

## Appendix D

### RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: N/A

Test Model: EDT800

#### 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

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01
11N20 SISO	5200	100	0.00	0.01
11N40 SISO	5190	100	0.00	0.01
11AC20 SISO	5200	100	0.00	0.01
11AC40 SISO	5190	100	0.00	0.01
11AC80 SISO	5210	100	0.00	0.01

On Time and Duty Cycle

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE:INT ALIGN:AUTO 08:08:40 PM May 28, 2021

Center Freq 5.200000000 GHz Avg Type: RMS

PN0: Fast Trig: Free Run  
IFGain:Low #Atten: 30 dB

10 dB/div Ref 20.00 dBm

Center 5.200000000 GHz Span 0 Hz  
Res BW 8 MHz #VBW 50 MHz\* Sweep 10.13 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency: 5.200000000 GHz

Auto Tune

Center Freq: 5.200000000 GHz

Start Freq: 5.200000000 GHz

Stop Freq: 5.200000000 GHz

CF Step: 8.000000 MHz

Freq Offset: 0 Hz

IEEE 802.11a

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE:INT ALIGN:AUTO 08:10:00 PM May 28, 2021

Center Freq 5.200000000 GHz Avg Type: RMS

PN0: Fast Trig: Free Run  
IFGain:Low #Atten: 30 dB

10 dB/div Ref 20.00 dBm

Center 5.200000000 GHz Span 0 Hz  
Res BW 8 MHz #VBW 50 MHz\* Sweep 10.13 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency: 5.200000000 GHz

