

## Appendix E

### RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: N/A

Test Model: W102

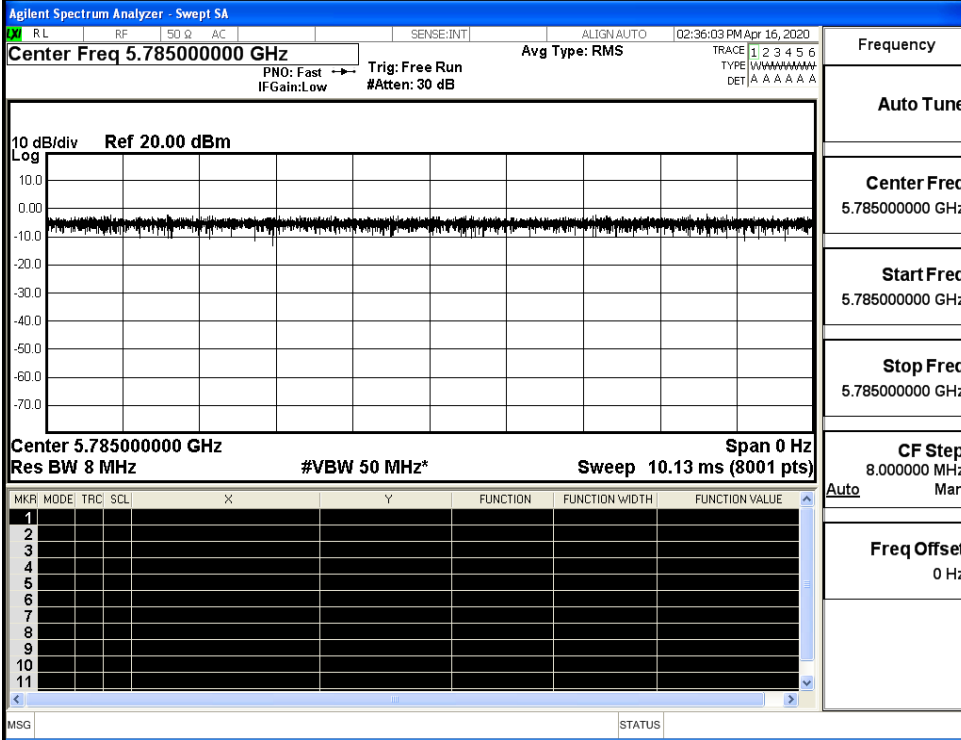
#### Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom.Liu

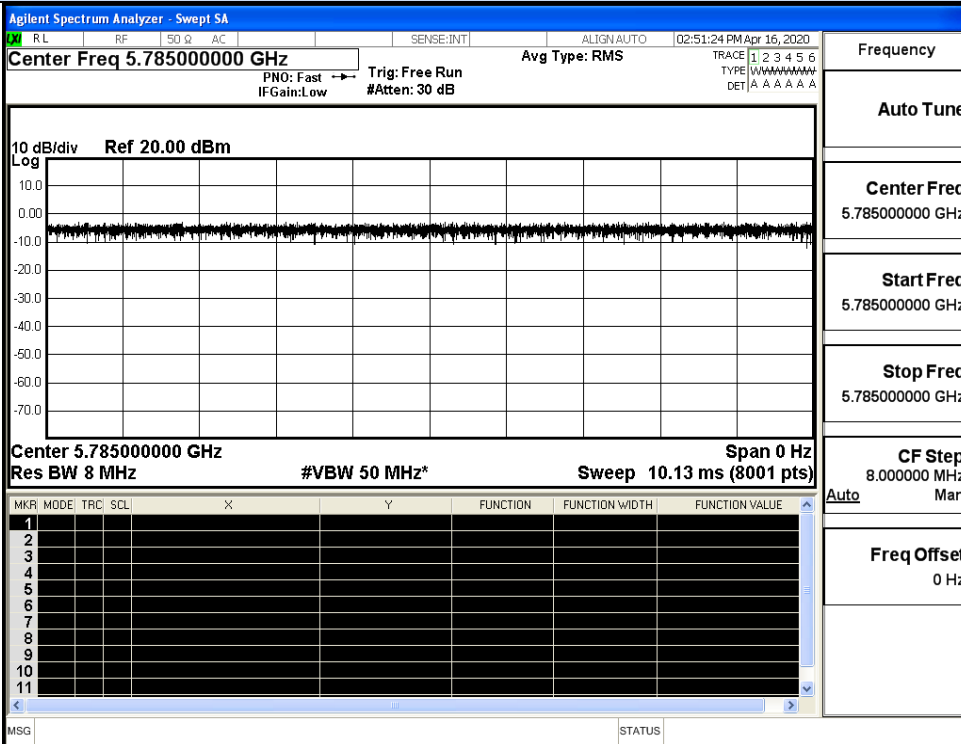
#### E.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01
11AC80 SISO	5775	100	0.00	0.01

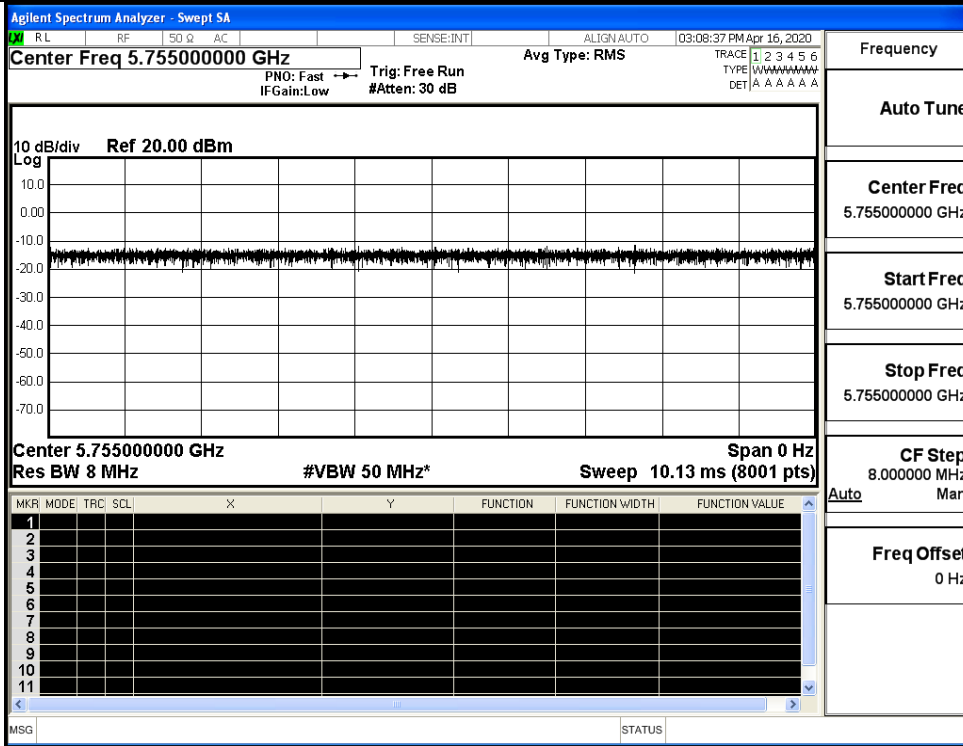
On Time and Duty Cycle



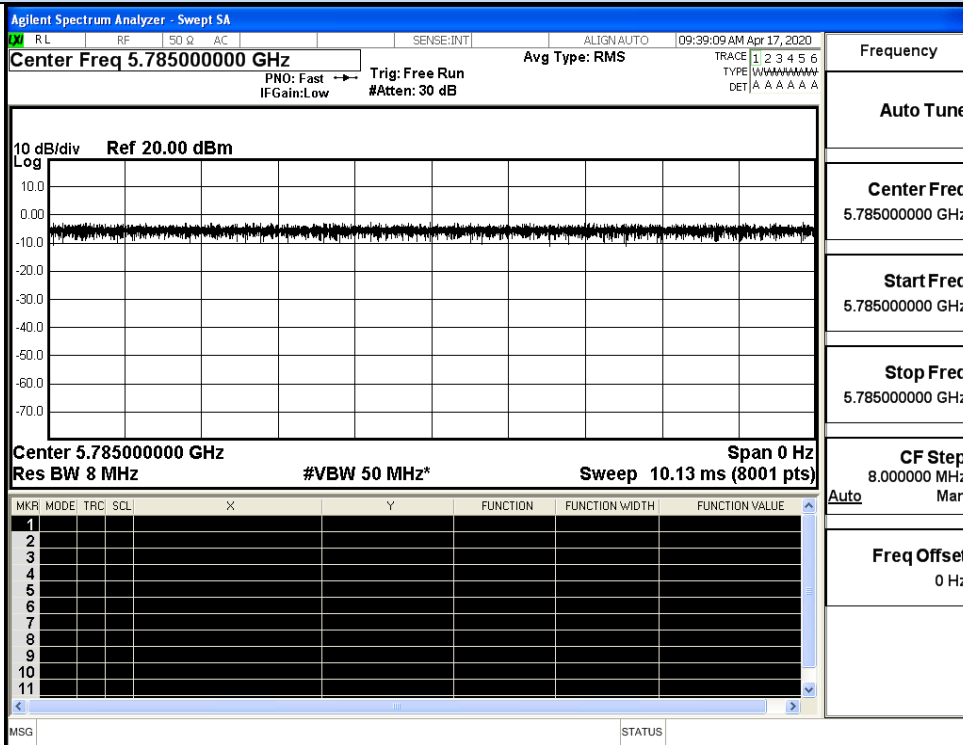
IEEE 802.11a



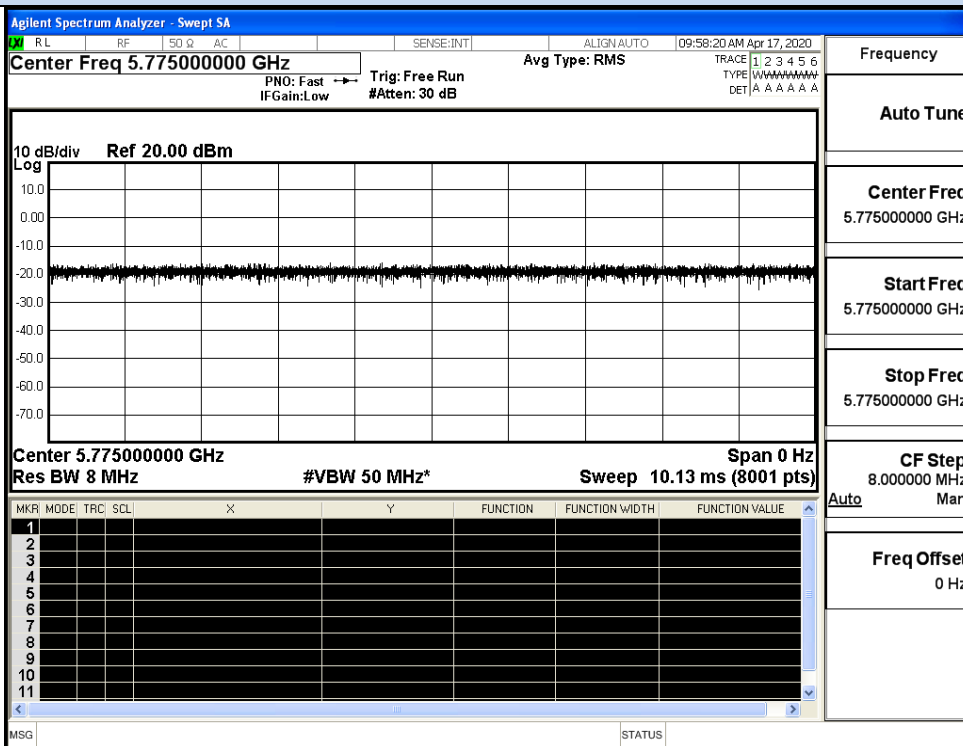
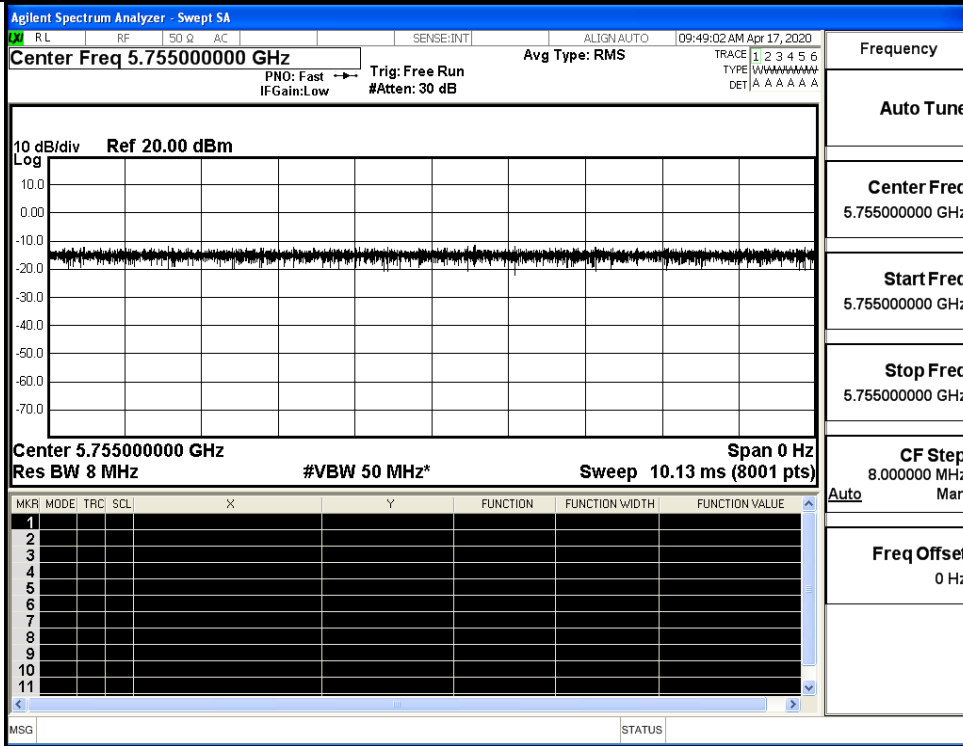
IEEE 802.11n HT20



IEEE 802.11n HT40



IEEE 802.11AC20

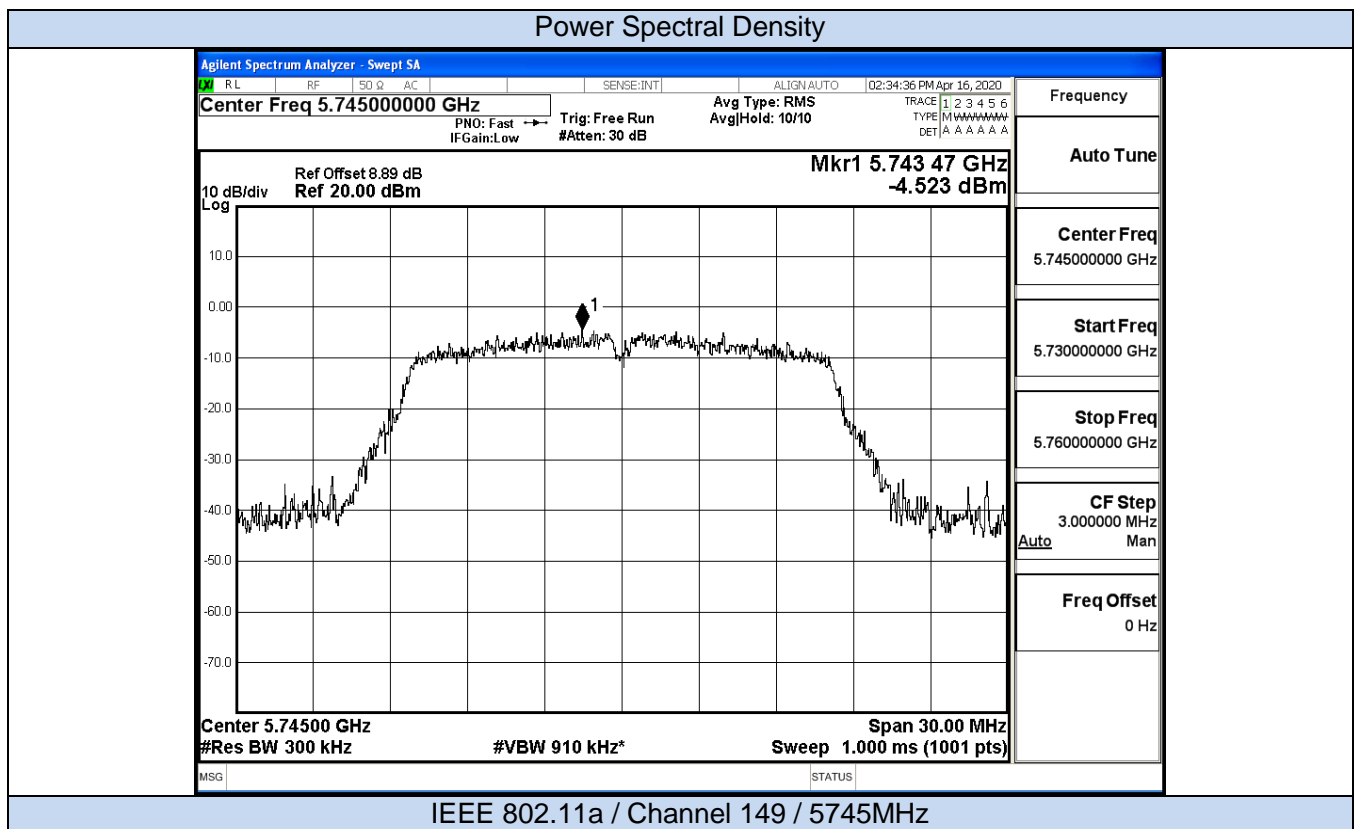


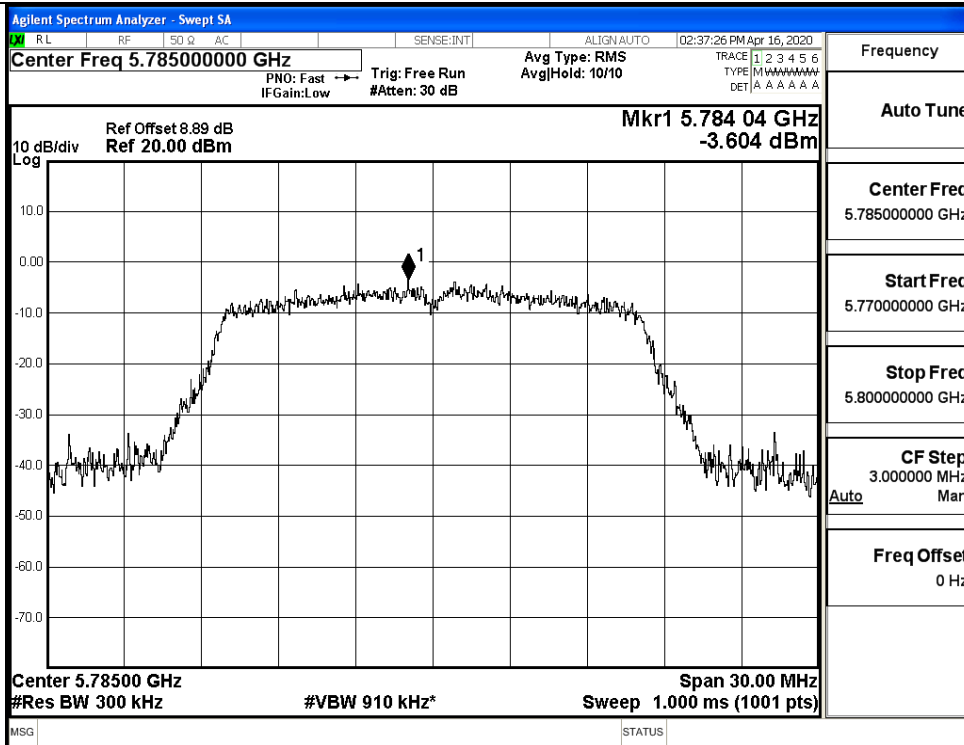
**E.2 Maximum Conduct Output Power**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	10.72	0	10.72	30	Pass
	157	5785	10.36	0	10.36		Pass
	165	5825	11.68	0	11.68		Pass
11N20 SISO	149	5745	10.54	0	10.54	30	Pass
	157	5785	12.84	0	12.84		Pass
	165	5825	11.45	0	11.45		Pass
11N40 SISO	151	5755	10.74	0	10.74	30	Pass
	159	5795	9.58	0	9.58		Pass
11AC20 SISO	149	5745	10.46	0	10.46	30	Pass
	157	5785	10.44	0	10.44		Pass
	165	5825	9.56	0	9.56		Pass
11AC40 SISO	151	5755	10.46	0	10.46	30	Pass
	159	5795	10.39	0	10.39		Pass
11AC80 SISO	155	5775	10.22	0	10.22	30	Pass

