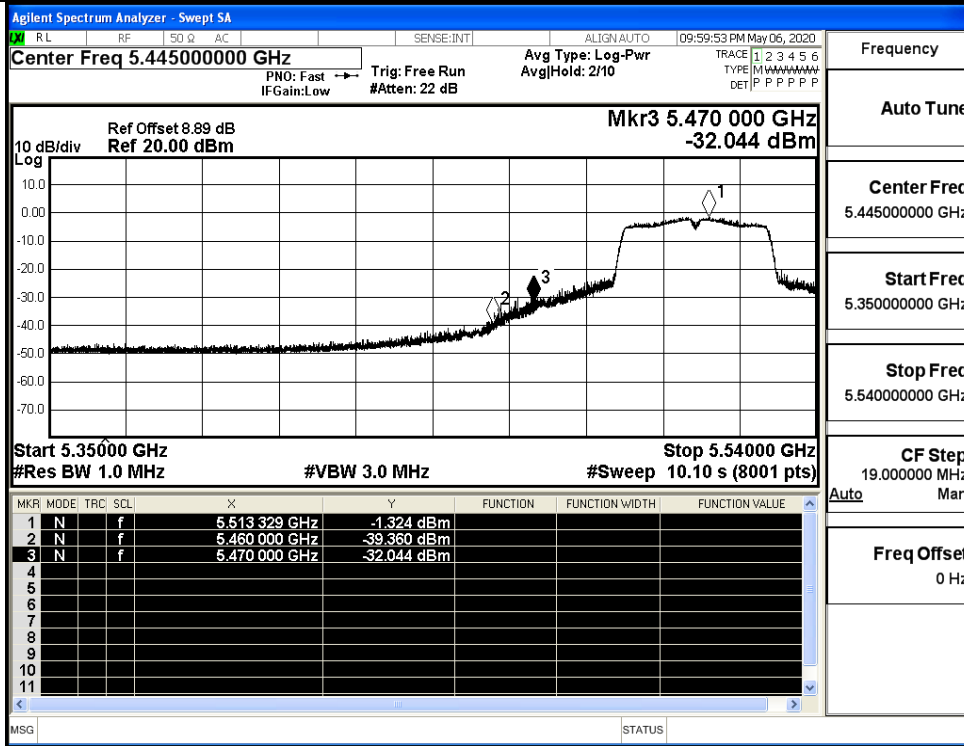




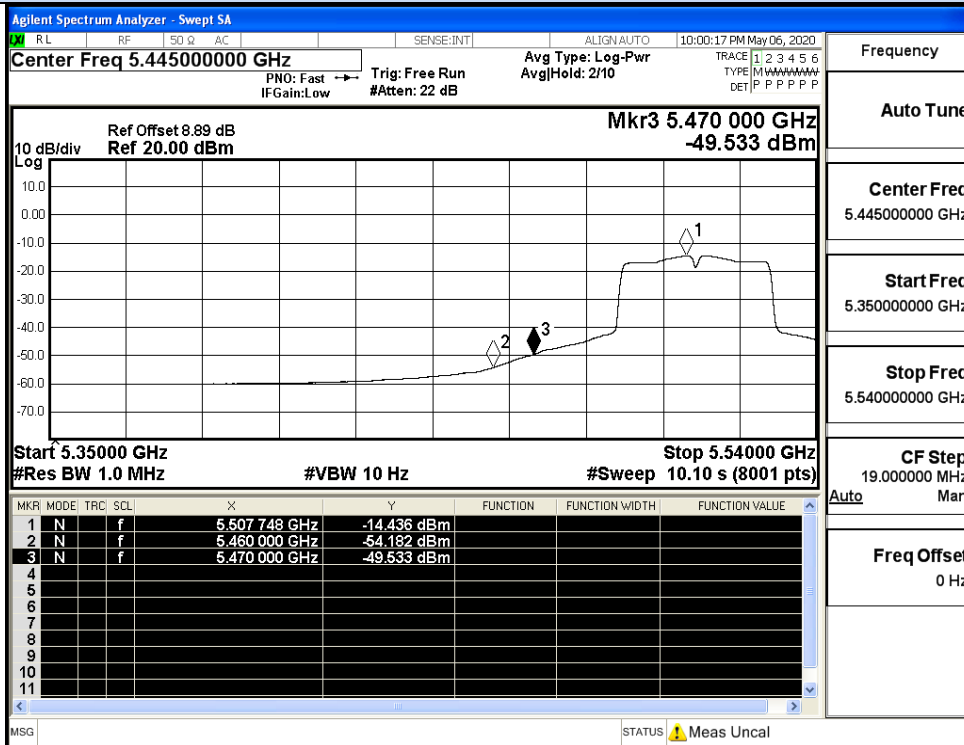
IEEE 802.11ac20 / Channel 140 / 5700MHz / Peak