Auto Tune

Center Freq: 5.200000000 GHz

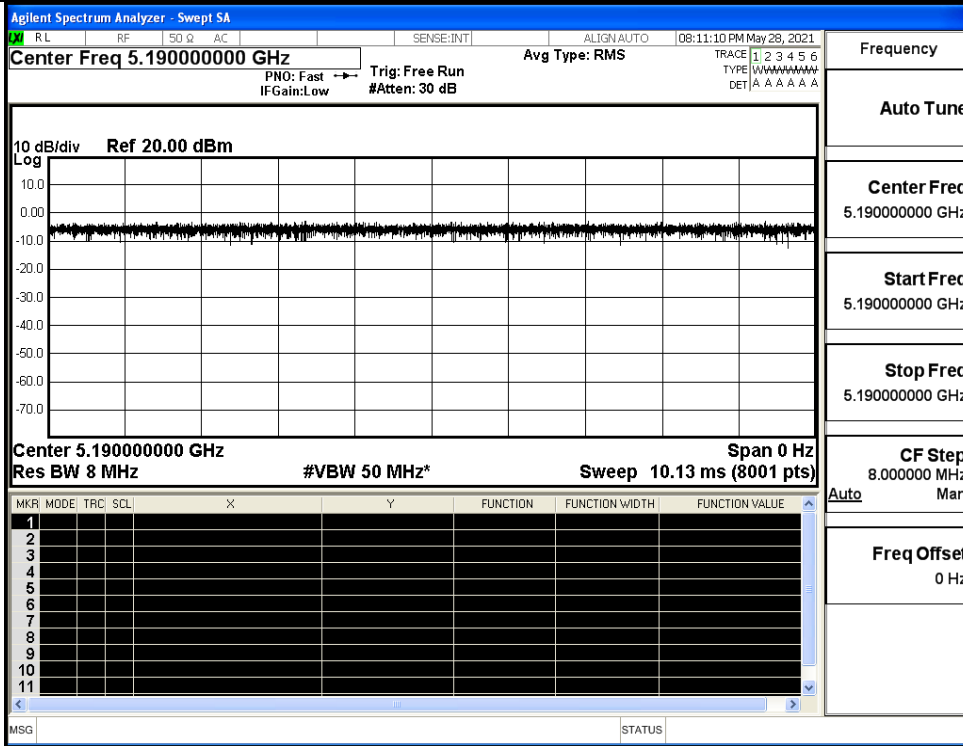
Start Freq: 5.200000000 GHz

Stop Freq: 5.200000000 GHz

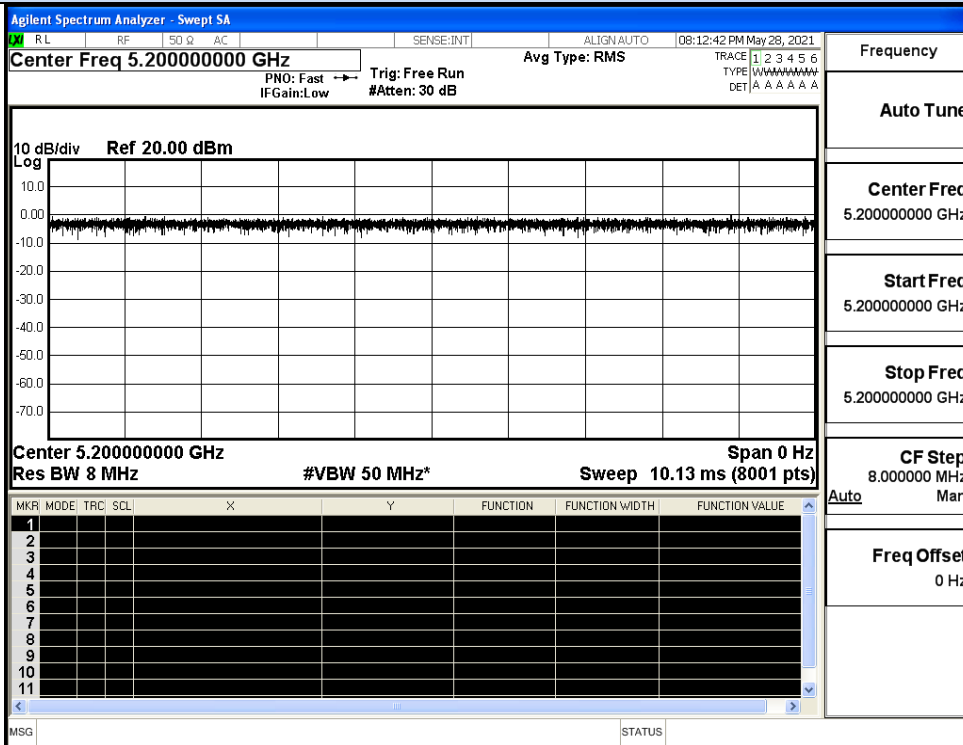
CF Step: 8.000000 MHz

Freq Offset: 0 Hz

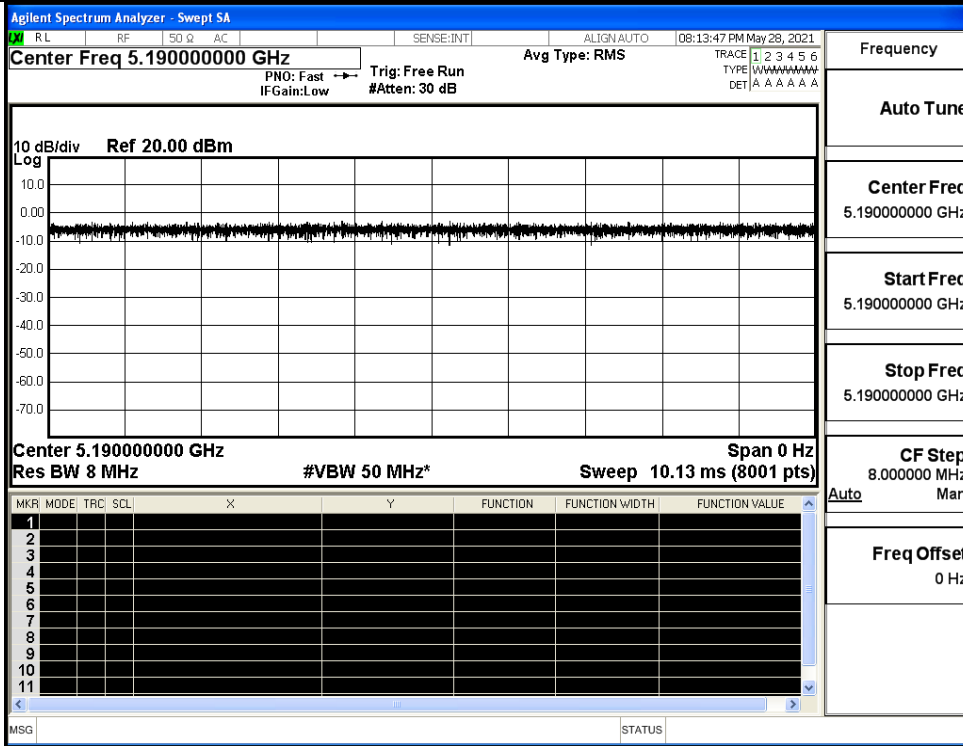
IEEE 802.11n HT20



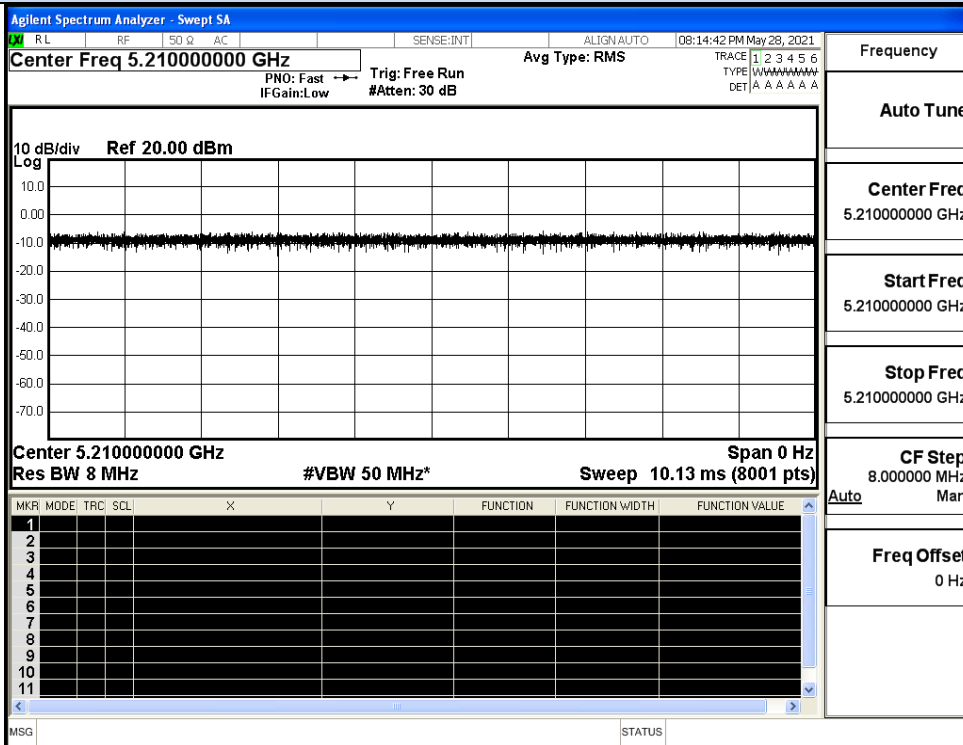
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