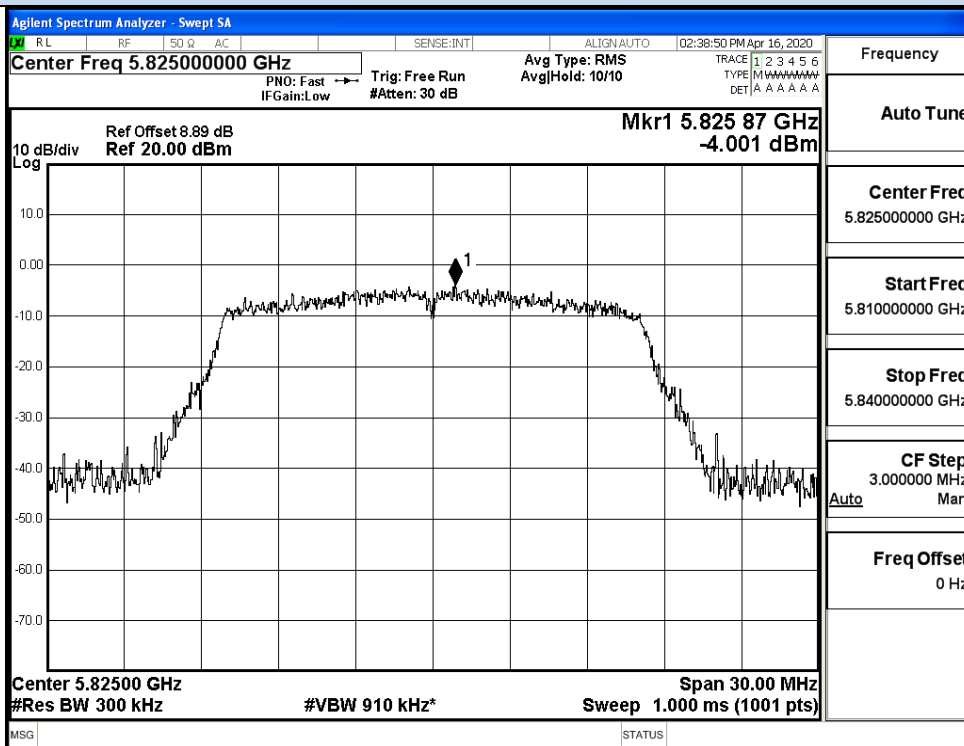
### E.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-4.52	0	2.218	-2.31	30	Pass
	157	5785	-3.60	0	2.218	-1.39		Pass
	165	5825	-4.00	0	2.218	-1.78		Pass
11N20 SISO	149	5745	-4.69	0	2.218	-2.47	30	Pass
	157	5785	-4.42	0	2.218	-2.21		Pass
	165	5825	-3.95	0	2.218	-1.73		Pass
11N40 SISO	151	5755	-7.80	0	2.218	-5.58	30	Pass
	159	5795	-6.38	0	2.218	-4.16		Pass
11AC20 SISO	149	5745	-4.00	0	2.218	-1.78	30	Pass
	157	5785	-4.49	0	2.218	-2.27		Pass
	165	5825	-3.69	0	2.218	-1.47		Pass
11AC40 SISO	151	5755	-7.51	0	2.218	-5.29	30	Pass
	159	5795	-7.05	0	2.218	-4.83		Pass
11AC80 SISO	155	5775	-10.91	0	2.218	-8.69	30	Pass