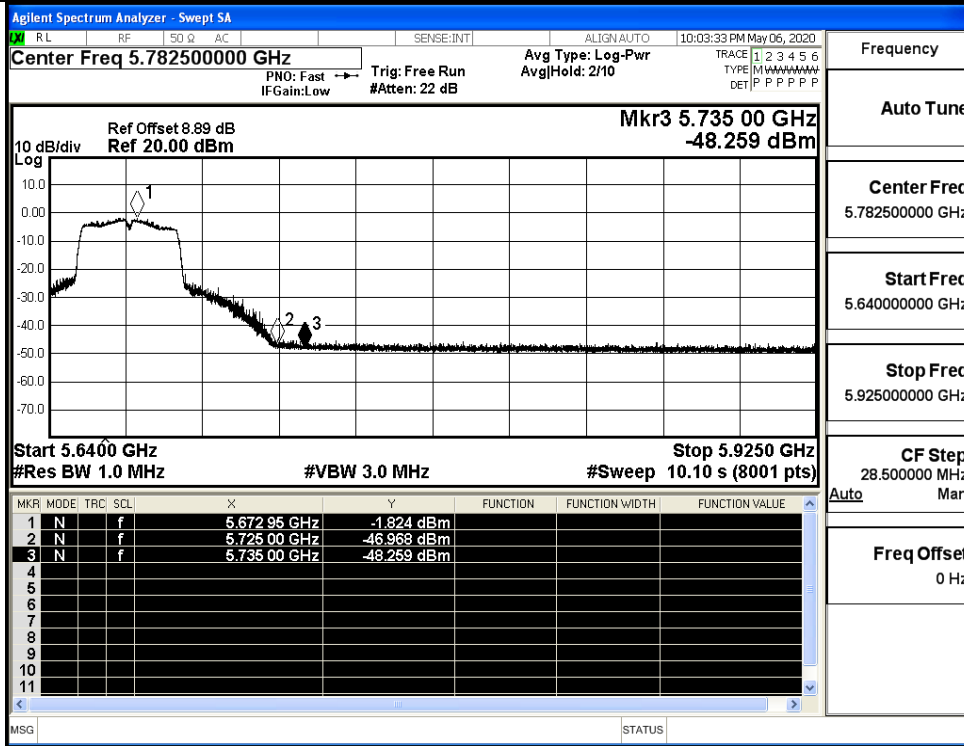
IEEE 802.11ac20 / Channel 140 / 5700MHz / Average