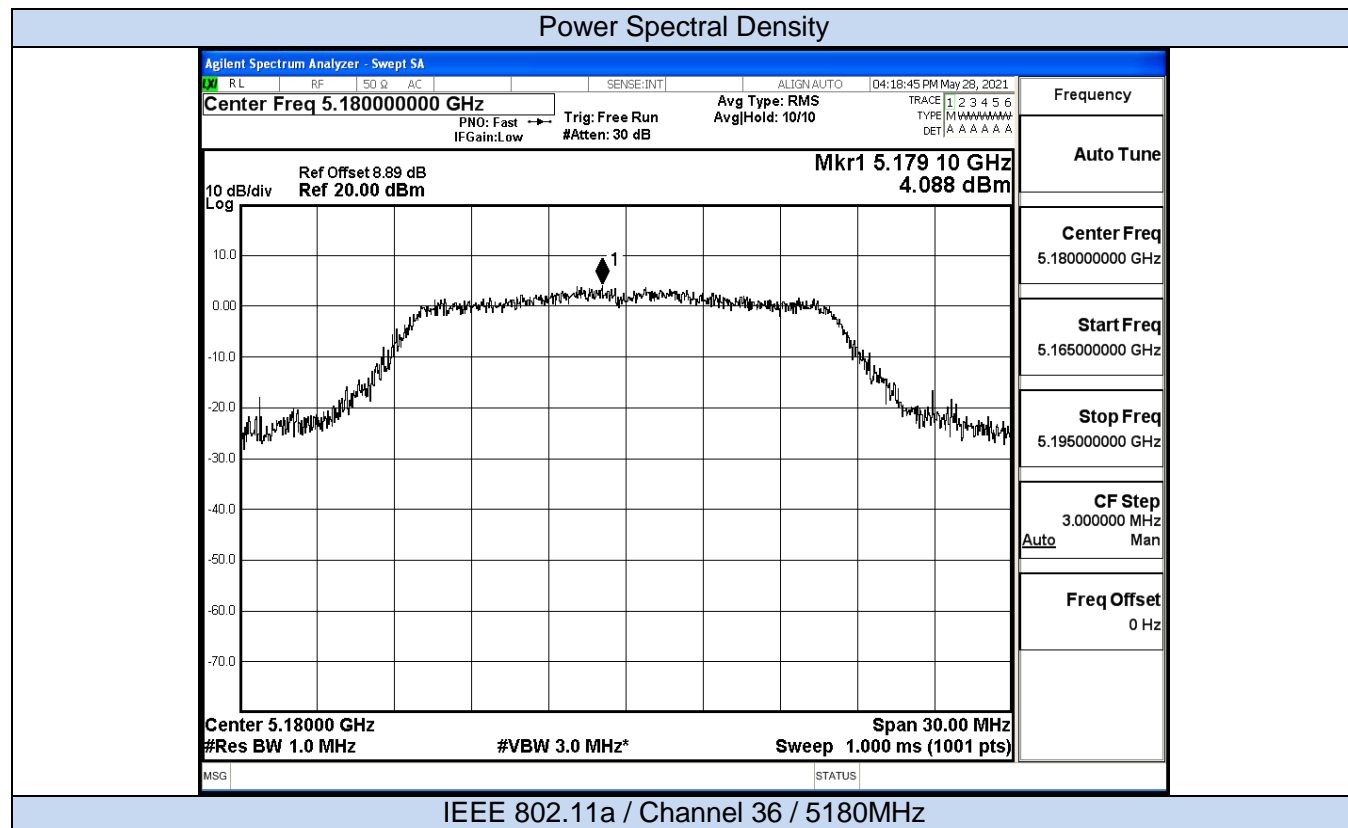
IEEE 802.11AC80

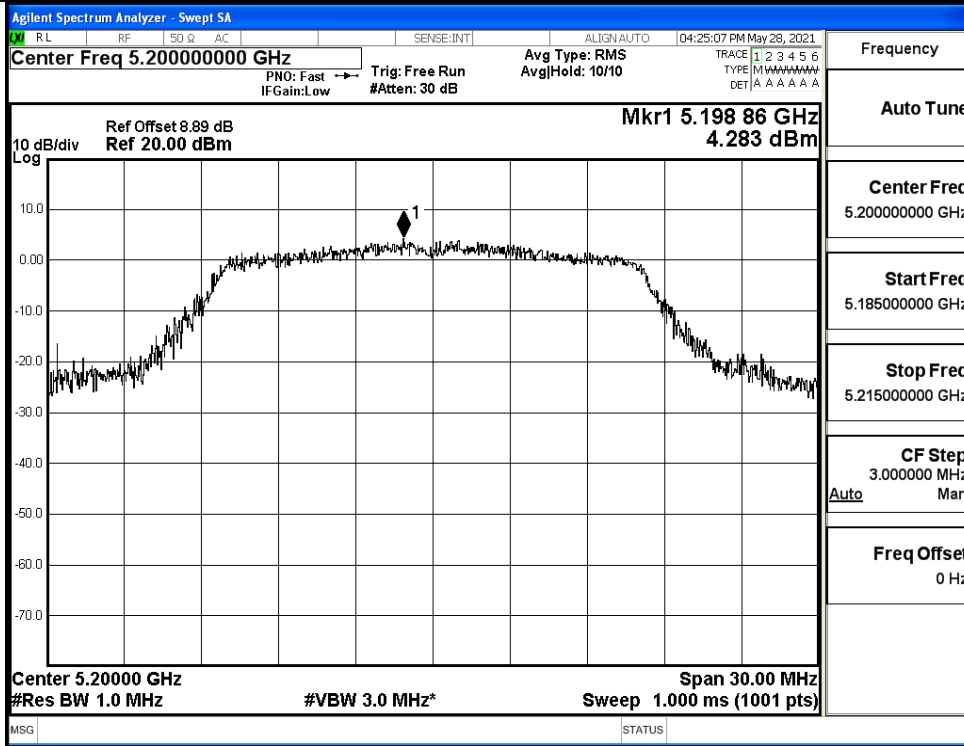
**D.2 Maximum Conduct Output Power**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	13.52	0	13.52	24	Pass
	40	5200	13.75	0	13.75		Pass
	48	5240	13.13	0	13.13		Pass
11N20 SISO	36	5180	13.35	0	13.35	24	Pass
	40	5200	13.25	0	13.25		Pass
	48	5240	12.96	0	12.96		Pass
11N40 SISO	38	5190	13.4	0	13.4	24	Pass
	46	5230	13.2	0	13.2		Pass
11AC20 SISO	36	5180	13.54	0	13.54	24	Pass
	40	5200	13.49	0	13.49		Pass
	48	5240	12.99	0	12.99		Pass
11AC40 SISO	38	5190	13.44	0	13.44	24	Pass
	46	5230	13.25	0	13.25		Pass
11AC80 SISO	42	5210	13.69	0	13.69	24	Pass

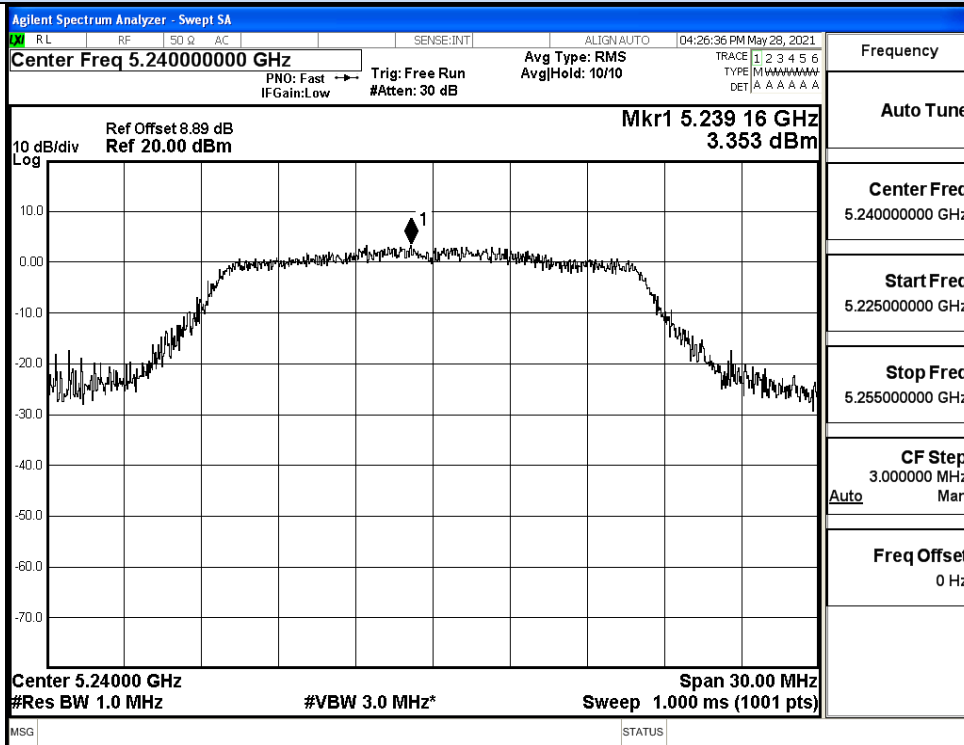
### D.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	4.09	0	4.09	11	Pass
	40	5200	4.28	0	4.28		Pass
	48	5240	3.35	0	3.35		Pass
11N20 SISO	36	5180	3.67	0	3.67	11	Pass
	40	5200	3.30	0	3.30		Pass
	48	5240	2.85	0	2.85		Pass
11N40 SISO	38	5190	0.82	0	0.82	11	Pass
	46	5230	0.43	0	0.43		Pass
11AC20 SISO	36	5180	3.46	0	3.46	11	Pass
	40	5200	3.72	0	3.72		Pass
	48	5240	2.86	0	2.86		Pass
11AC40 SISO	38	5190	1.07	0	1.07	11	Pass
	46	5230	0.24	0	0.24		Pass
11AC80 SISO	42	5210	-2.07	0	-2.07	11	Pass