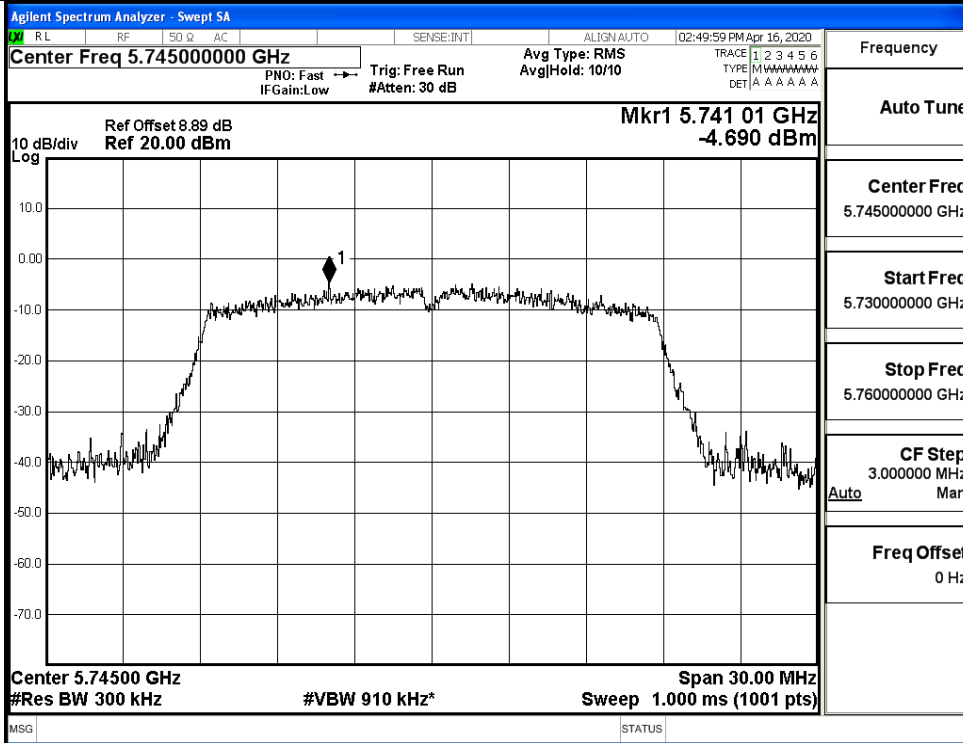


IEEE 802.11na / Channel 157 / 5785MHz

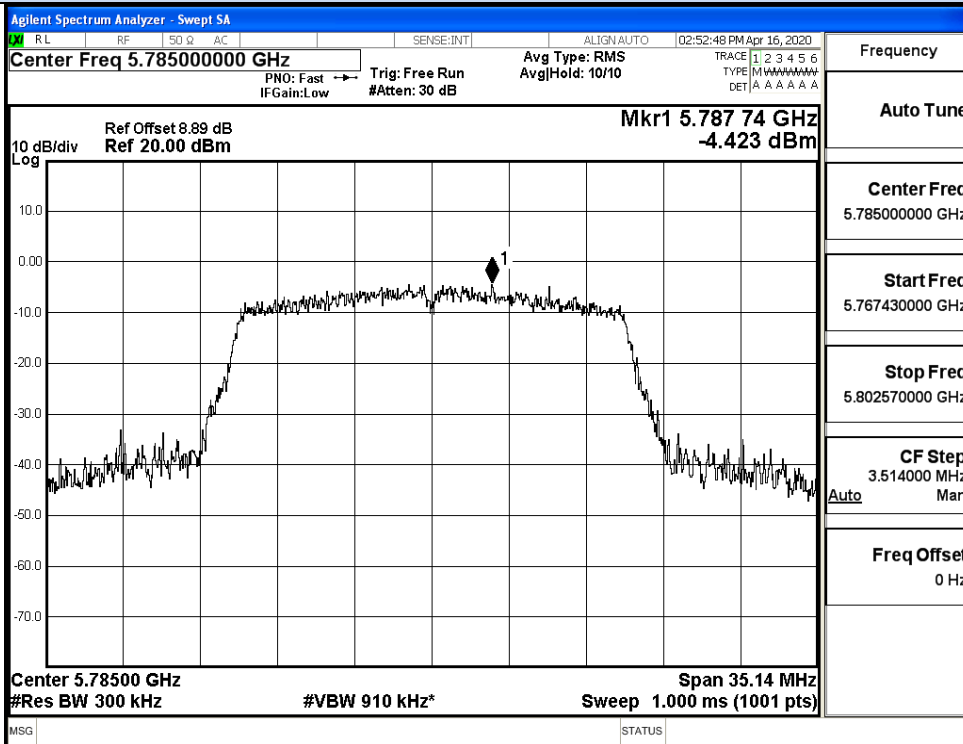


IEEE 802.11na / Channel 165 / 5825MHz

Power Spectral Density

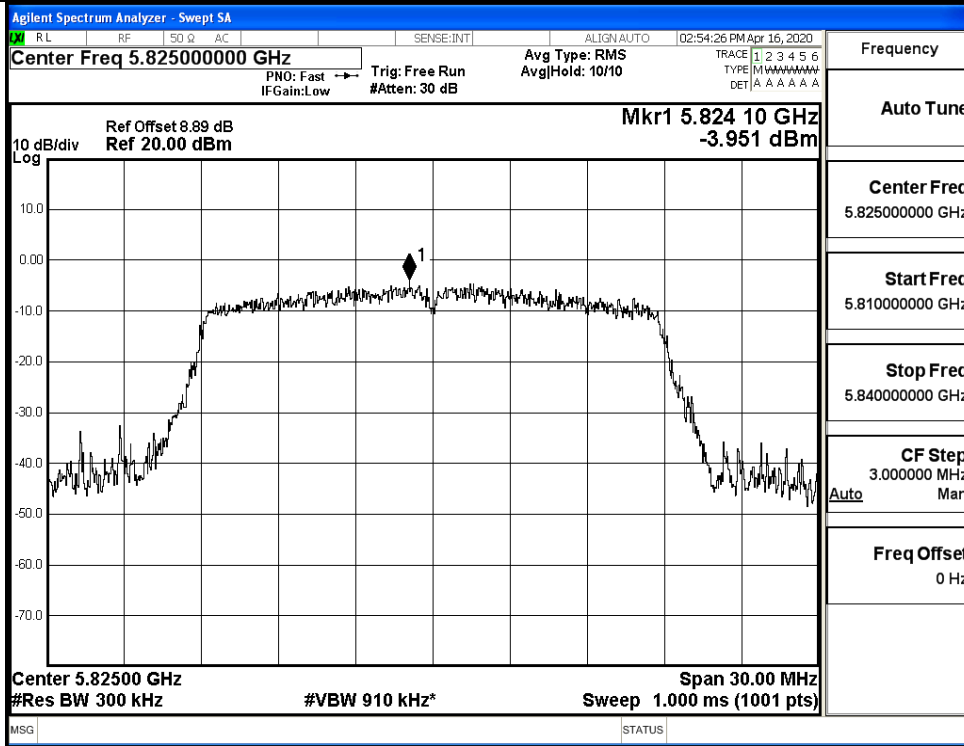


IEEE 802.11n20 / Channel 149 / 5745MHz

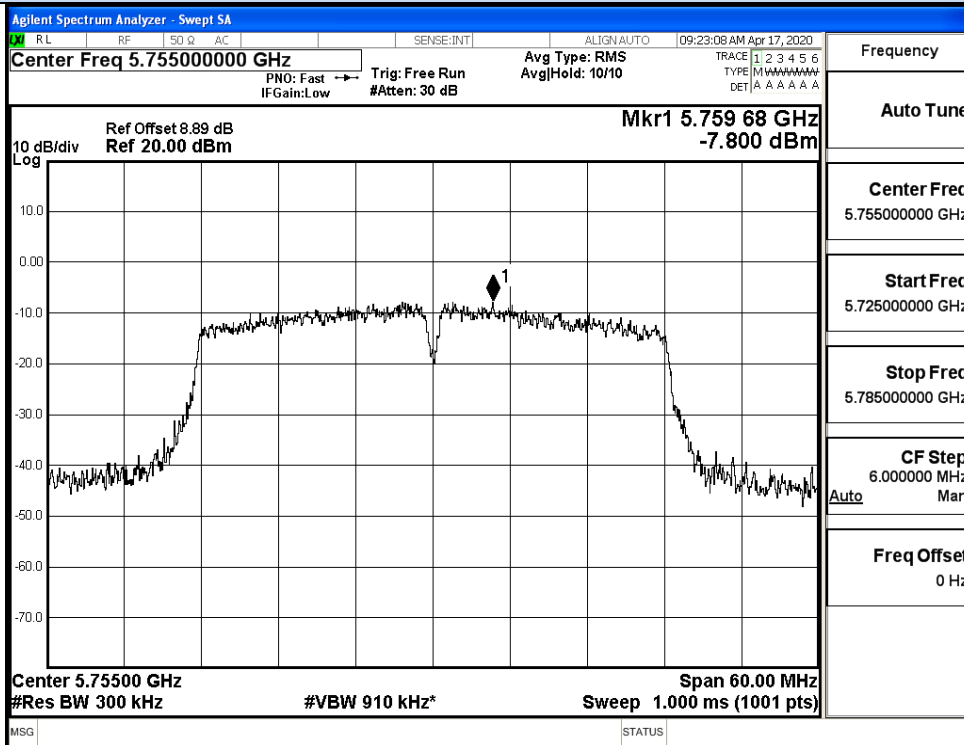


IEEE 802.11n20 / Channel 157 / 5785MHz

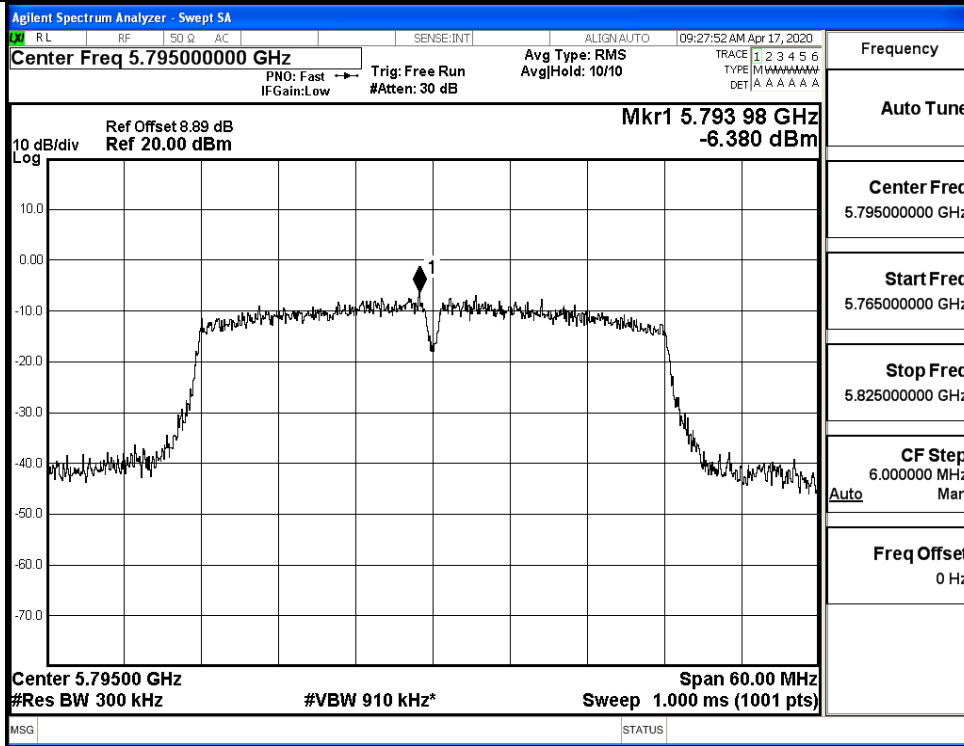




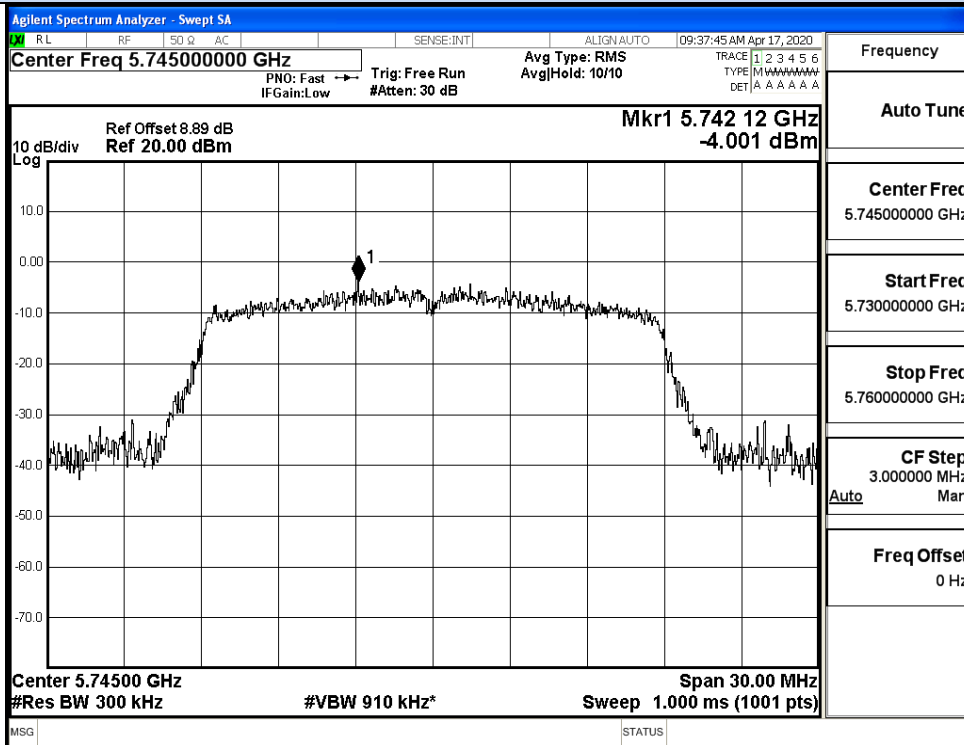
IEEE 802.11n20 / Channel 165 / 5825MHz



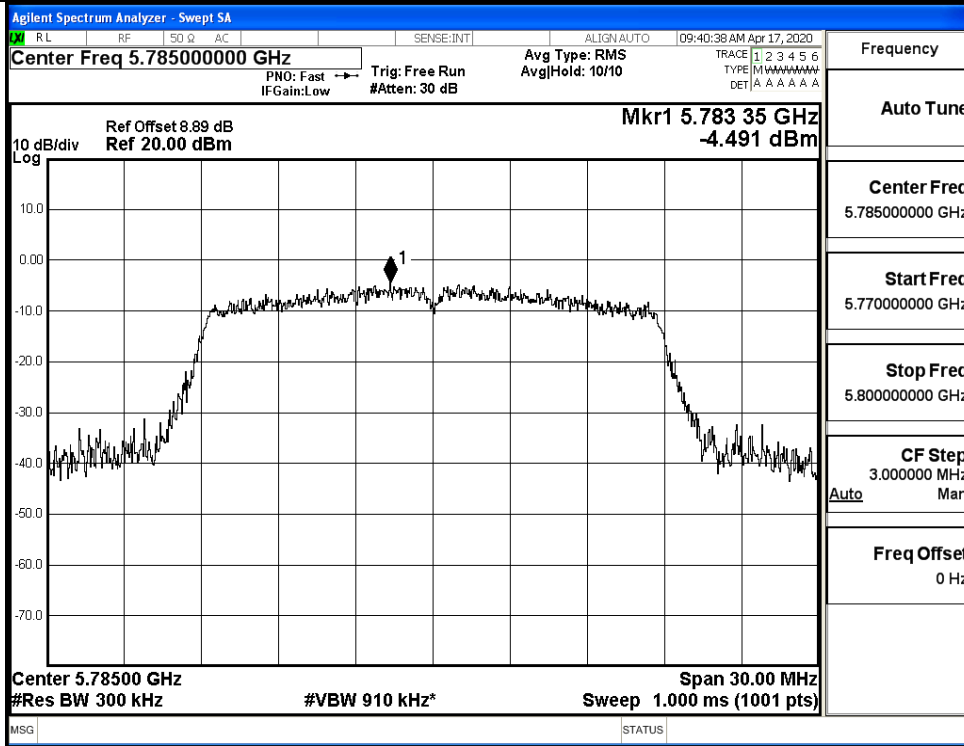
IEEE 802.11n40 / Channel 151 / 5755MHz



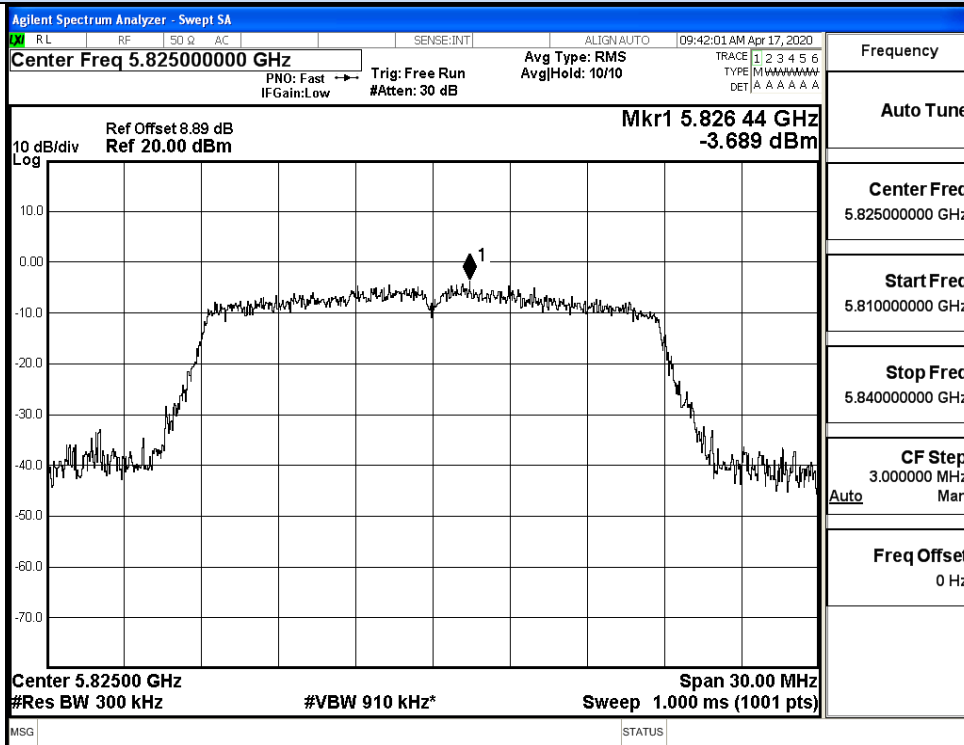
IEEE 802.11n40 / Channel 159 / 5795MHz



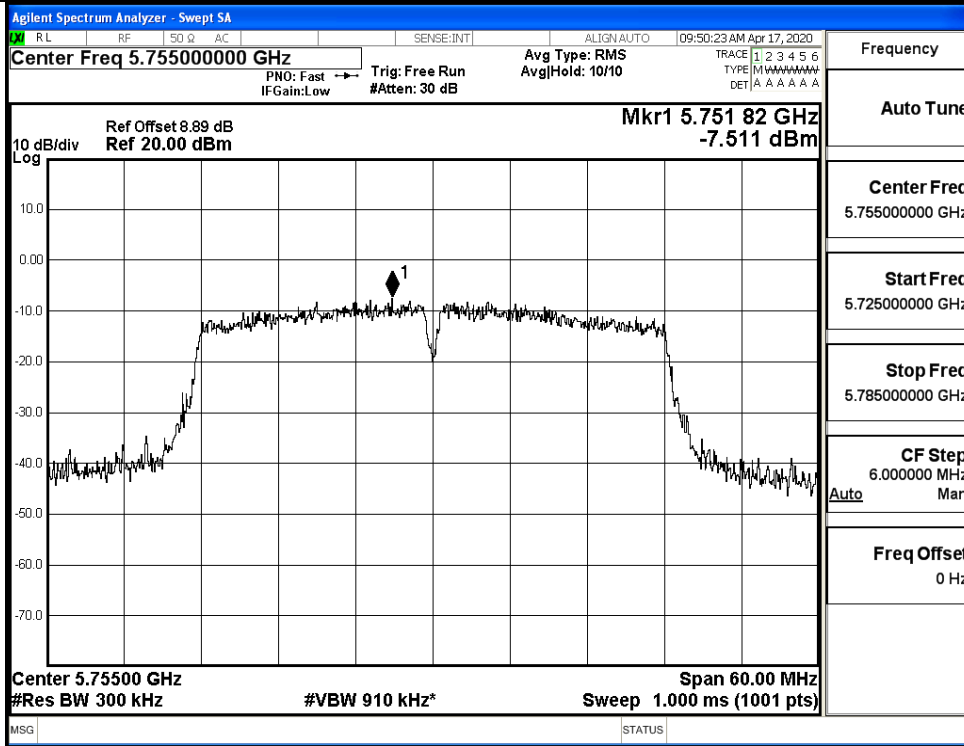
IEEE 802.11ac20 / Channel 149 / 5745MHz



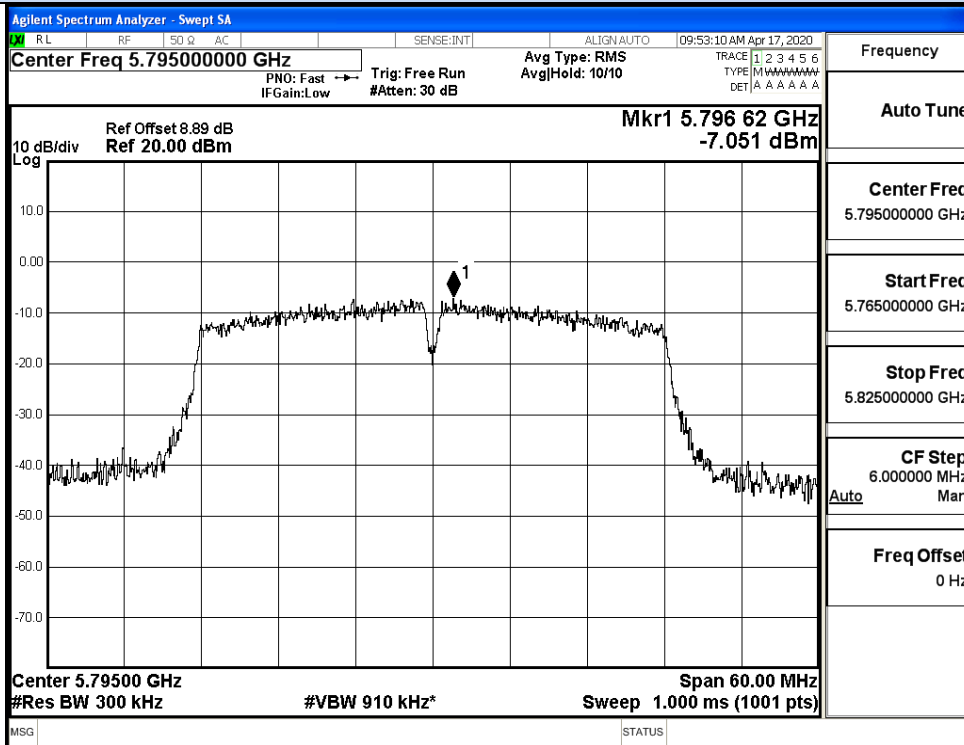
IEEE 802.11ac20 / Channel 157 / 5785MHz



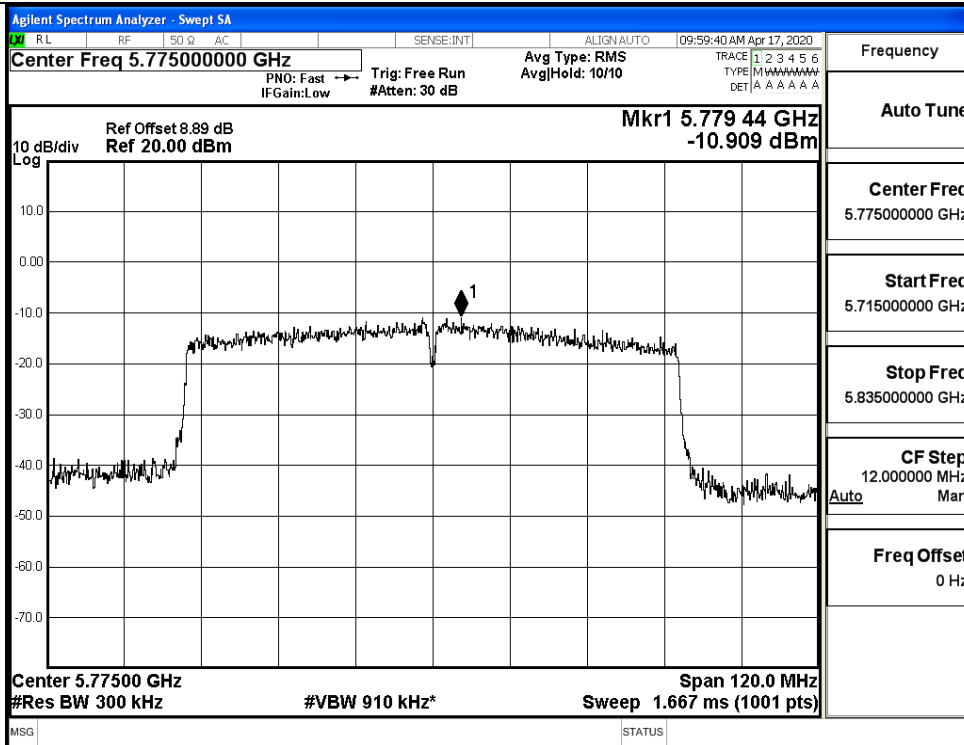
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