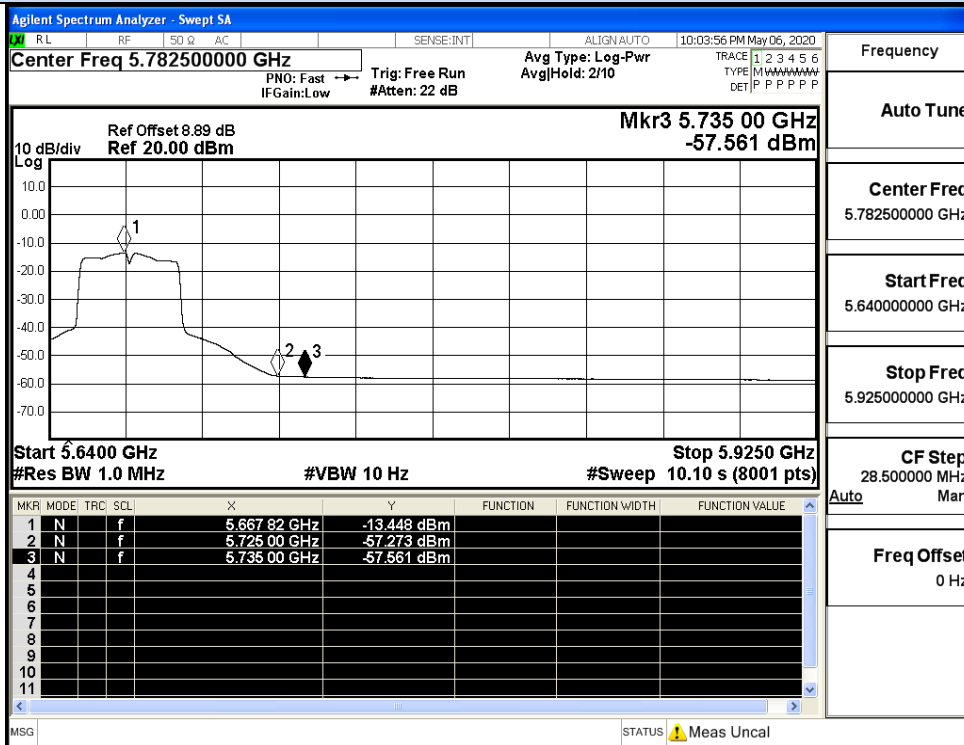
IEEE 802.11ac40 / Channel 102 / 5510MHz / Peak



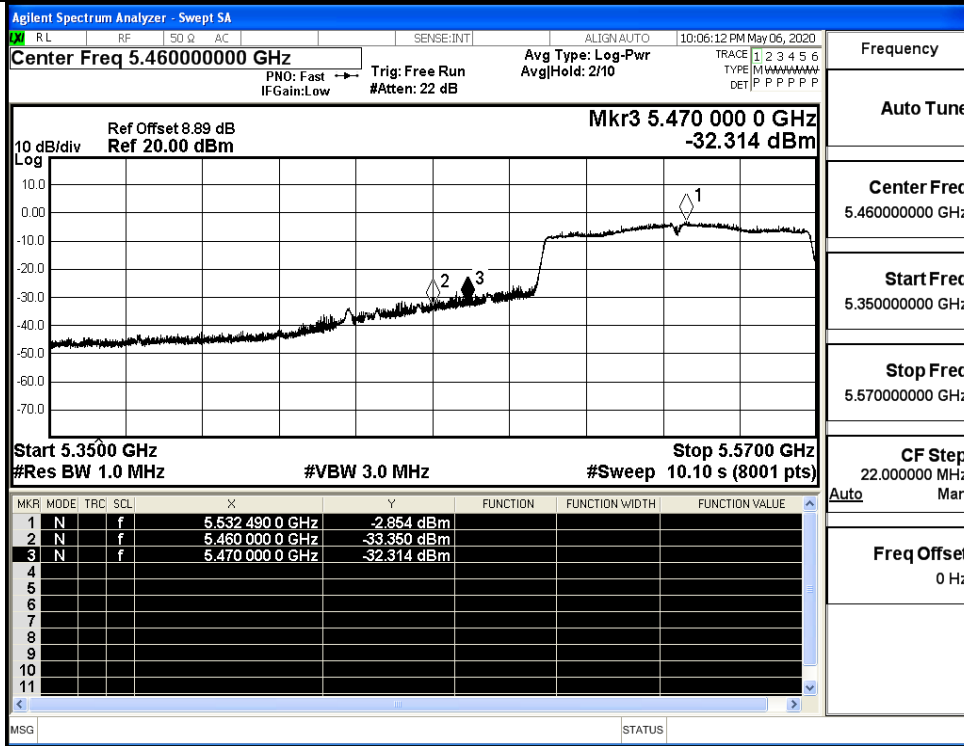
IEEE 802.11ac40 / Channel 102 / 5510MHz / Average