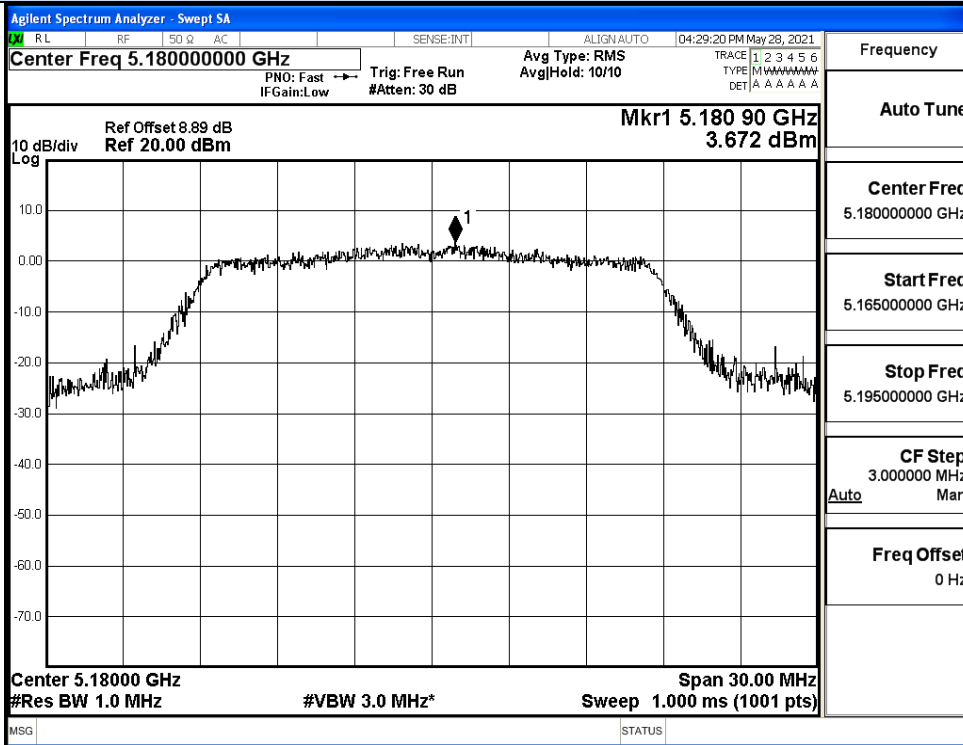


IEEE 802.11na / Channel 40 / 5200MHz

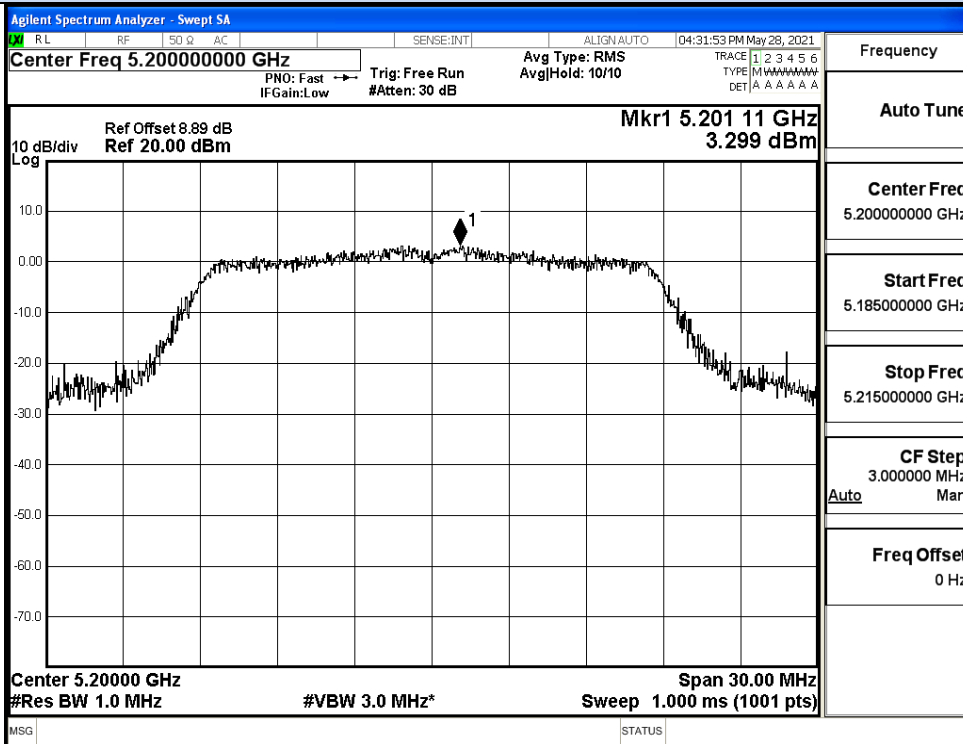


IEEE 802.11na / Channel 48 / 5240MHz

### Power Spectral Density

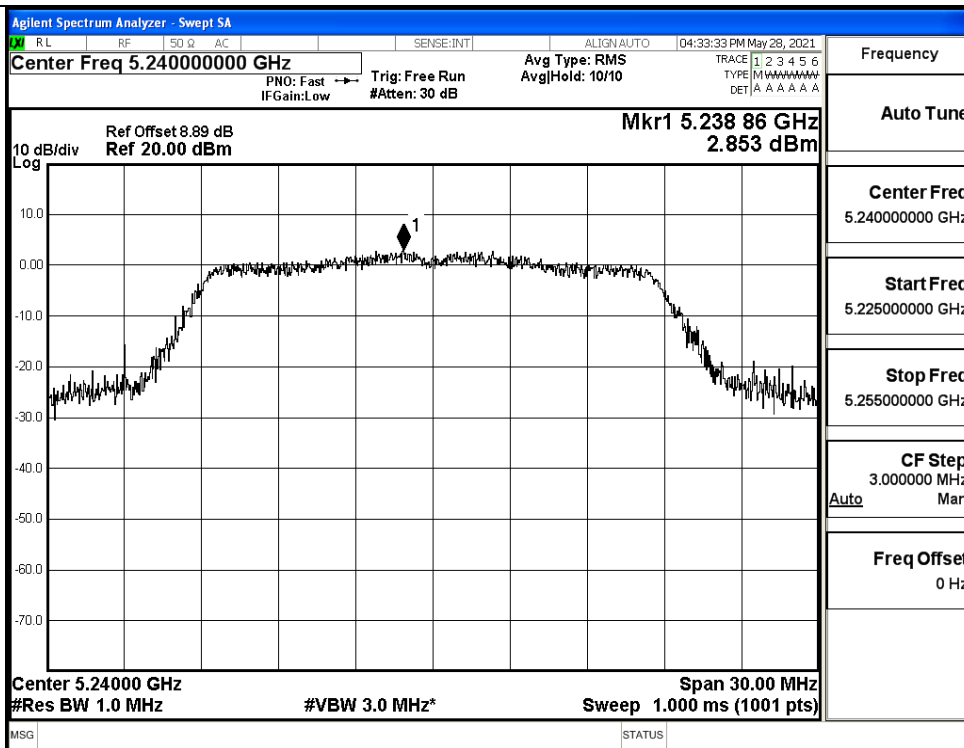


### IEEE 802.11n20 / Channel 36 / 5180MHz



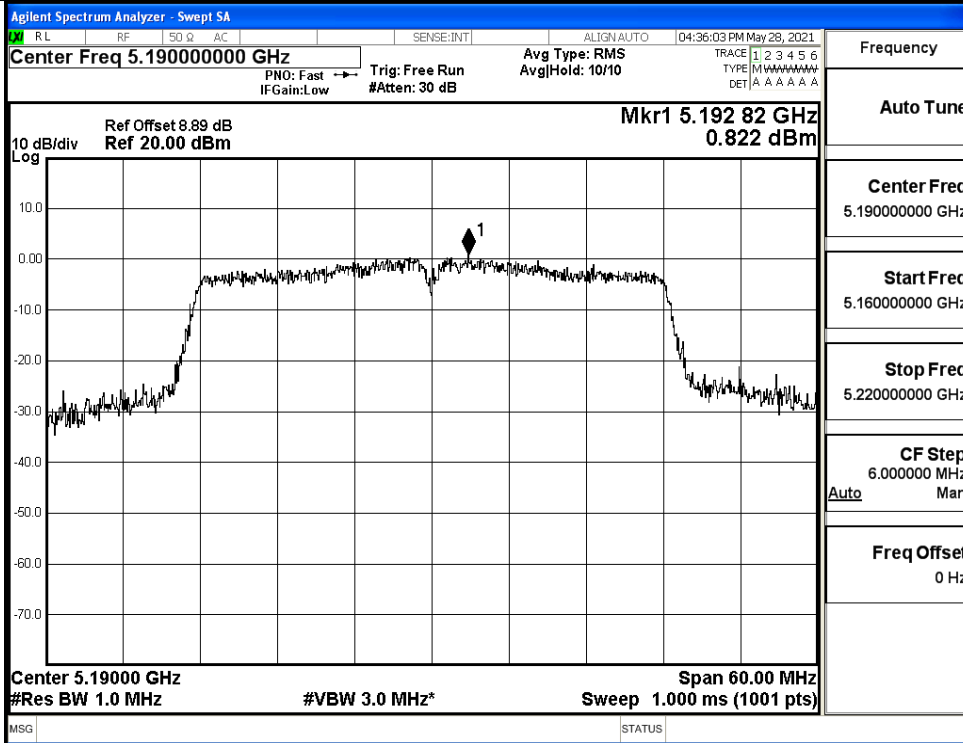
### IEEE 802.11n20 / Channel 40 / 5200MHz