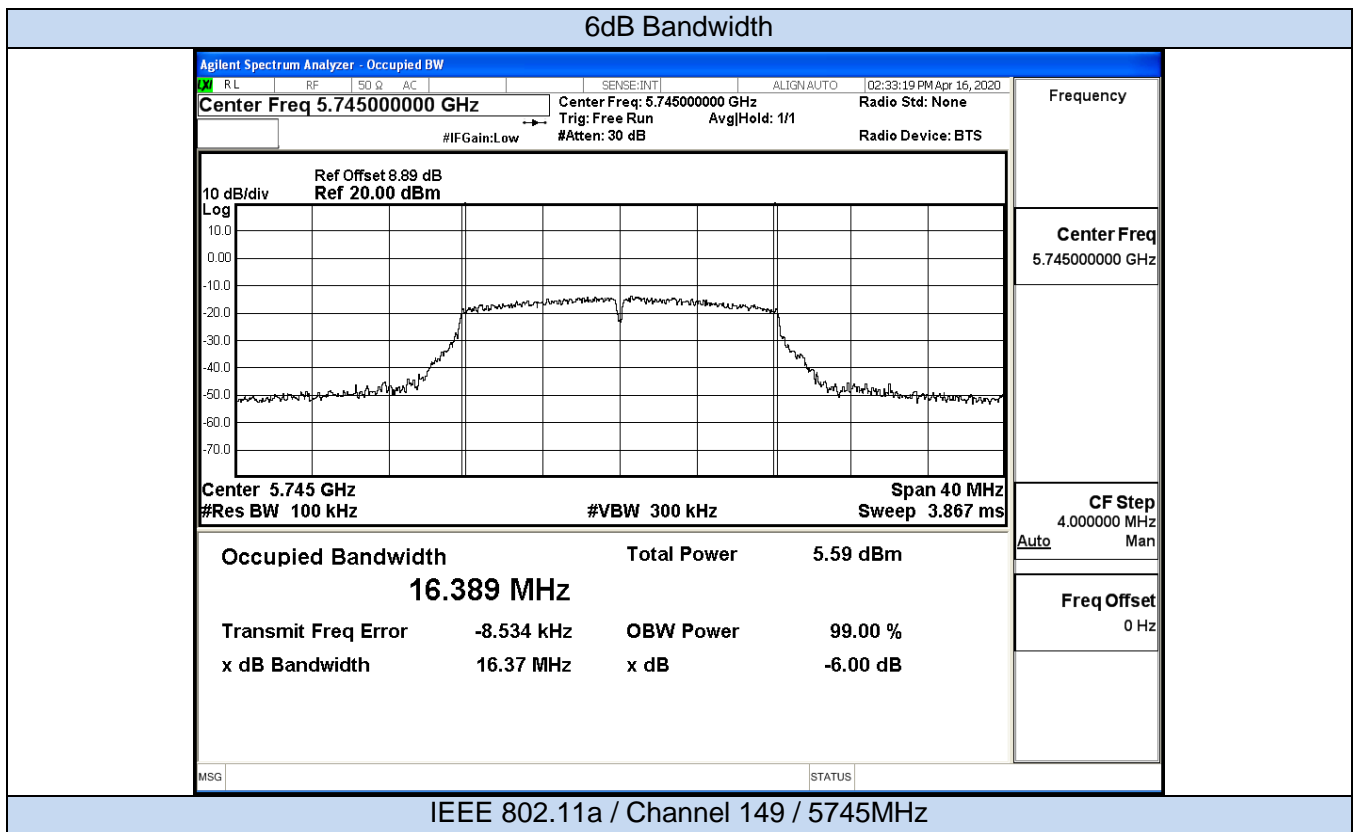
IEEE 802.11ac40 / Channel 159 / 5795MHz

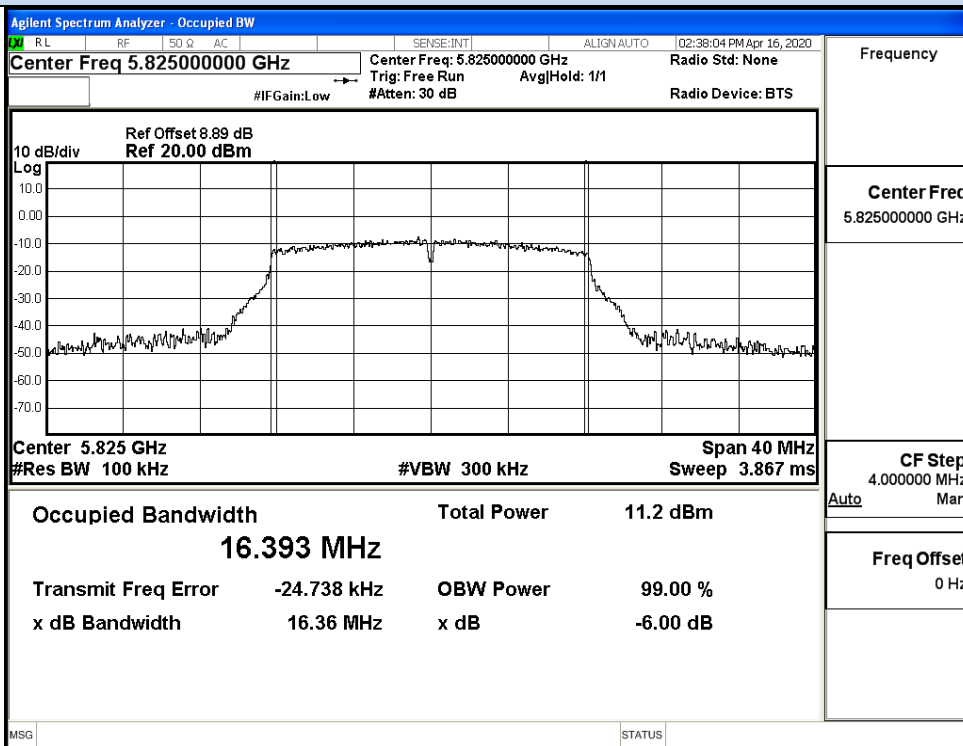
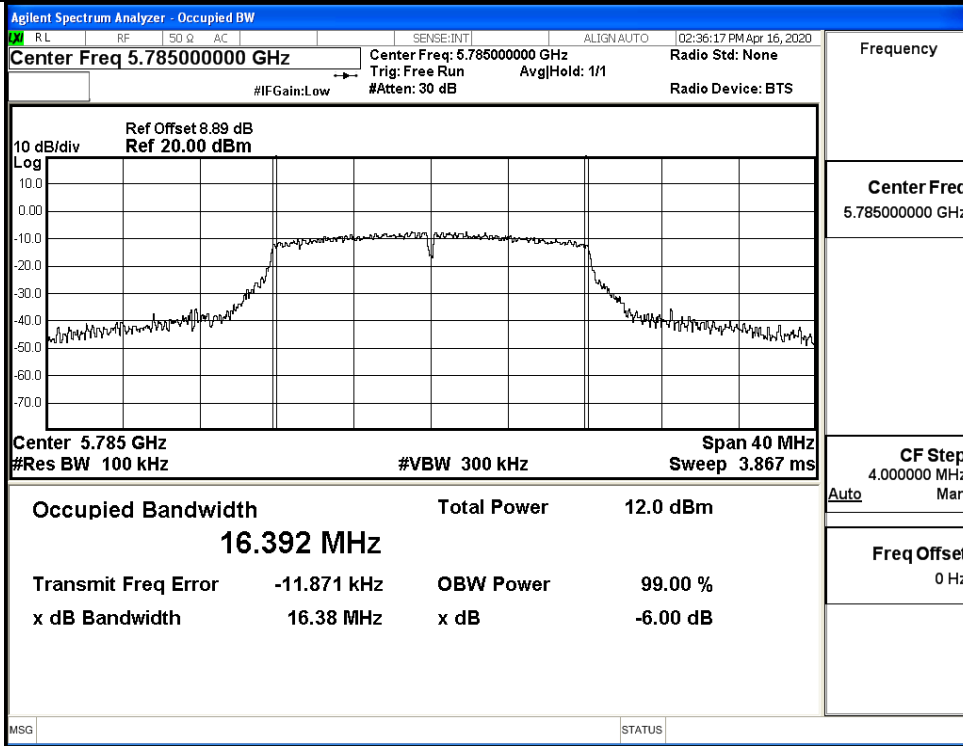


IEEE 802.11ac80 / Channel 155/ 5775MHz

### E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	149	5745	16.37	>=0.5	Pass
	157	5785	16.38		Pass
	165	5825	16.36		Pass
11N20 SISO	149	5745	17.58	>=0.5	Pass
	157	5785	17.57		Pass
	165	5825	17.61		Pass
11N40 SISO	151	5755	36.12	>=0.5	Pass
	159	5795	35.76		Pass
11AC20S ISO	149	5745	17.62	>=0.5	Pass
	157	5785	17.60		Pass
	165	5825	17.56		Pass
11AC40S ISO	151	5755	36.12	>=0.5	Pass
	159	5795	35.95		Pass
11AC80S ISO	155	5775	76.30	>=0.5	Pass





6dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	02:48:38 PM Apr 16, 2020
Center Freq 5.74500000 GHz				Center Freq: 5.745000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IF Gain: Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

Ref Offset 8.89 dB  
Ref 20.00 dBm

Center 5.745 GHz      Span 40 MHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 3.867 ms

Occupied Bandwidth	Total Power	6.22 dBm
<b>17.576 MHz</b>		
Transmit Freq Error	-8.803 kHz	OBW Power 99.00 %
x dB Bandwidth	17.58 MHz	x dB -6.00 dB

MSG      STATUS

IEEE 802.11n20 / Channel 149 / 5745MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	02:51:38 PM Apr 16, 2020
Center Freq 5.78500000 GHz				Center Freq: 5.785000000 GHz	Trig: Free Run	Avg/Hold: >1/1
#IF Gain: Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

Ref Offset 8.89 dB  
Ref 20.00 dBm

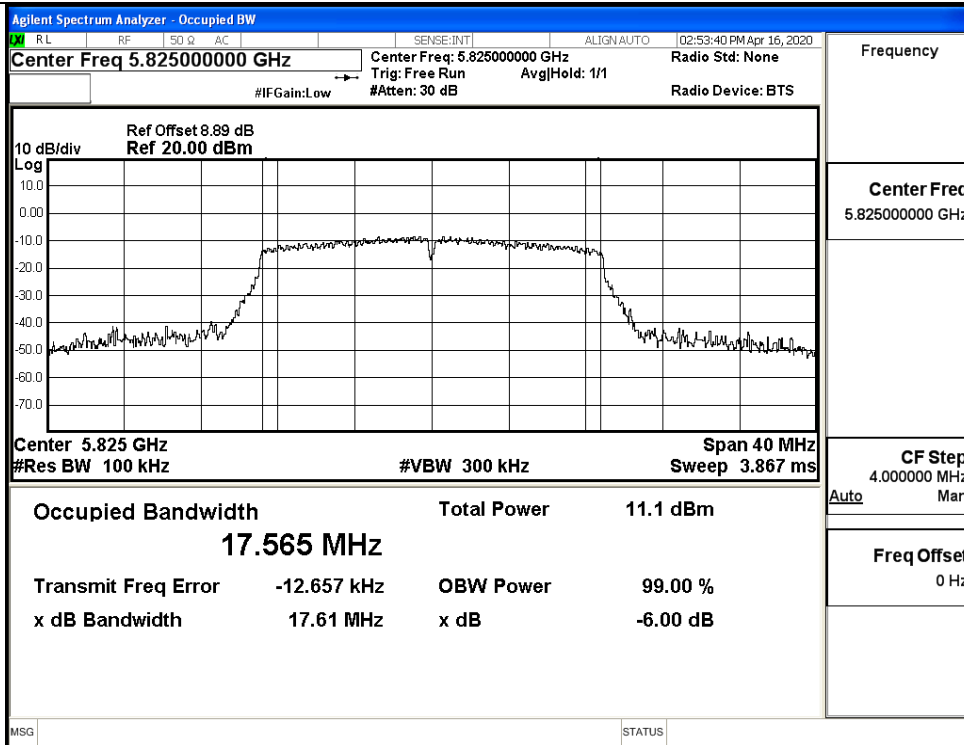
Center 5.785 GHz      Span 40 MHz  
#Res BW 100 kHz      #VBW 300 kHz      Sweep 3.867 ms

Occupied Bandwidth	Total Power	11.8 dBm
<b>17.565 MHz</b>		
Transmit Freq Error	-9.562 kHz	OBW Power 99.00 %
x dB Bandwidth	17.57 MHz	x dB -6.00 dB