IEEE 802.11ac40 / Channel 134 / 5670MHz / Peak

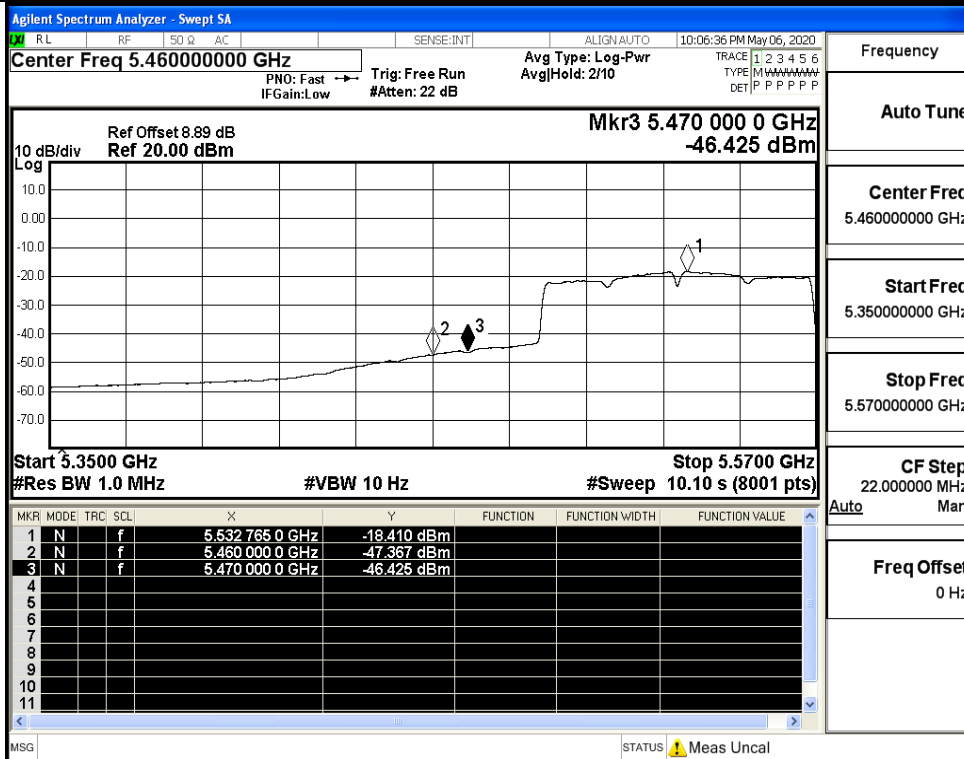


IEEE 802.11ac40 / Channel 134 / 5670MHz / Average



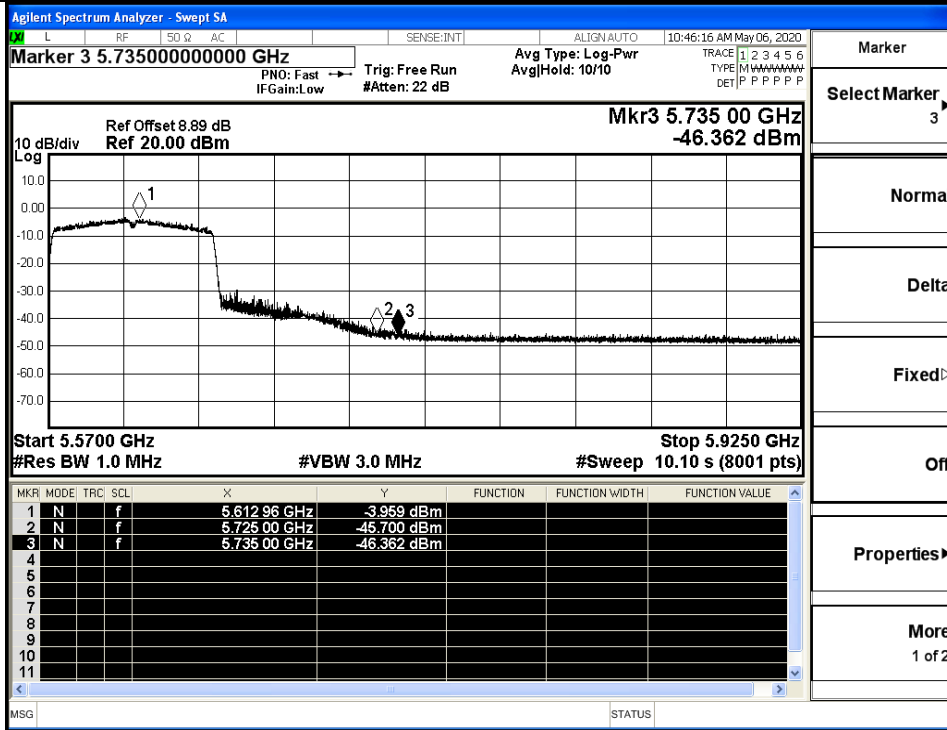
Frequency	
Auto Tune	
Center Freq	5.460000000 GHz
Start Freq	5.350000000 GHz
Stop Freq	5.570000000 GHz
CF Step	22.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 106 / 5530MHz / Peak