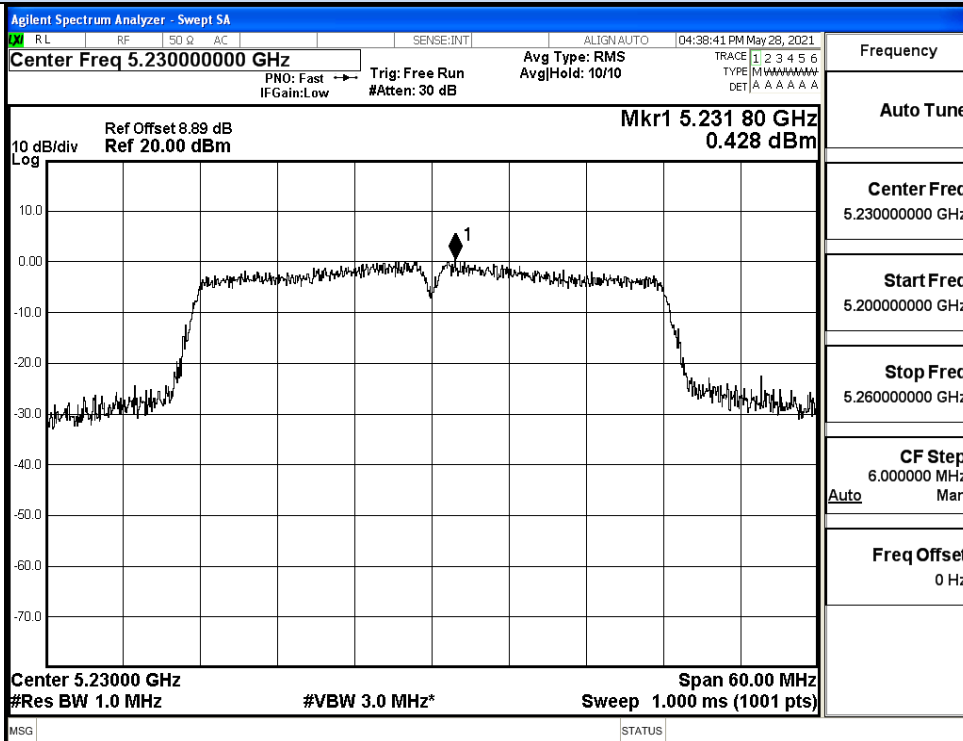


IEEE 802.11n20 / Channel 48 / 5240MHz

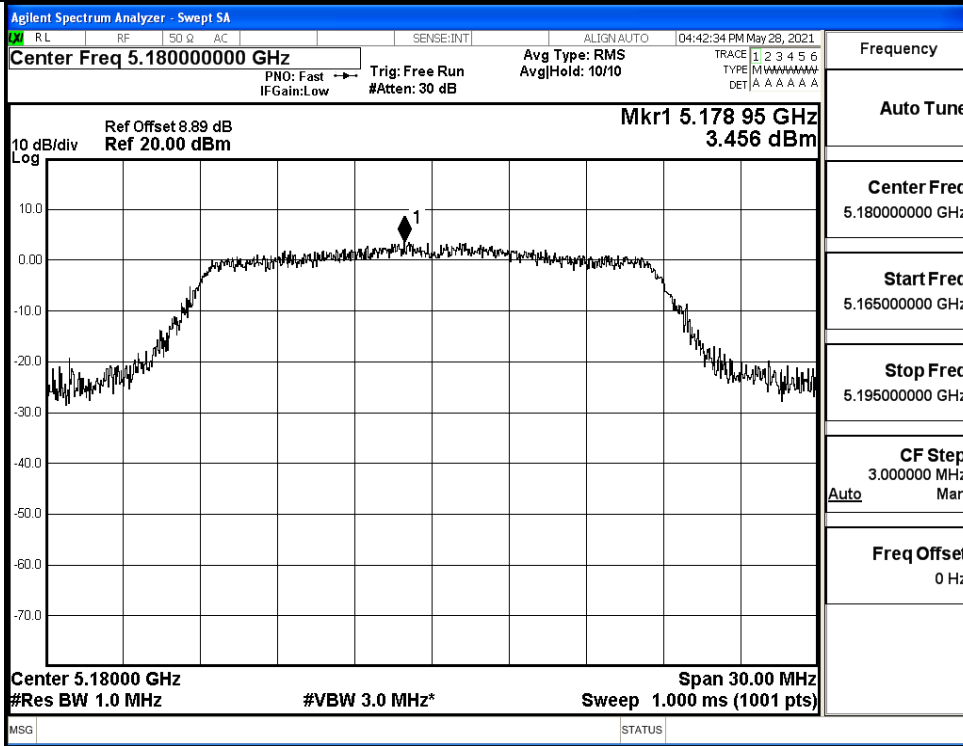
Power Spectral Density



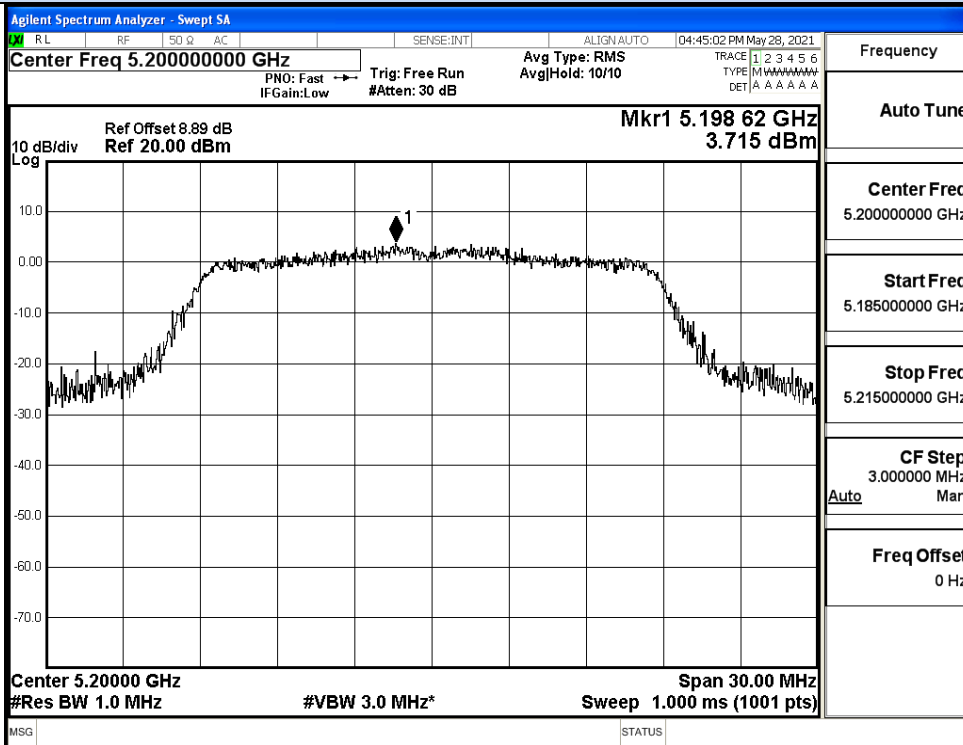
IEEE 802.11n40 / Channel 38 / 5190MHz



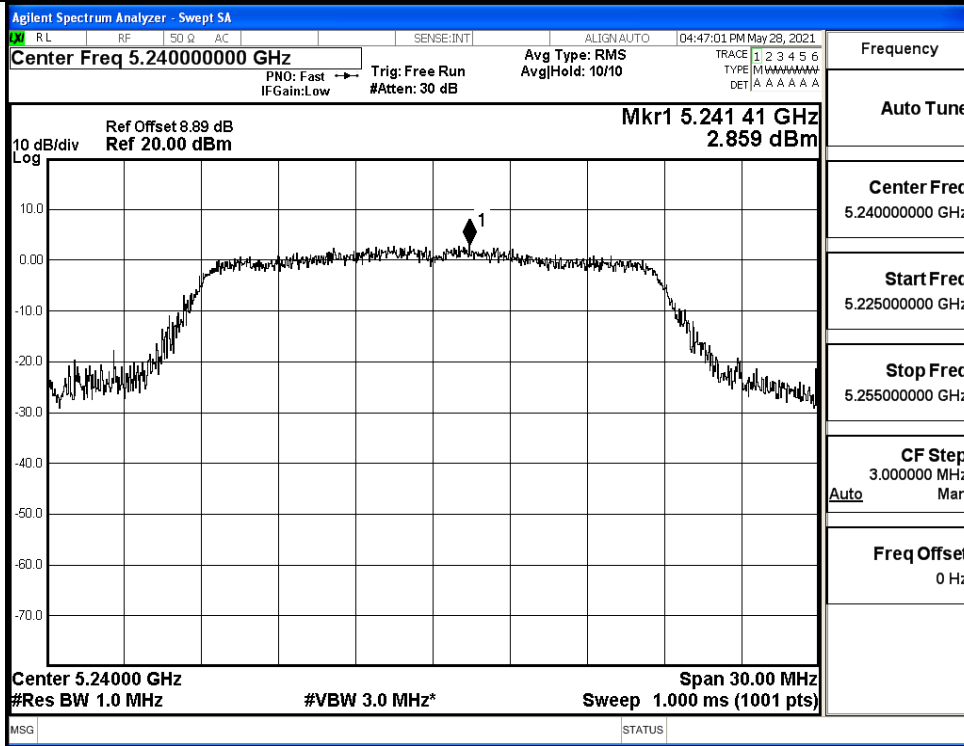