MSG      STATUS

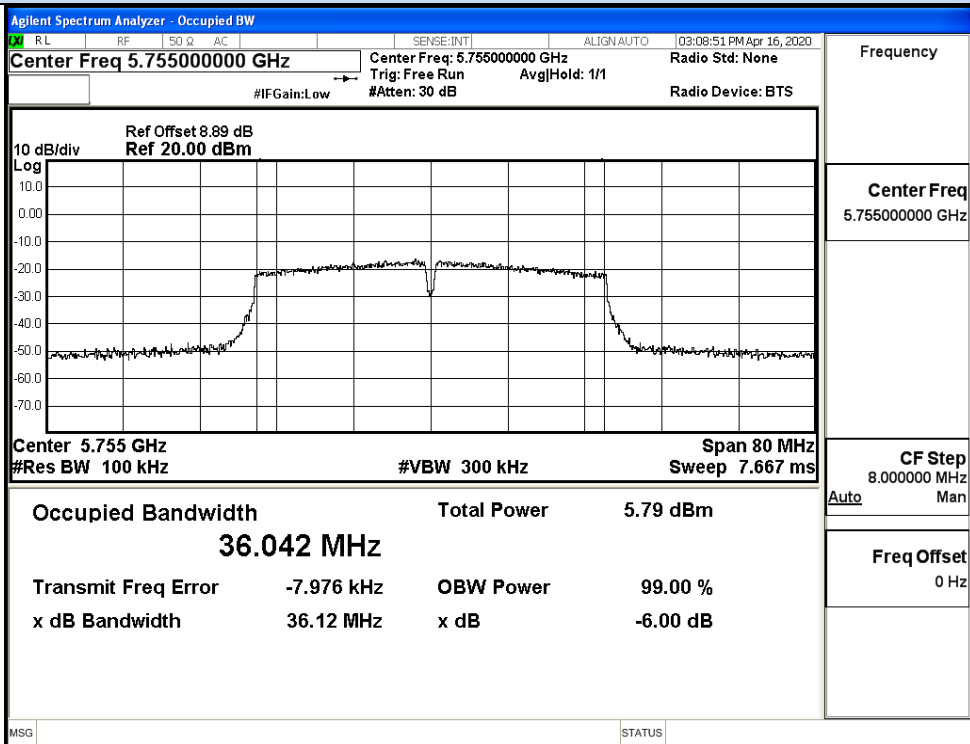
IEEE 802.11n20 / Channel 157 / 5785MHz



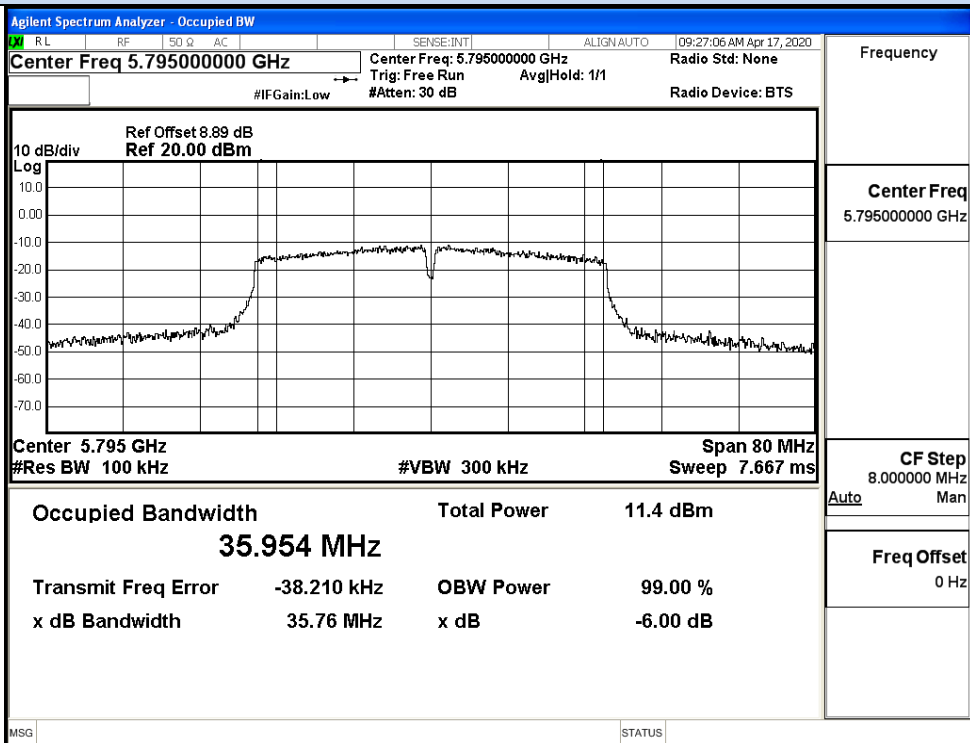


IEEE 802.11n20 / Channel 165 / 5825MHz

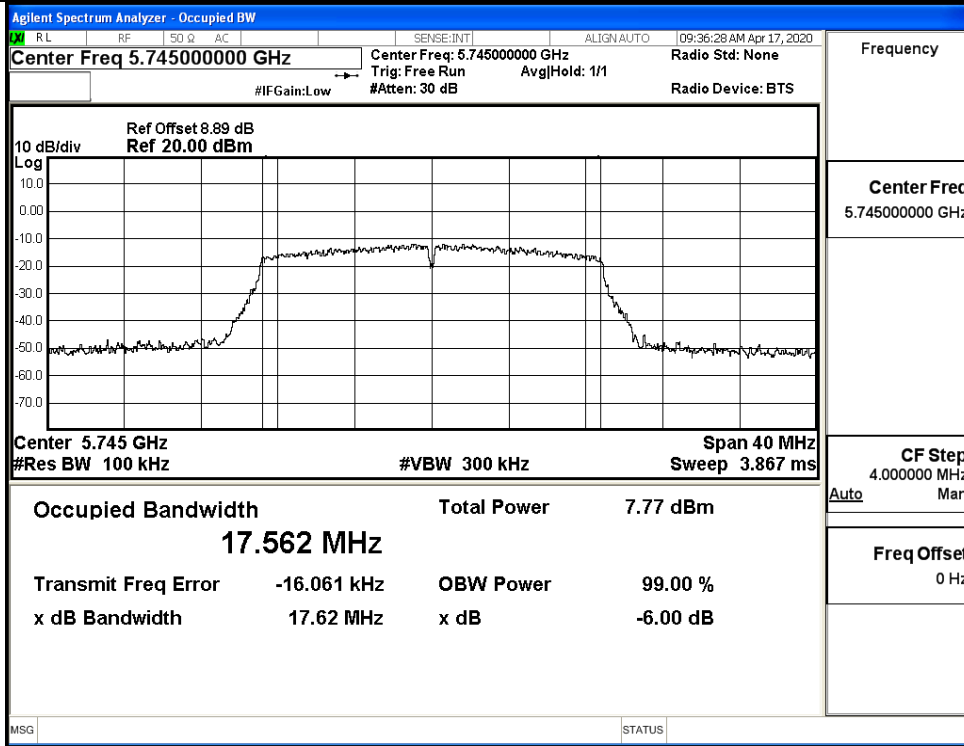
26dB Bandwidth



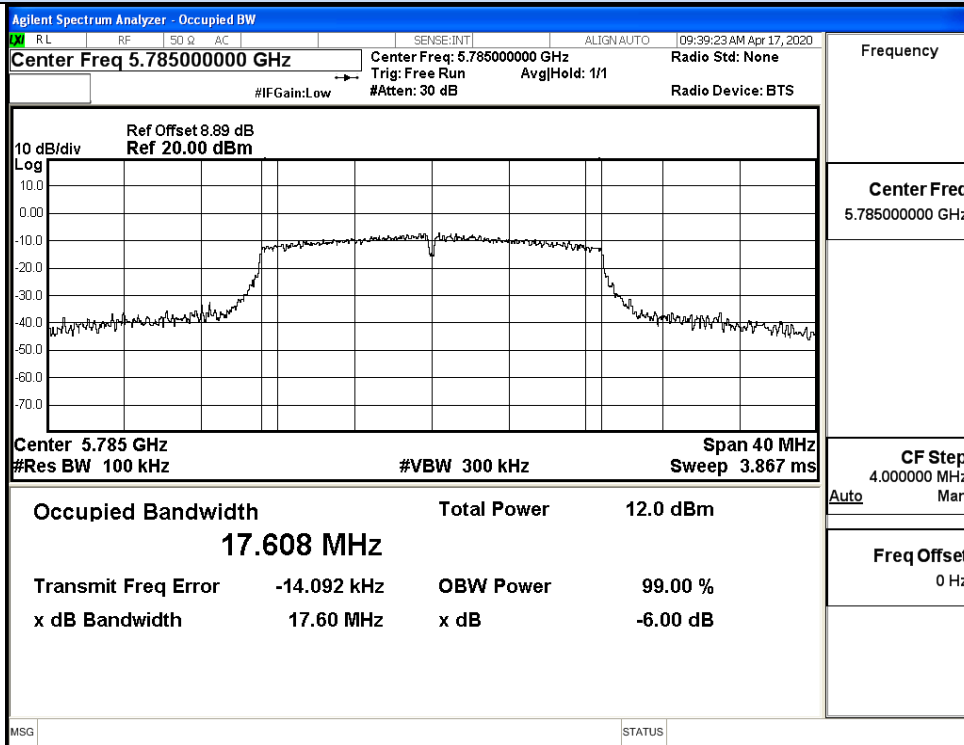
IEEE 802.11n40 / Channel 151 / 5755MHz



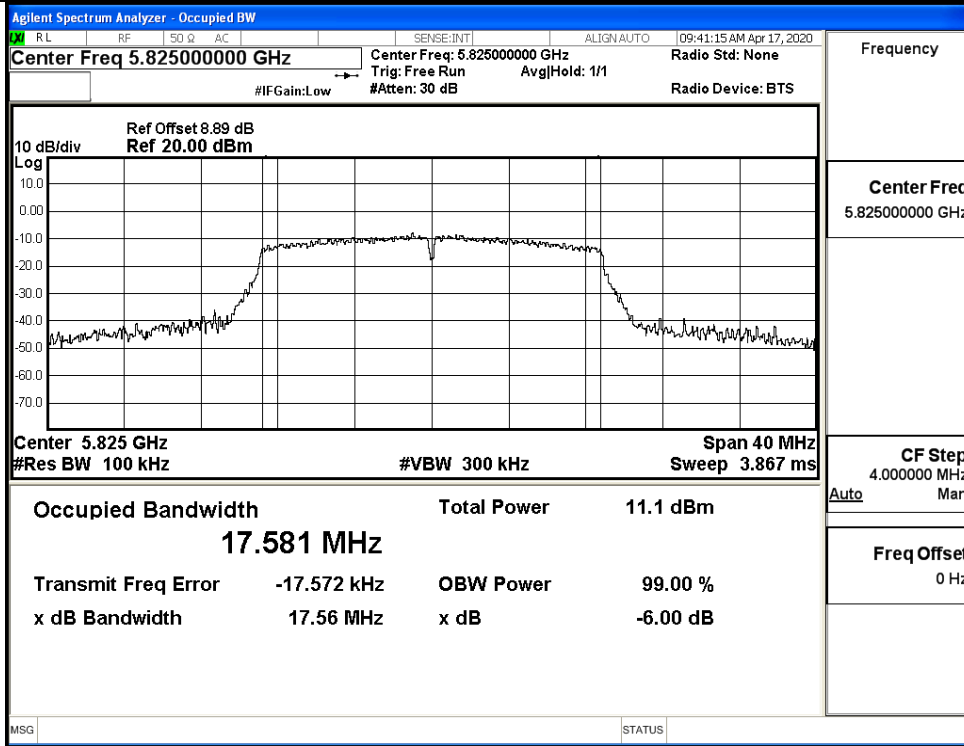
IEEE 802.11n40 / Channel 159 / 5795MHz



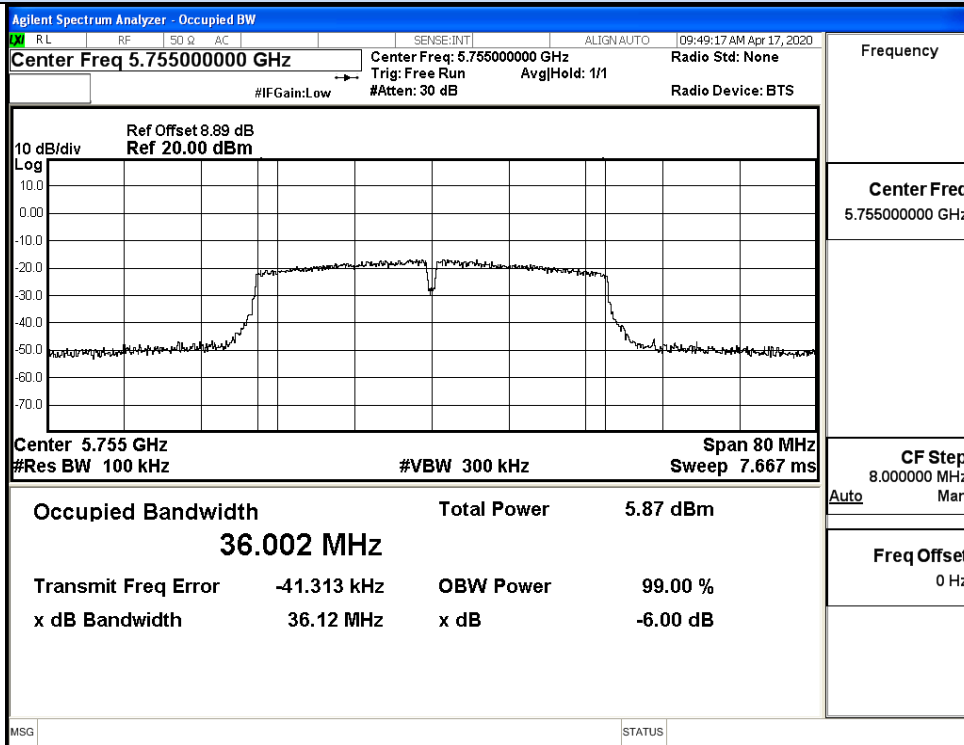
IEEE 802.11ac20 / Channel 149 / 5745MHz



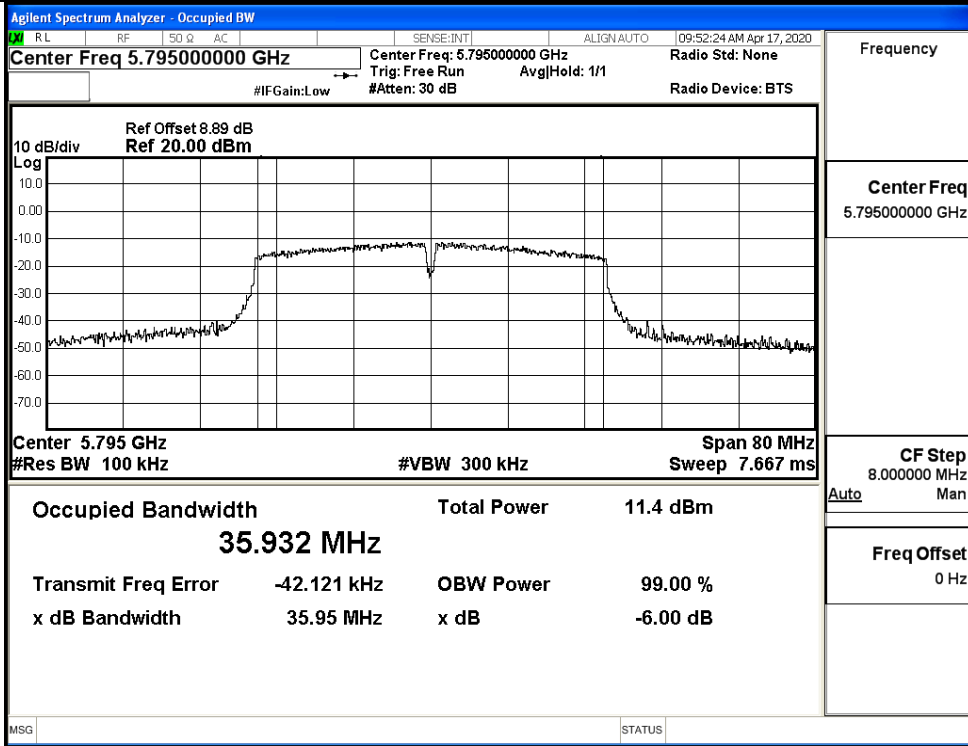
IEEE 802.11ac20 / Channel 157 / 5785MHz



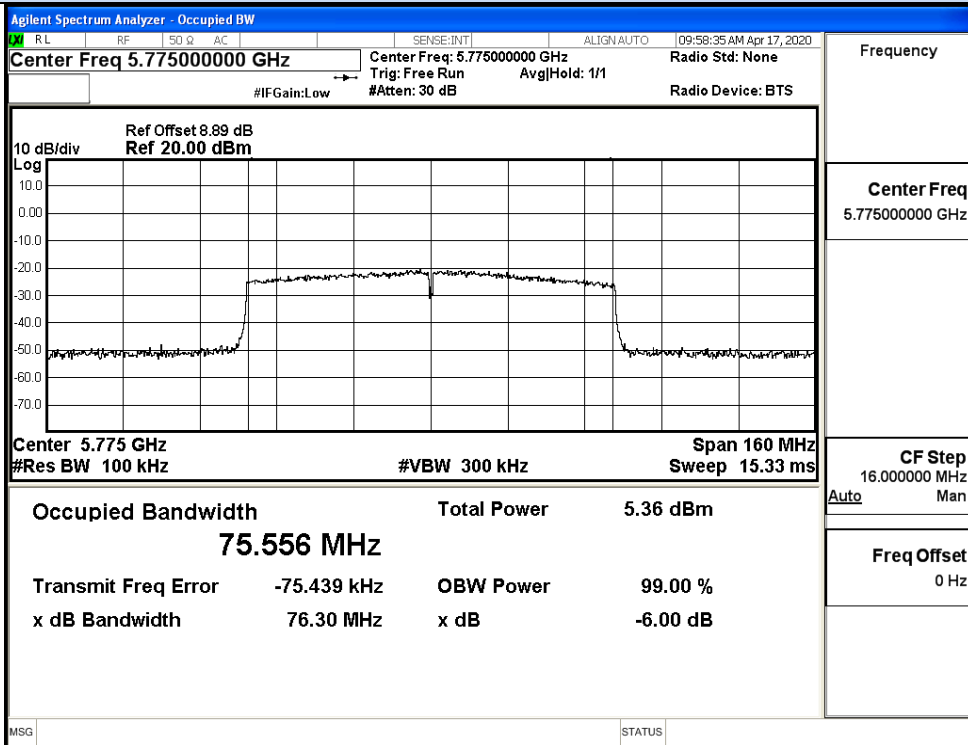
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



IEEE 802.11ac40 / Channel 159 / 5795MHz



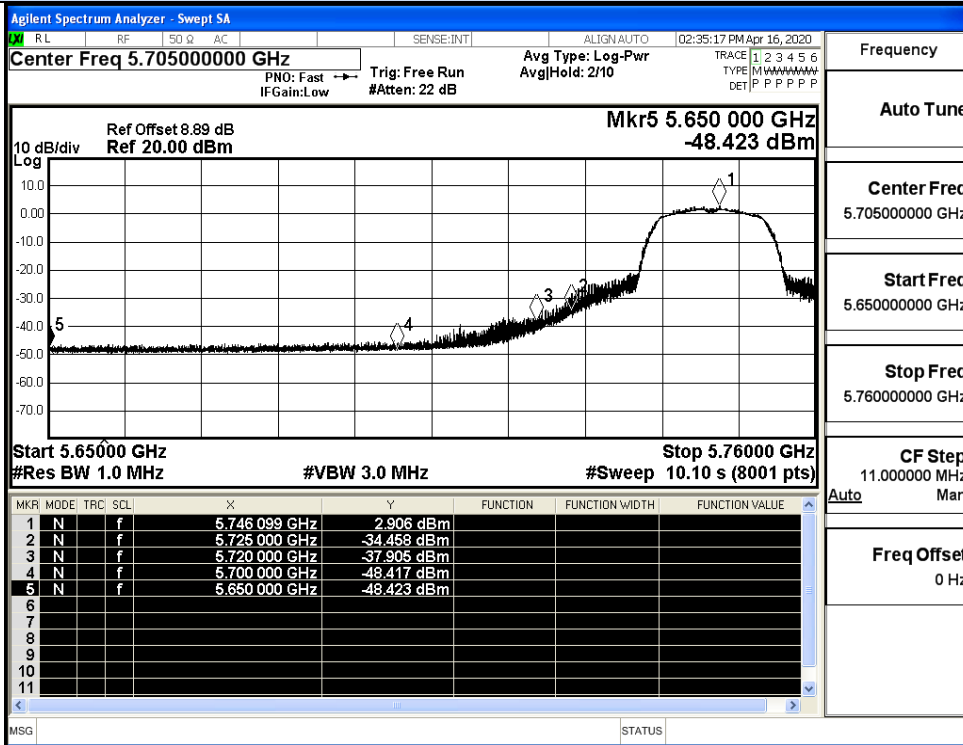
IEEE 802.11ac80 / Channel 155 / 5775MHz

### E.5 Undesirable Emissions Measurement

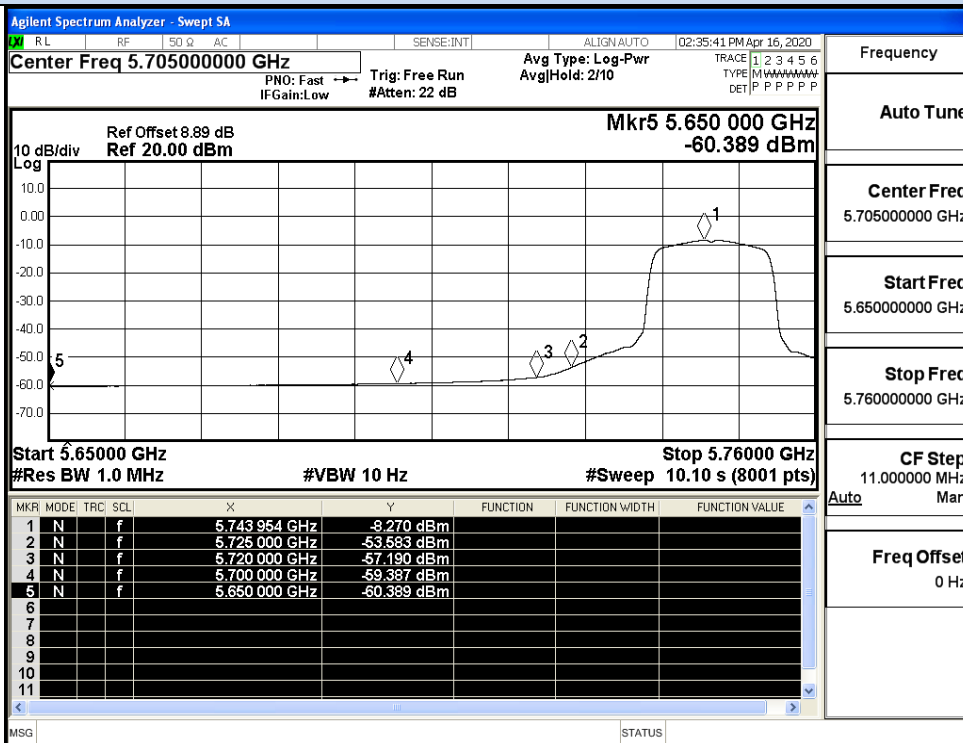
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11A	149	5650.0	-48.42	2.00	-46.42	Peak	-27.0	Pass
		5650.0	-60.39	2.00	-58.39	Average	-27.0	Pass
		5700.0	-48.42	2.00	-46.42	Peak	10	Pass
		5700.0	-59.39	2.00	-57.39	Average	10	Pass
		5720.0	-37.91	2.00	-35.91	Peak	15.6	Pass
		5720.0	-57.19	2.00	-55.19	Average	15.6	Pass
		5725.0	-34.46	2.00	-32.46	Peak	27.0	Pass
	5725.0	-53.58	2.00	-51.58	Average	27.0	Pass	
	165	5850.0	-39.57	2.00	-37.57	Peak	27.0	Pass
		5850.0	-57.47	2.00	-55.47	Average	27.0	Pass
		5855.0	-43.31	2.00	-41.31	Peak	15.6	Pass
		5855.0	-58.22	2.00	-56.22	Average	15.6	Pass
		5875.0	-47.53	2.00	-45.53	Peak	10	Pass
		5875.0	-59.68	2.00	-57.68	Average	10	Pass
5925.0		-48.10	2.00	-46.10	Peak	-27.0	Pass	
5925.0	-60.47	2.00	-58.47	Average	-27.0	Pass		
11N20 SISO	149	5650.0	-48.92	2.00	-46.92	Peak	-27.0	Pass
		5650.0	-60.41	2.00	-58.41	Average	-27.0	Pass
		5700.0	-47.27	2.00	-45.27	Peak	10	Pass
		5700.0	-56.53	2.00	-54.53	Average	10	Pass
		5720.0	-37.99	2.00	-35.99	Peak	15.6	Pass
		5720.0	-59.27	2.00	-57.27	Average	15.6	Pass
		5725.0	-32.60	2.00	-30.60	Peak	27.0	Pass
	5725.0	-52.16	2.00	-50.16	Average	27.0	Pass	
	165	5850.0	-40.50	2.00	-38.50	Peak	27.0	Pass
		5850.0	-57.58	2.00	-55.58	Average	27.0	Pass
		5855.0	-43.69	2.00	-41.69	Peak	15.6	Pass
		5855.0	-58.36	2.00	-56.36	Average	15.6	Pass
		5875.0	-48.44	2.00	-46.44	Peak	10	Pass
		5875.0	-59.69	2.00	-57.69	Average	10	Pass
5925.0		-48.54	2.00	-46.54	Peak	-27.0	Pass	
5925.0	-60.42	2.00	-58.42	Average	-27.0	Pass		
11N40 SISO	151	5650.0	-48.33	2.00	-46.33	Peak	-27.0	Pass
		5650.0	-60.18	2.00	-58.18	Average	-27.0	Pass
		5700.0	-41.52	2.00	-39.52	Peak	10	Pass
		5700.0	-56.77	2.00	-54.77	Average	10	Pass
		5720.0	-35.14	2.00	-33.14	Peak	15.6	Pass
		5720.0	-50.32	2.00	-48.32	Average	15.6	Pass
		5725.0	-31.85	2.00	-29.85	Peak	27.0	Pass
	5725.0	-48.94	2.00	-46.94	Average	27.0	Pass	
	159	5850.0	-43.75	2.00	-41.75	Peak	27.0	Pass
		5850.0	-56.74	2.00	-54.74	Average	27.0	Pass
		5855.0	-45.44	2.00	-43.44	Peak	15.6	Pass
		5855.0	-57.65	2.00	-55.65	Average	15.6	Pass
		5875.0	-48.51	2.00	-46.51	Peak	10	Pass
		5875.0	-59.32	2.00	-57.32	Average	10	Pass
5925.0		-48.81	2.00	-46.81	Peak	-27.0	Pass	
5925.0	-60.24	2.00	-58.24	Average	-27.0	Pass		
11AC20 SISO	149	5650.0	-47.85	2.00	-45.85	Peak	-27.0	Pass
		5650.0	-60.50	2.00	-58.50	Average	-27.0	Pass
		5700.0	-46.54	2.00	-44.54	Peak	10	Pass
		5700.0	-54.53	2.00	-52.53	Average	10	Pass
		5720.0	-37.47	2.00	-35.47	Peak	15.6	Pass
		5720.0	-59.14	2.00	-57.14	Average	15.6	Pass
		5725.0	-31.84	2.00	-29.84	Peak	27.0	Pass
	5725.0	-50.45	2.00	-48.45	Average	27.0	Pass	
	165	5850.0	-37.72	2.00	-35.72	Peak	27.0	Pass
		5850.0	-56.06	2.00	-54.06	Average	27.0	Pass
		5855.0	-41.76	2.00	-39.76	Peak	15.6	Pass
		5855.0	-57.50	2.00	-55.50	Average	15.6	Pass
		5875.0	-47.73	2.00	-45.73	Peak	10	Pass
		5875.0	-59.42	2.00	-57.42	Average	10	Pass
5925.0		-47.79	2.00	-45.79	Peak	-27.0	Pass	
5925.0	-60.35	2.00	-58.35	Average	-27.0	Pass		
11AC4	151	5650.0	-47.74	2.00	-45.74	Peak	-27.0	Pass