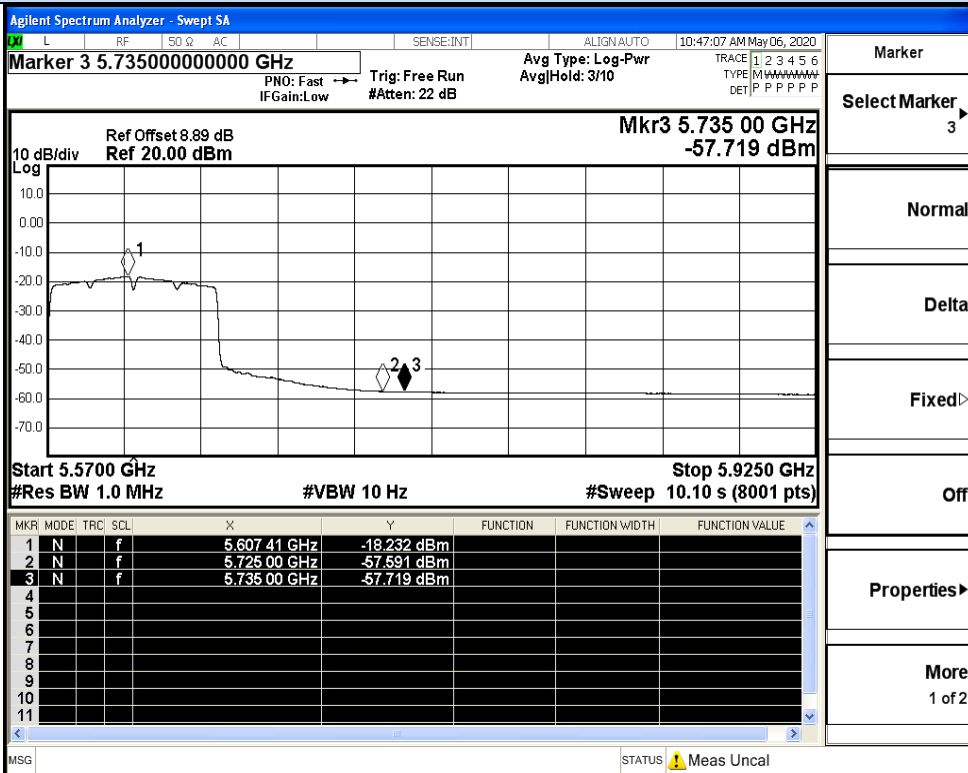


Frequency	
Auto Tune	
Center Freq	5.460000000 GHz
Start Freq	5.350000000 GHz
Stop Freq	5.570000000 GHz
CF Step	22.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 106 / 5530MHz / Average



IEEE 802.11ac80 / Channel 138 / 5690MHz / Peak



IEEE 802.11ac80 / Channel 138 / 5690MHz / Average