IEEE 802.11n40 / Channel 46 / 5230MHz



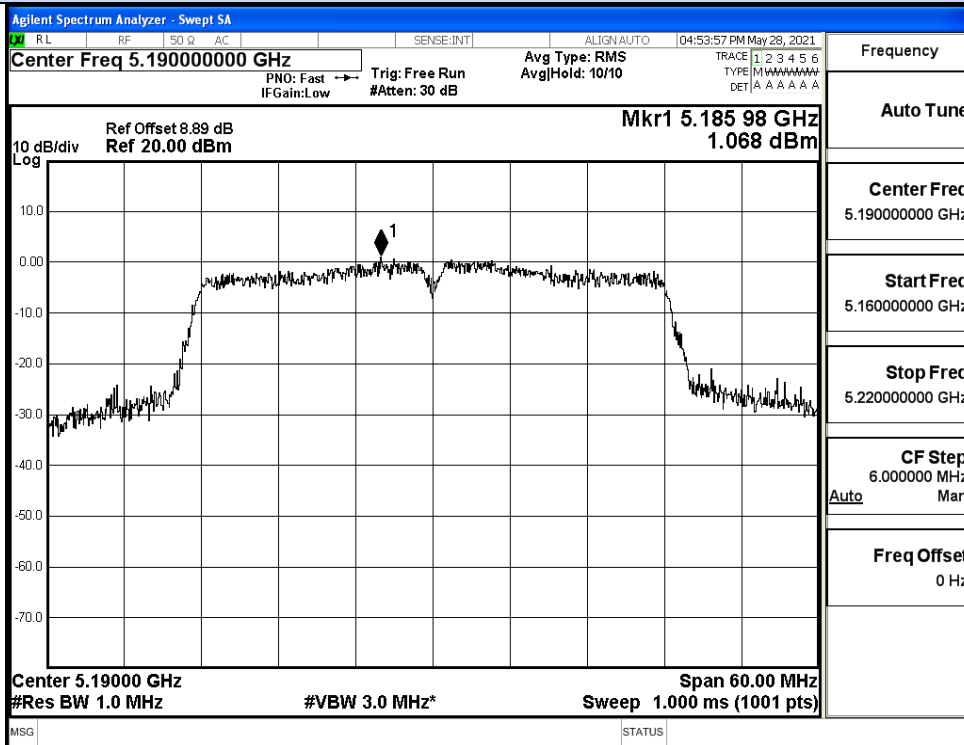
IEEE 802.11ac20 / Channel 36 / 5180MHz



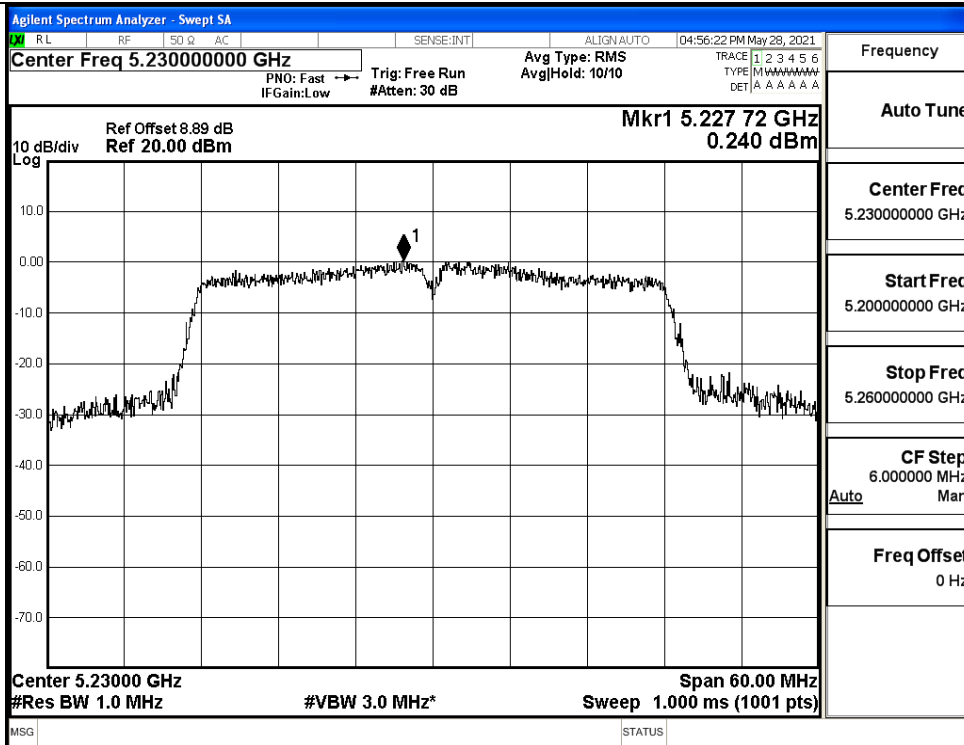
IEEE 802.11ac20 / Channel 40 / 5200MHz



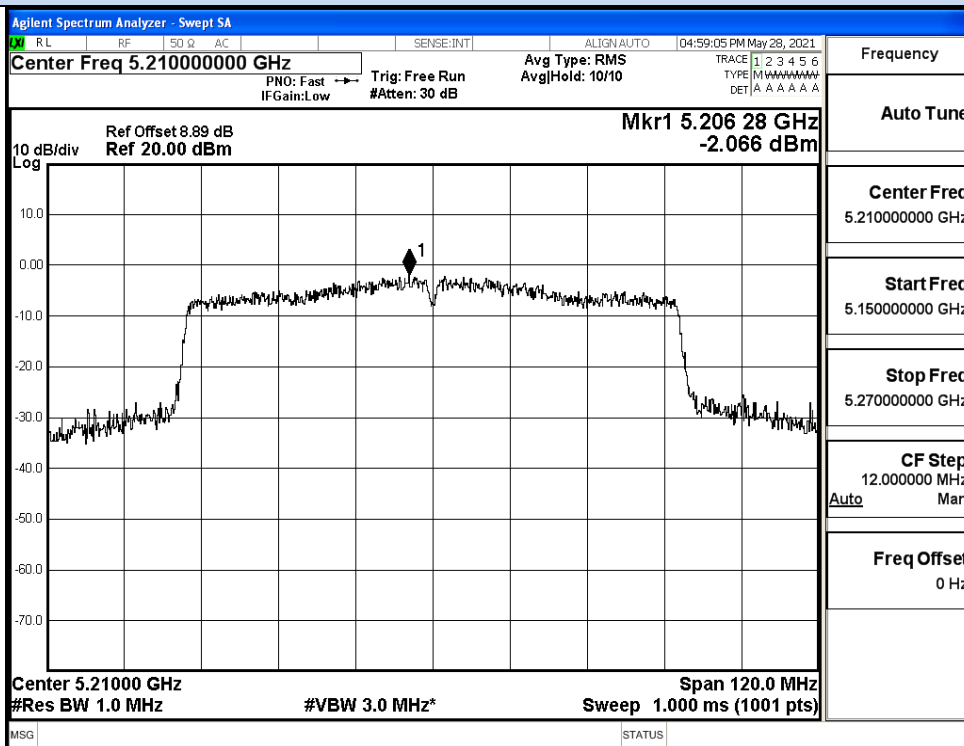
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