0 SISO		5650.0	-60.21	2.00	-58.21	Average	-27.0	Pass
		5700.0	-40.33	2.00	-38.33	Peak	10	Pass
		5700.0	-56.71	2.00	-54.71	Average	10	Pass
		5720.0	-32.35	2.00	-30.35	Peak	15.6	Pass
		5720.0	-49.02	2.00	-47.02	Average	15.6	Pass
		5725.0	-29.10	2.00	-27.10	Peak	27.0	Pass
		5725.0	-47.43	2.00	-45.43	Average	27.0	Pass
	159	5850.0	-46.06	2.00	-44.06	Peak	27.0	Pass
		5850.0	-58.14	2.00	-56.14	Average	27.0	Pass
		5855.0	-46.15	2.00	-44.15	Peak	15.6	Pass
		5855.0	-58.65	2.00	-56.65	Average	15.6	Pass
		5875.0	-48.69	2.00	-46.69	Peak	10	Pass
		5875.0	-59.48	2.00	-57.48	Average	10	Pass
		5925.0	-47.83	2.00	-45.83	Peak	-27.0	Pass
11AC8 0 SISO	155	5925.0	-60.21	2.00	-58.21	Average	-27.0	Pass
		5725.0	-36.97	2.00	-34.97	Peak	27.0	Pass
		5720.0	-35.08	2.00	-33.08	Peak	15.6	Pass
		5700.0	-32.86	2.00	-30.86	Peak	10	Pass
		5650.0	-46.94	2.00	-44.94	Peak	-27.0	Pass
		5725.0	-44.10	2.00	-42.10	Average	27.0	Pass
		5720.0	-42.60	2.00	-40.60	Average	15.6	Pass
		5700.0	-42.25	2.00	-40.25	Average	10	Pass
		5650.0	-56.02	2.00	-54.02	Average	-27.0	Pass
		5850.0	-39.05	2.00	-37.05	Peak	27.0	Pass
		5855.0	-39.68	2.00	-37.68	Peak	15.6	Pass
		5875.0	-44.85	2.00	-42.85	Peak	10	Pass
		5925.0	-48.48	2.00	-46.48	Peak	-27.0	Pass
		5850.0	-52.95	2.00	-50.95	Average	27.0	Pass
5855.0	-53.46	2.00	-51.46	Average	15.6	Pass		
5875.0	-56.93	2.00	-54.93	Average	10	Pass		
5925.0	-59.60	2.00	-57.60	Average	-27.0	Pass		

Undesirable Emissions Measurement



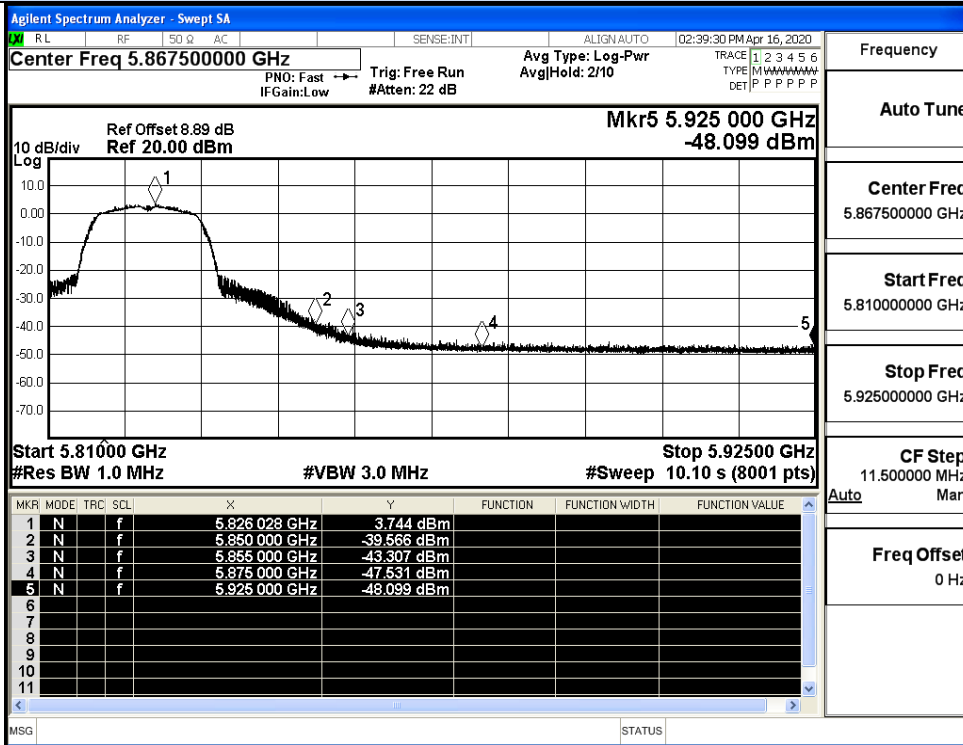
IEEE 802.11a / Channel 149 / 5745MHz / Peak



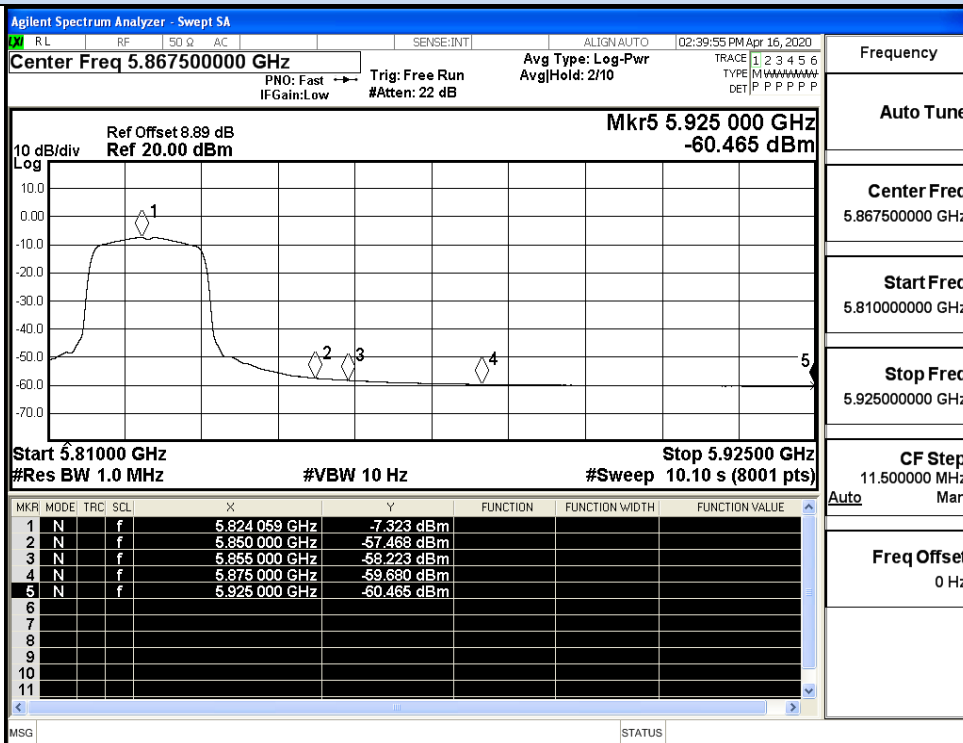
IEEE 802.11a / Channel 148 / 5745MHz / Average