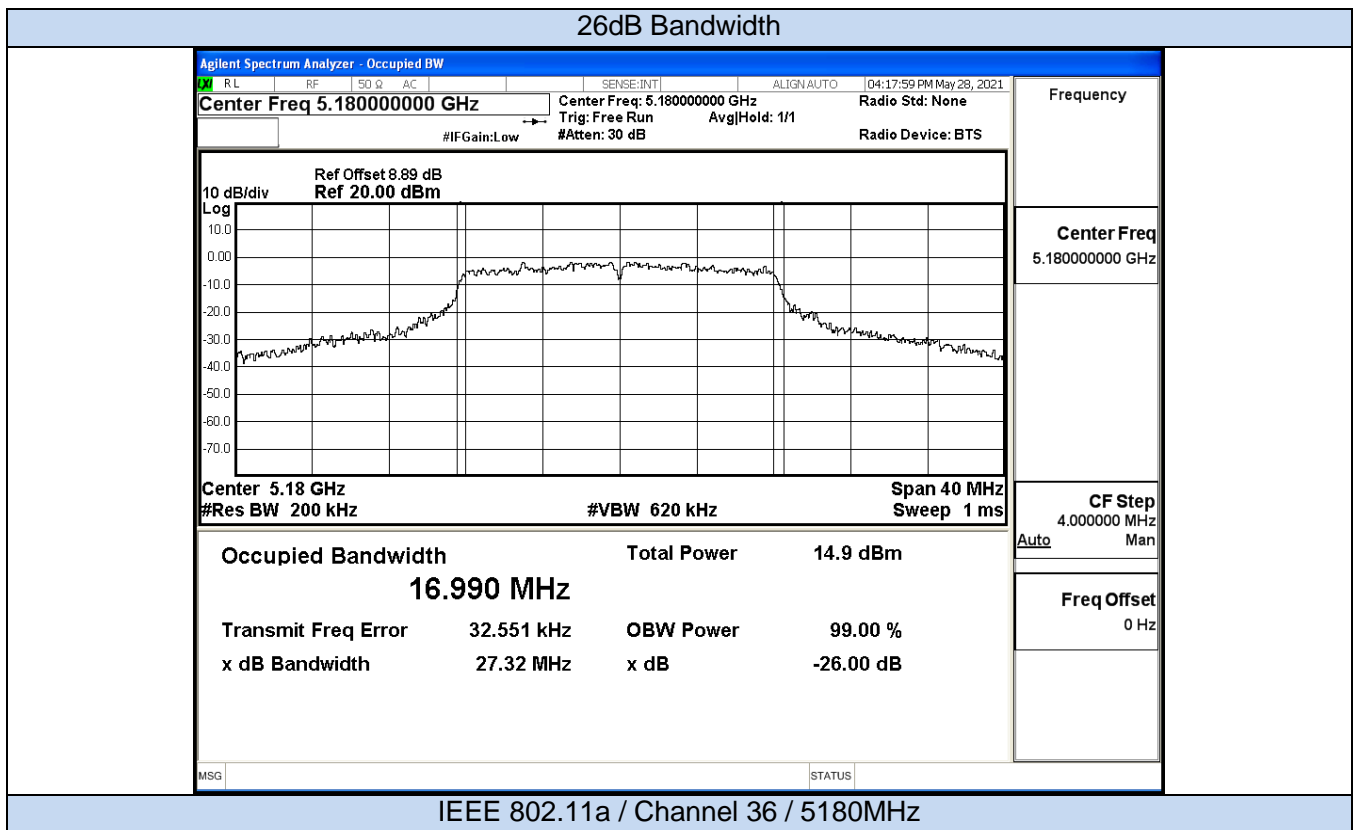
IEEE 802.11ac40 / Channel 46 / 5230MHz

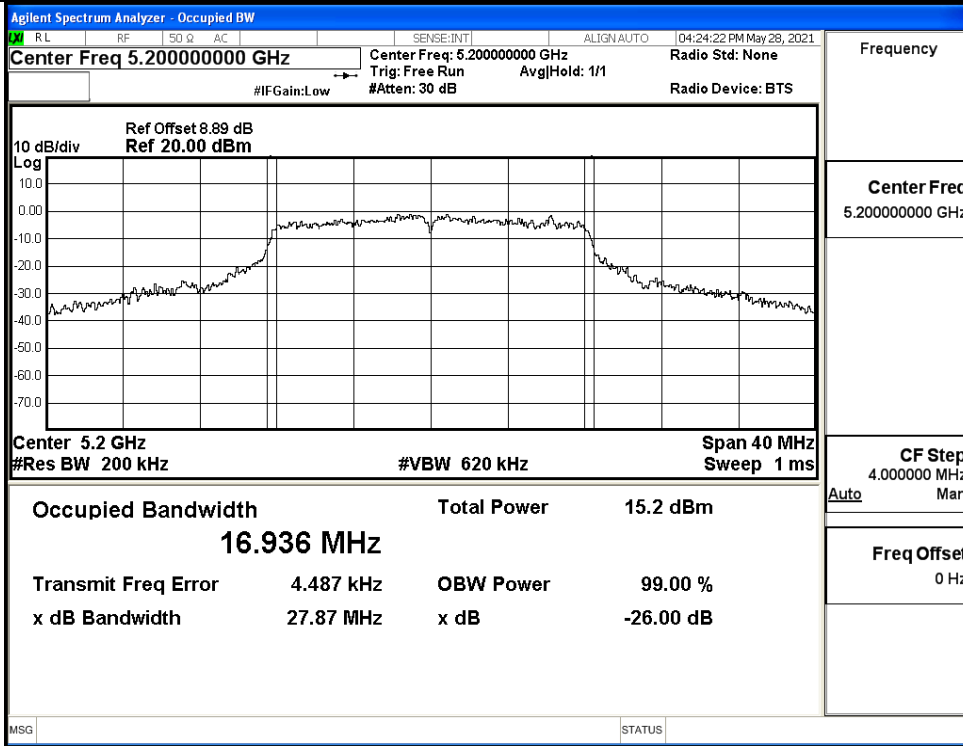


IEEE 802.11ac80 / Channel 42 / 5210MHz

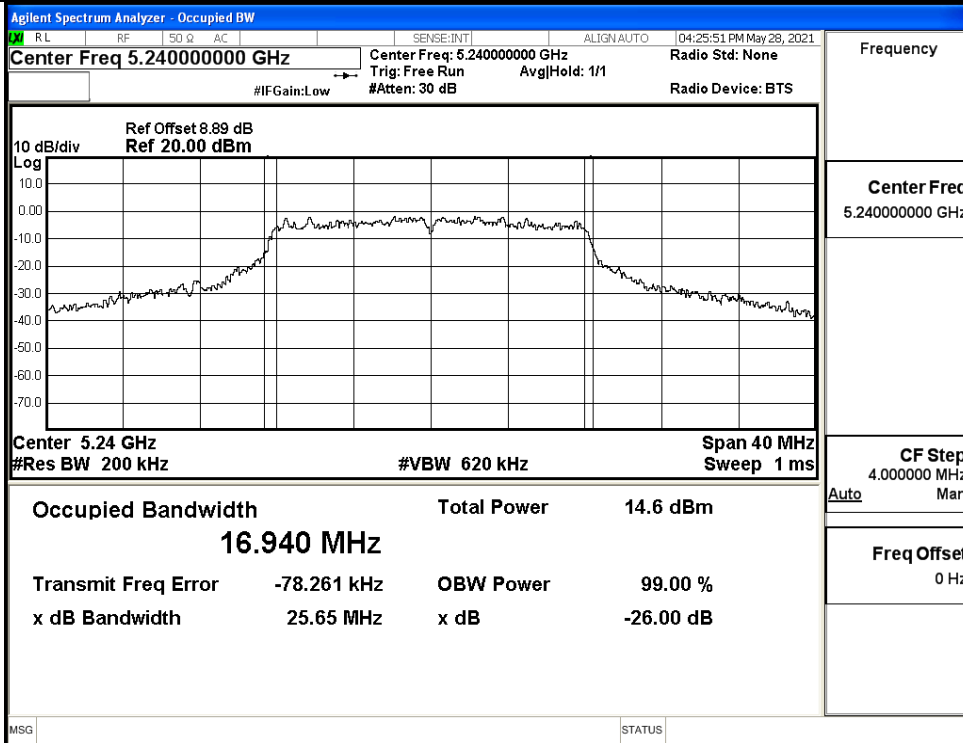
### D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	27.32	No Limit	Pass
	40	5200	27.87		Pass
	48	5240	25.65		Pass
11N20 SISO	36	5180	26.48	No Limit	Pass
	40	5200	24.69		Pass
	48	5240	25.51		Pass
11N40 SISO	38	5190	48.17	No Limit	Pass
	46	5230	53.17		Pass
11AC20 SISO	36	5180	26.69	No Limi	Pass
	40	5200	24.84		Pass
	48	5240	23.71		Pass
11AC40 SISO	38	5190	52.90	No Limi	Pass
	46	5230	52.32		Pass
11AC80 SISO	42	5210	100.8	No Limi	Pass





IEEE 802.11a / Channel 40 / 5200MHz



IEEE 802.11a / Channel 48 / 5240MHz

26dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q	AC	SENSE:INT	ALIGN:AUTO	04:28:34 PM May 28, 2021
----	----	------	----	-----------	------------	--------------------------

Center Freq 5.18000000 GHz

Center Freq: 5.18000000 GHz  
 Trig: Free Run  
 AvgHold: 1/1