Undesirable Emissions Measurement

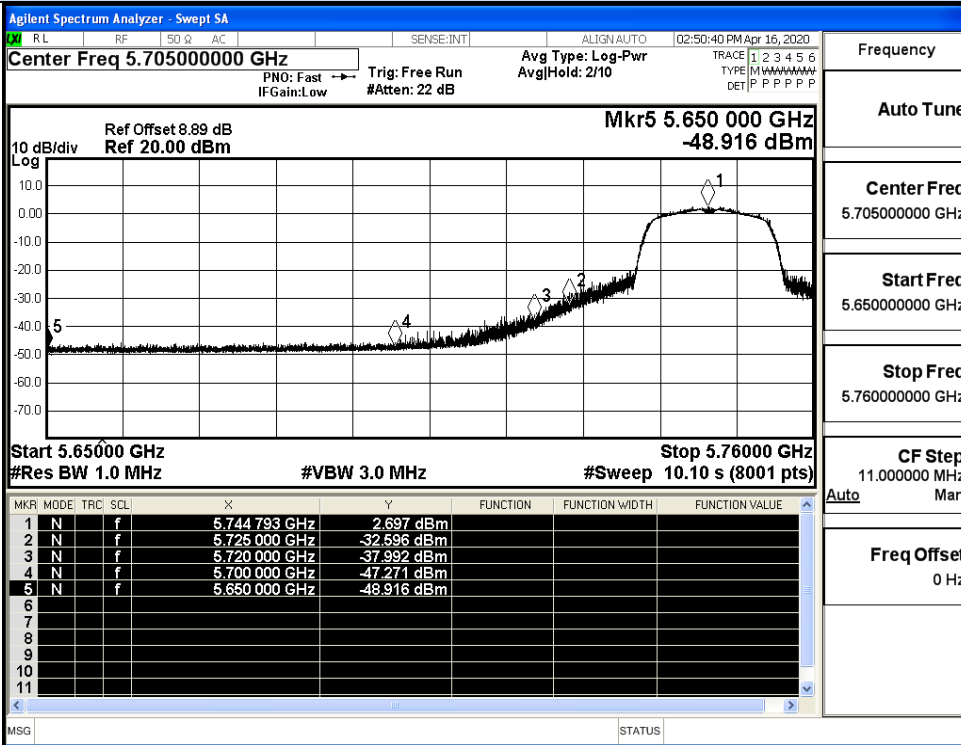


IEEE 802.11a / Channel 165 / 5825MHz / Peak

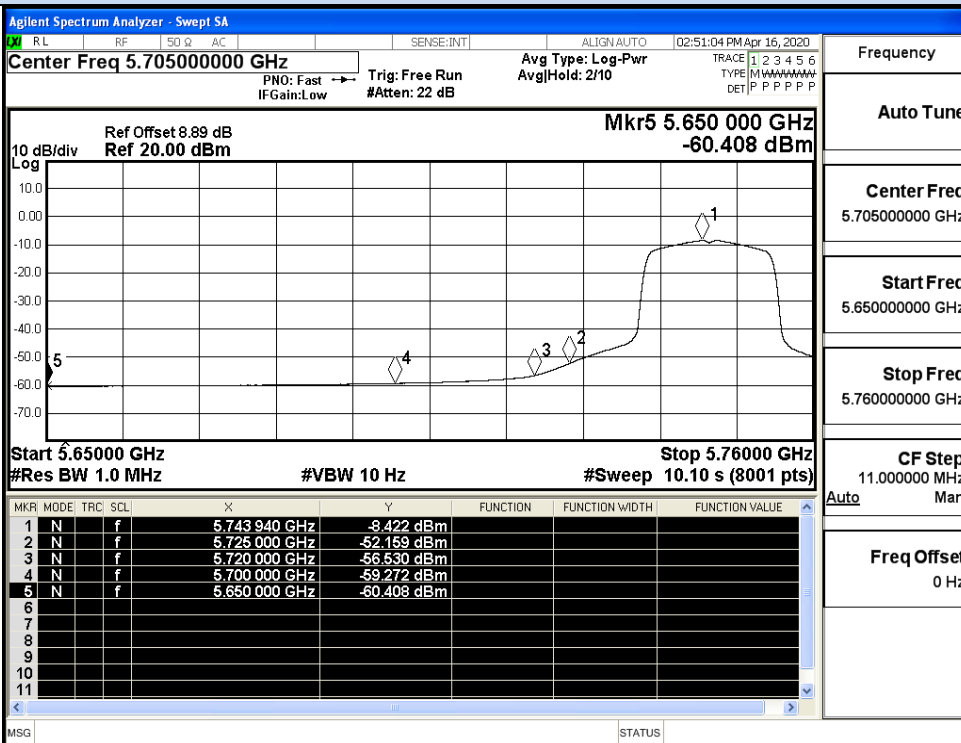


IEEE 802.11a / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

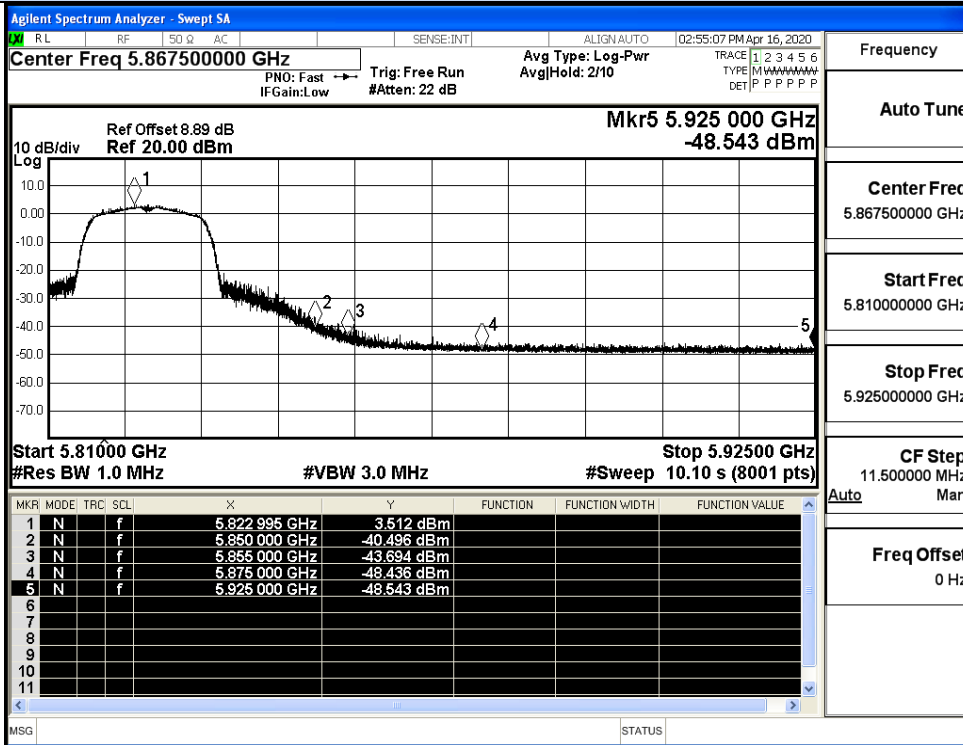


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

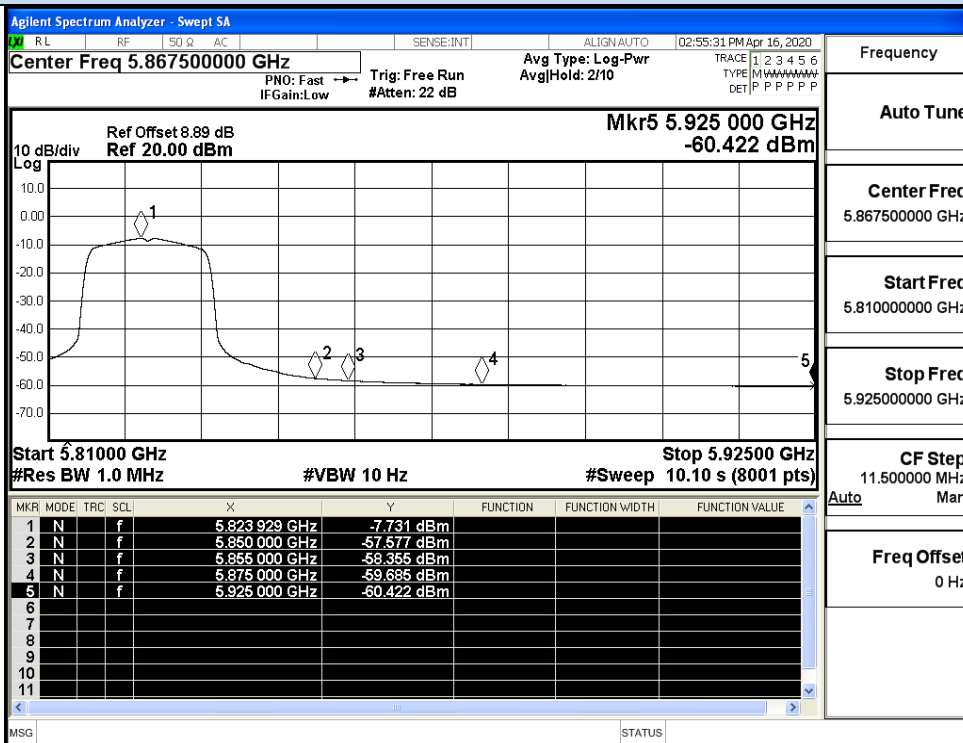


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

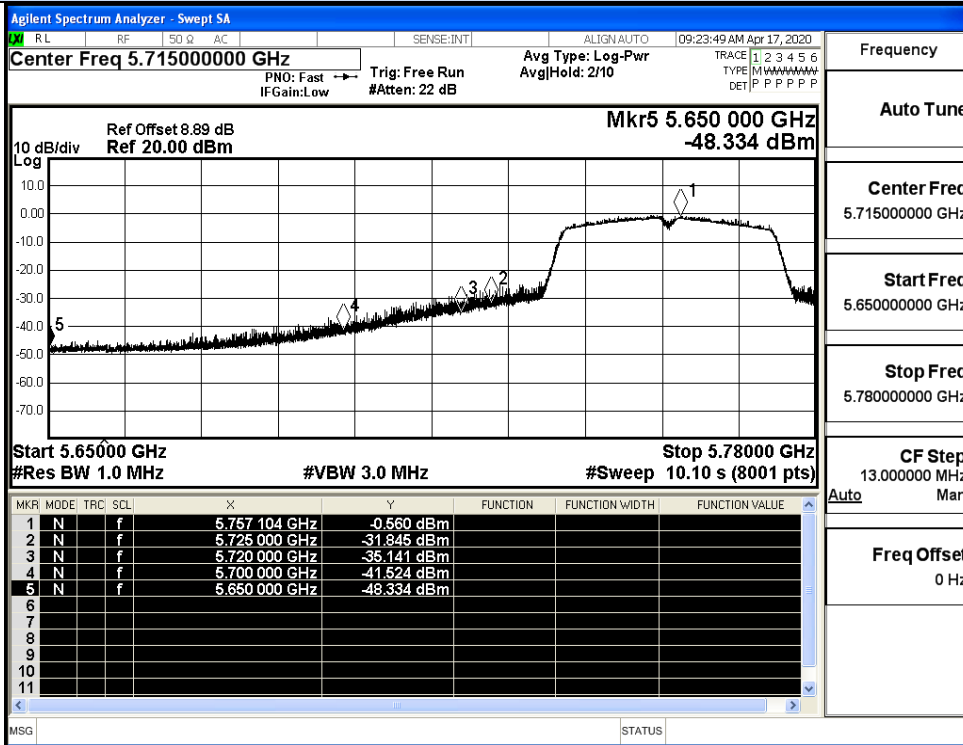


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

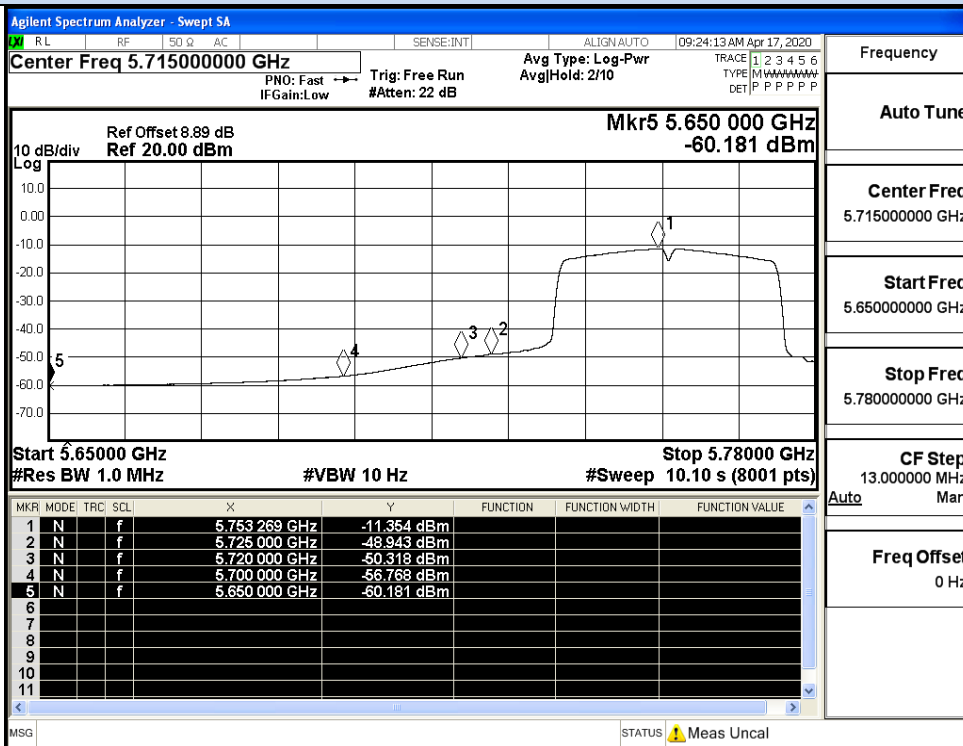


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

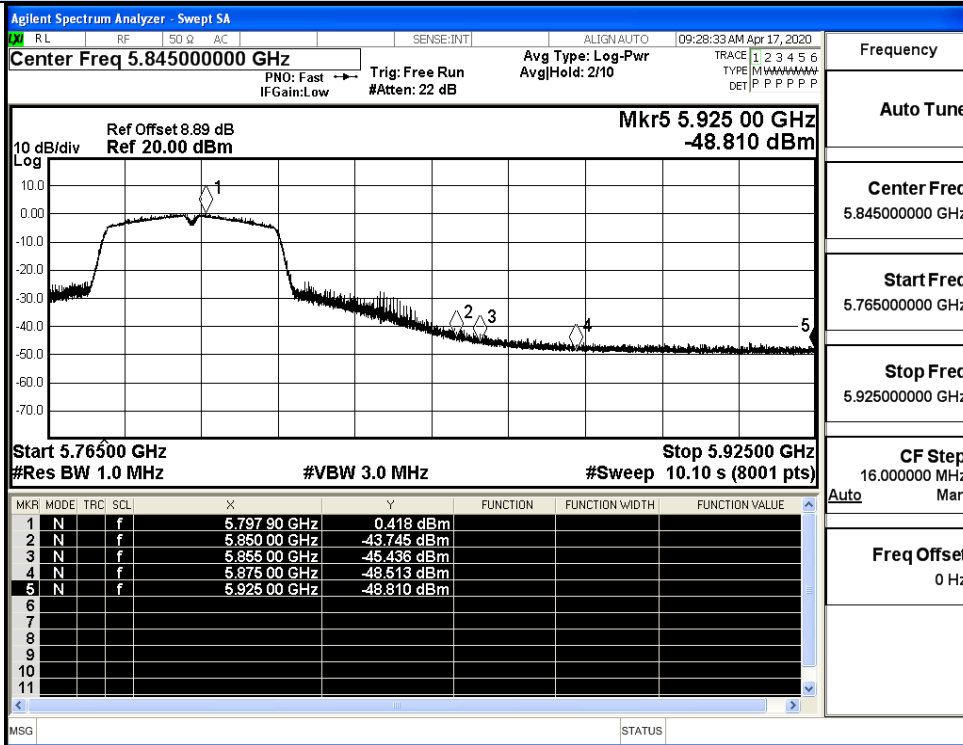


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

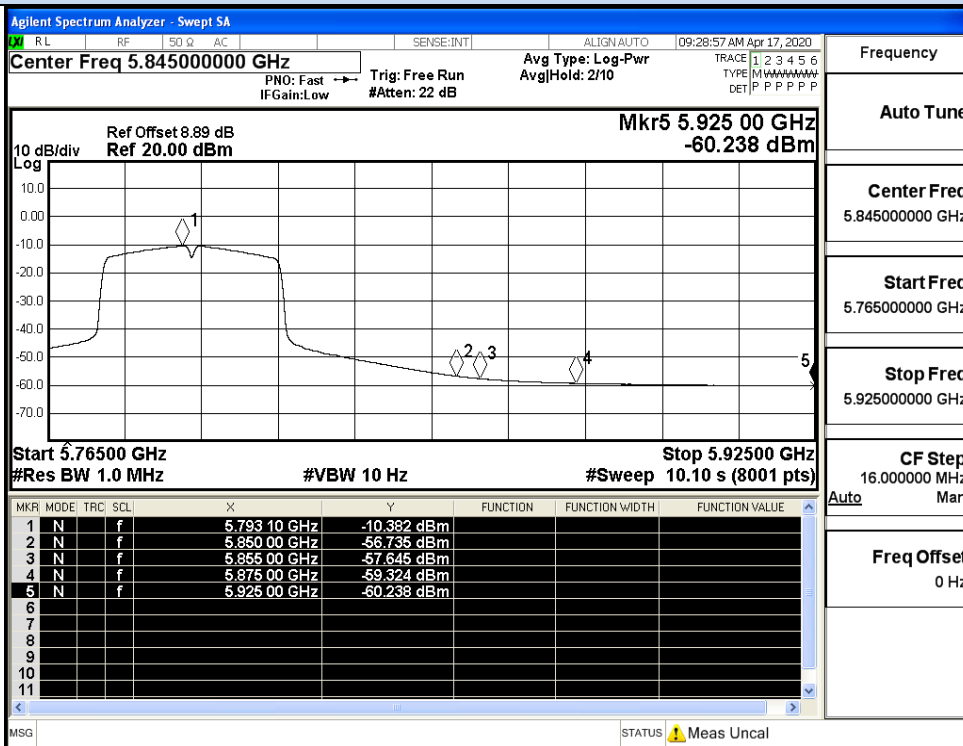


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

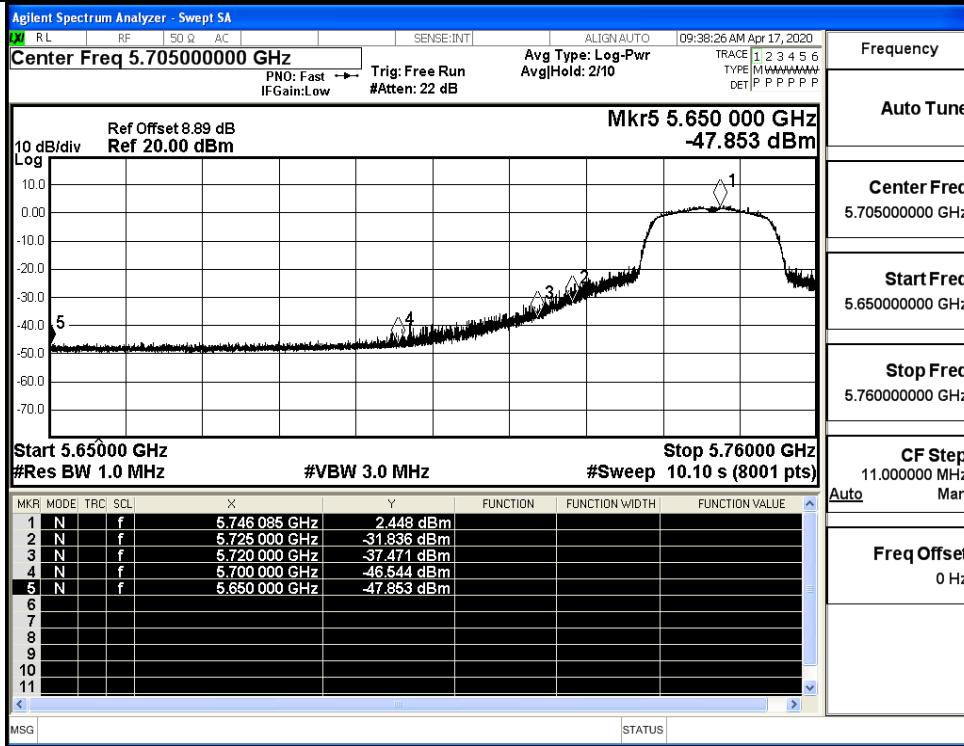
Undesirable Emissions Measurement



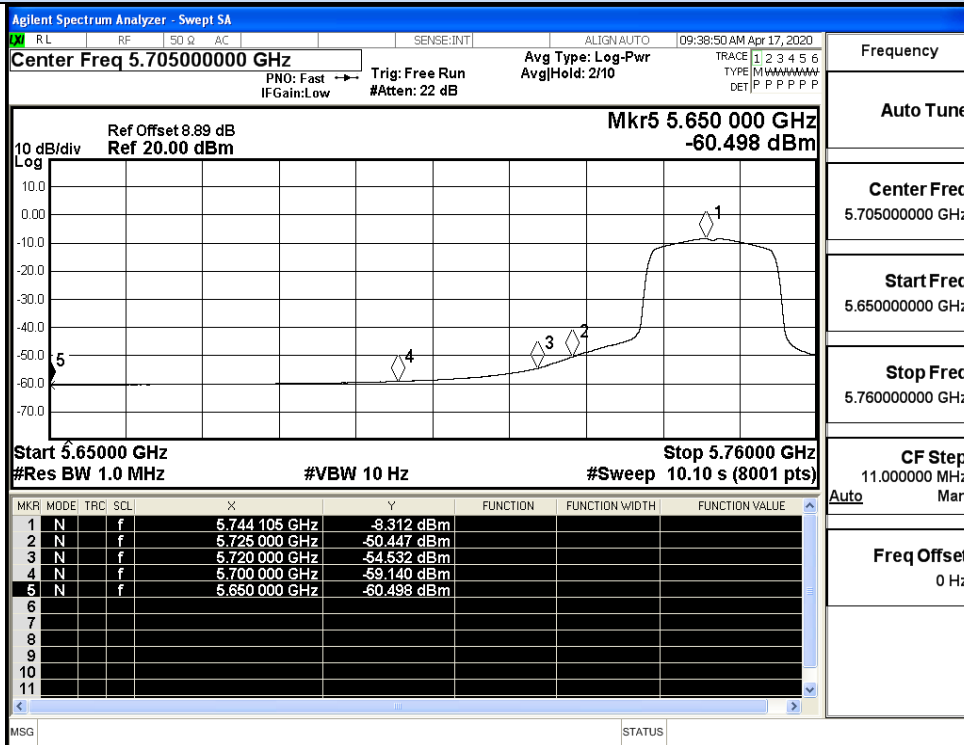
IEEE 802.11n40 / Channel 159 / 5795MHz / Peak



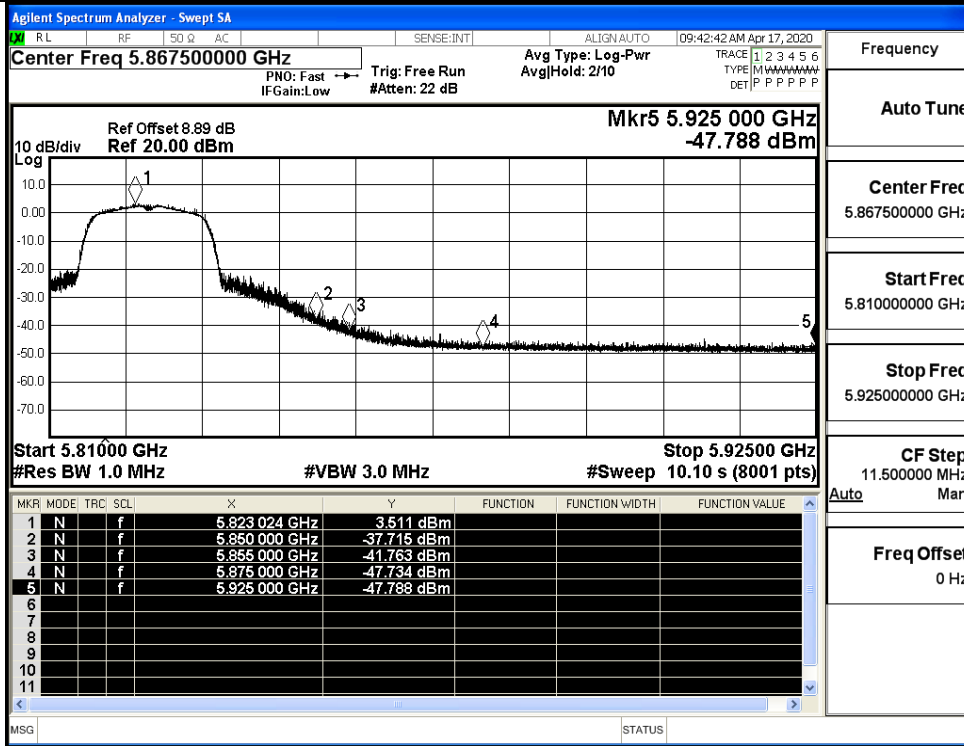
IEEE 802.11n40 / Channel 159 / 5795MHz / Average



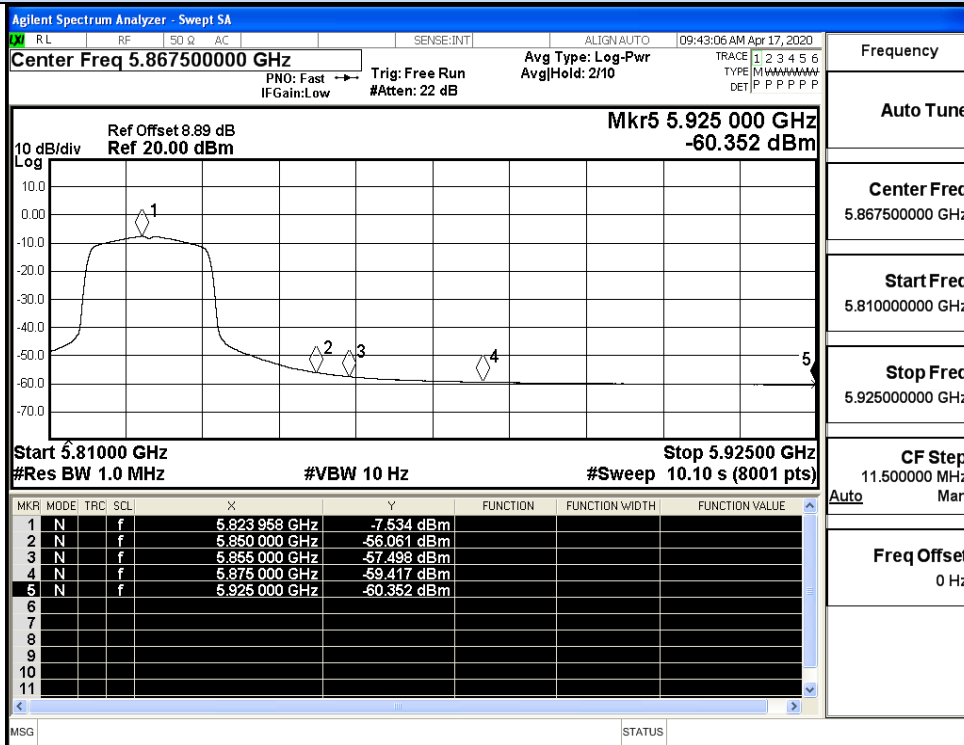
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



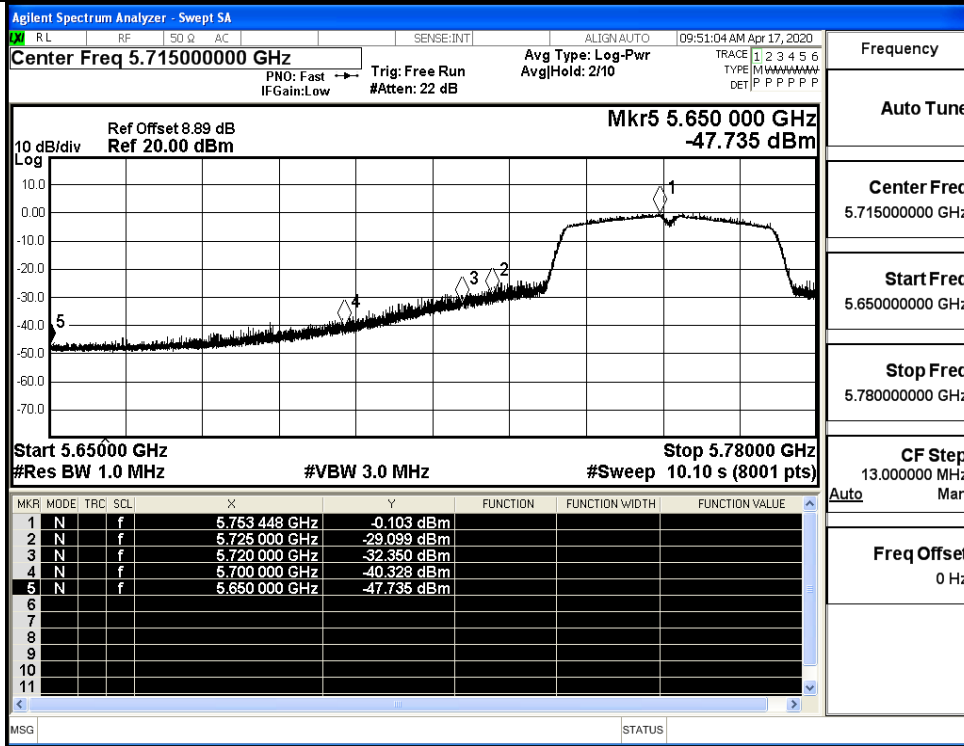
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



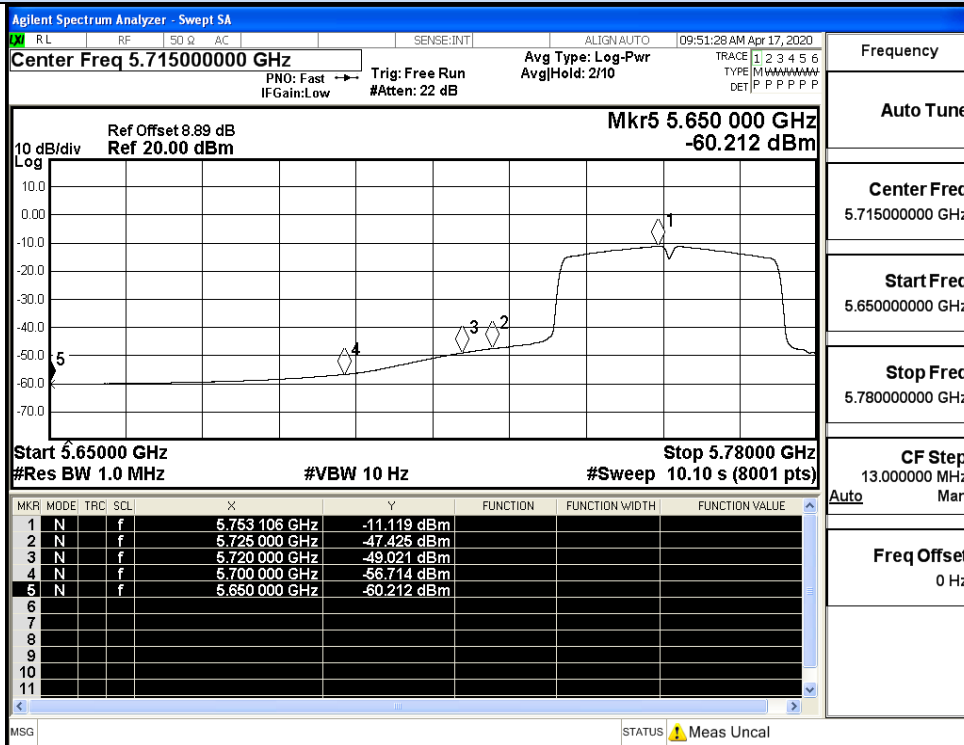
IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak



IEEE 802.11ac20 / Channel 165 / 5825MHz / Average

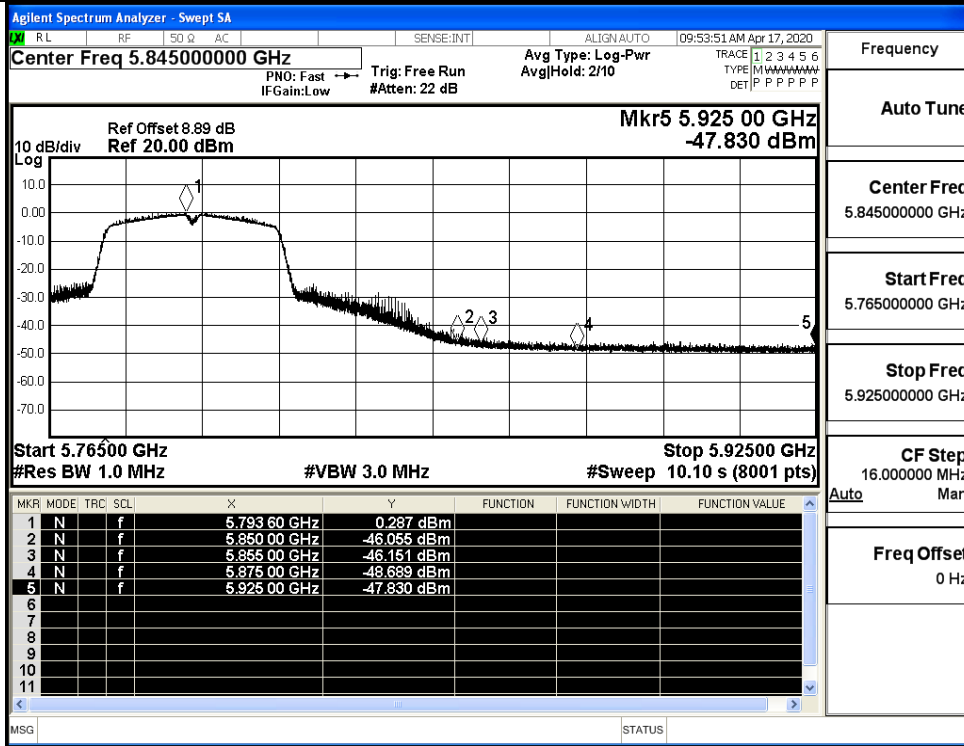


IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



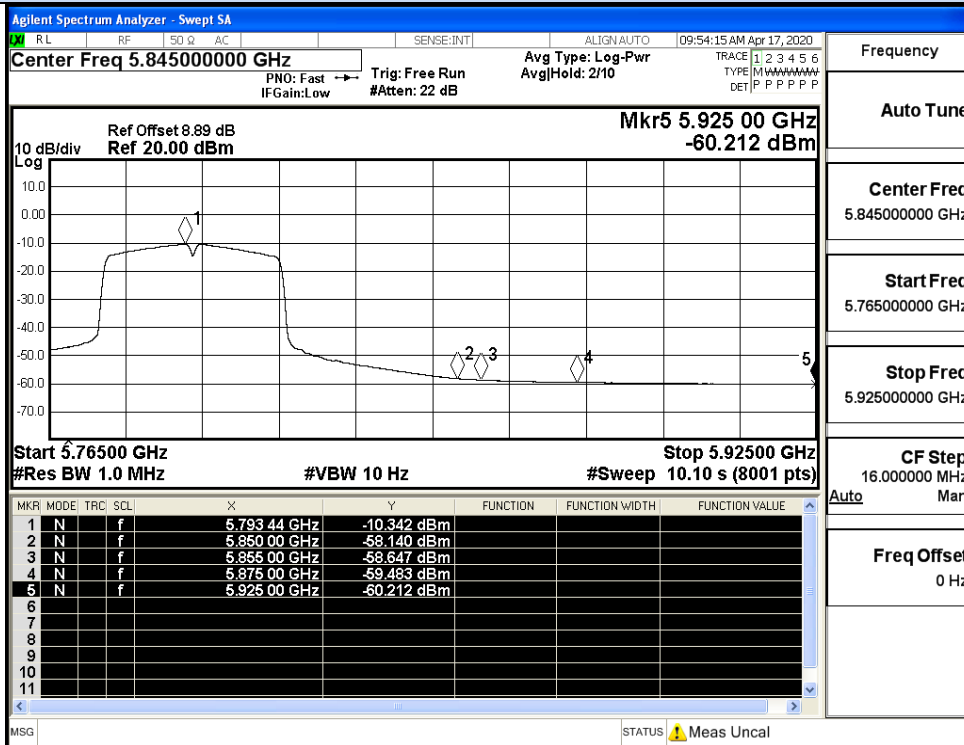
IEEE 802.11ac40 / Channel 151 / 5755MHz / Average





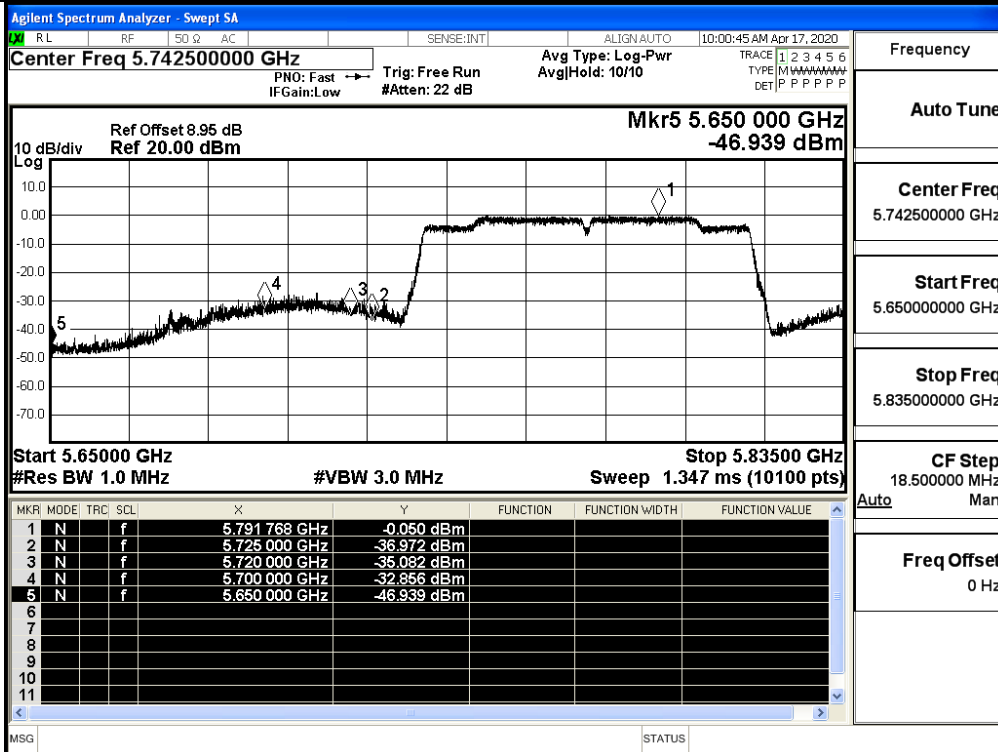
Frequency	5.845000000 GHz
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak



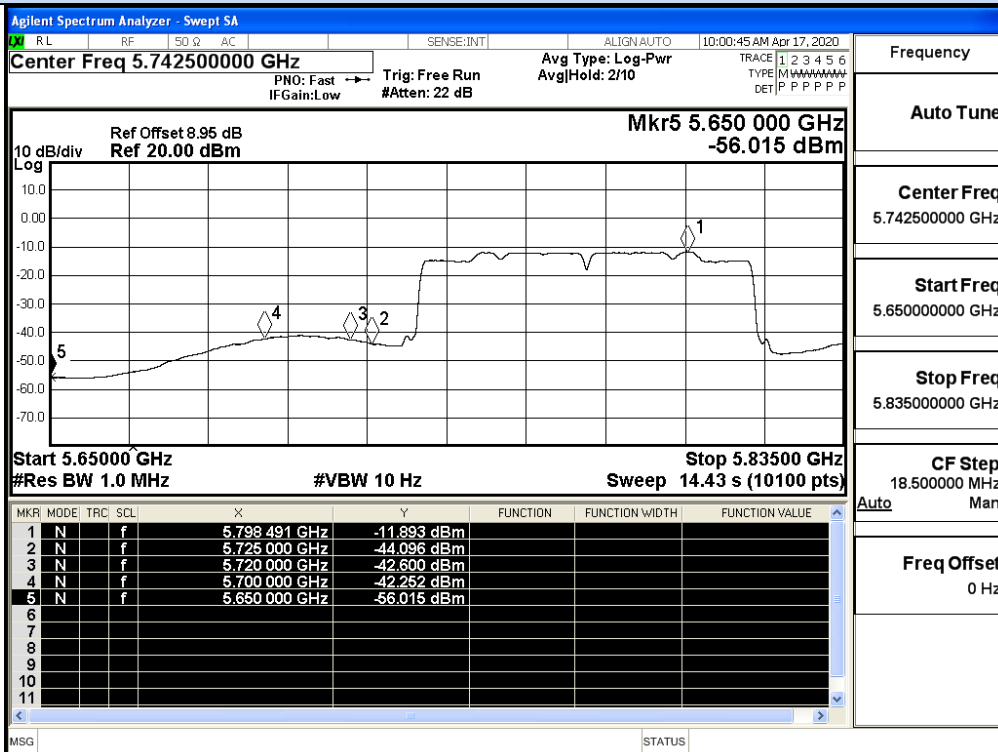
Frequency	5.845000000 GHz
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 159 / 5795MHz / Average



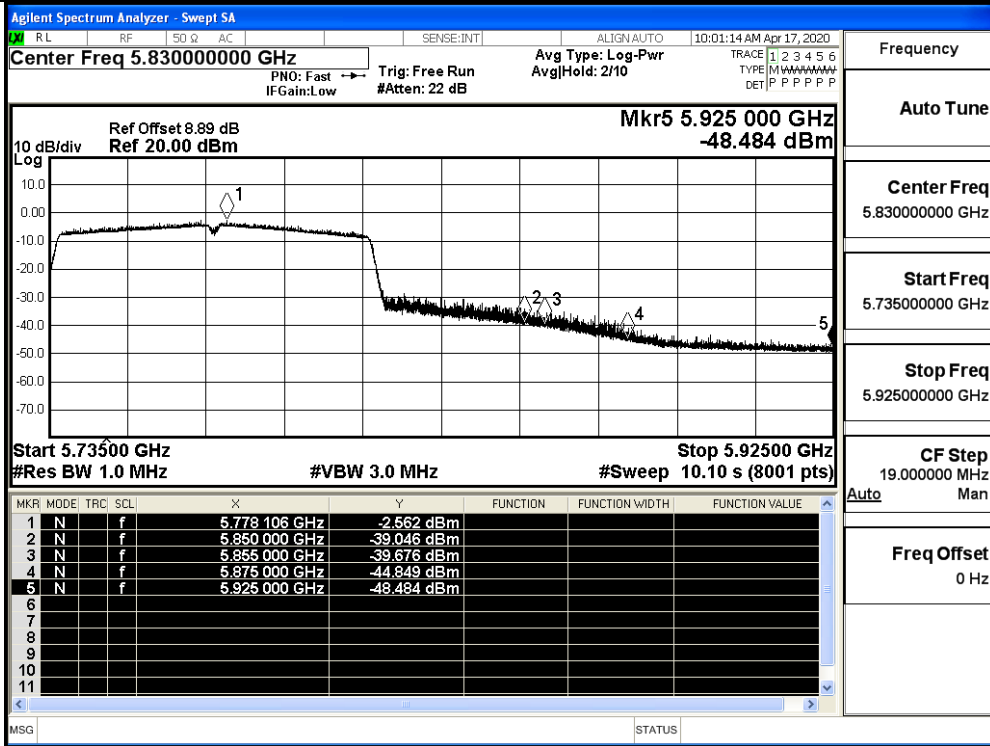
Frequency	
Auto Tune	
Center Freq	5.742500000 GHz
Start Freq	5.650000000 GHz
Stop Freq	5.835000000 GHz
CF Step	18.500000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak

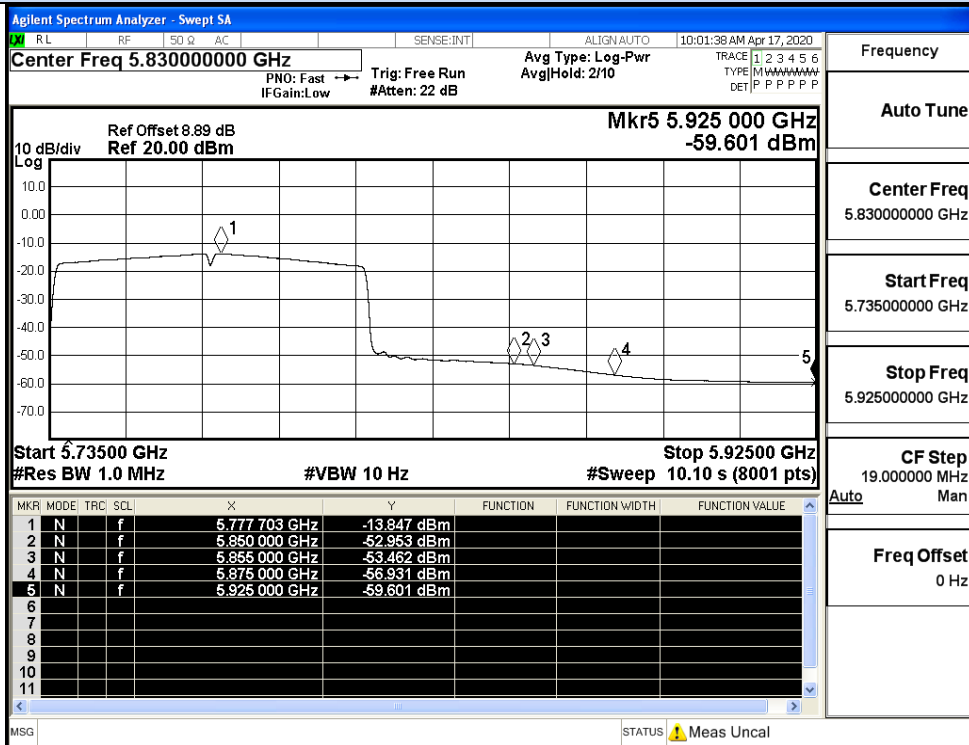


Frequency	
Auto Tune	
Center Freq	5.742500000 GHz
Start Freq	5.650000000 GHz
Stop Freq	5.835000000 GHz
CF Step	18.500000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Average



IEEE 802.11ac80 / Channel 155/ 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average