Radio Std: None  
 Radio Device: BTS

#IFGain:Low #Atten: 30 dB

Ref Offset 8.89 dB  
 Ref 20.00 dBm

Center 5.18 GHz Span 40 MHz  
 #Res BW 200 kHz #VBW 620 kHz Sweep 1 ms

Occupied Bandwidth	Total Power	15.2 dBm
<b>17.947 MHz</b>		
Transmit Freq Error	3.338 kHz	OBW Power 99.00 %
x dB Bandwidth	26.48 MHz	x dB -26.00 dB

Frequency: 5.18000000 GHz

CF Step: 4.000000 MHz (Auto)

Freq Offset: 0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q	AC	SENSE:INT	ALIGN:AUTO	04:31:08 PM May 28, 2021
----	----	------	----	-----------	------------	--------------------------

Center Freq 5.20000000 GHz

Center Freq: 5.20000000 GHz  
 Trig: Free Run  
 AvgHold: 1/1

Radio Std: None  
 Radio Device: BTS

#IFGain:Low #Atten: 30 dB

Ref Offset 8.89 dB  
 Ref 20.00 dBm

Center 5.2 GHz Span 40 MHz  
 #Res BW 200 kHz #VBW 620 kHz Sweep 1 ms

Occupied Bandwidth	Total Power	15.1 dBm
<b>17.934 MHz</b>		
Transmit Freq Error	-25.141 kHz	OBW Power 99.00 %
x dB Bandwidth	24.69 MHz	x dB -26.00 dB

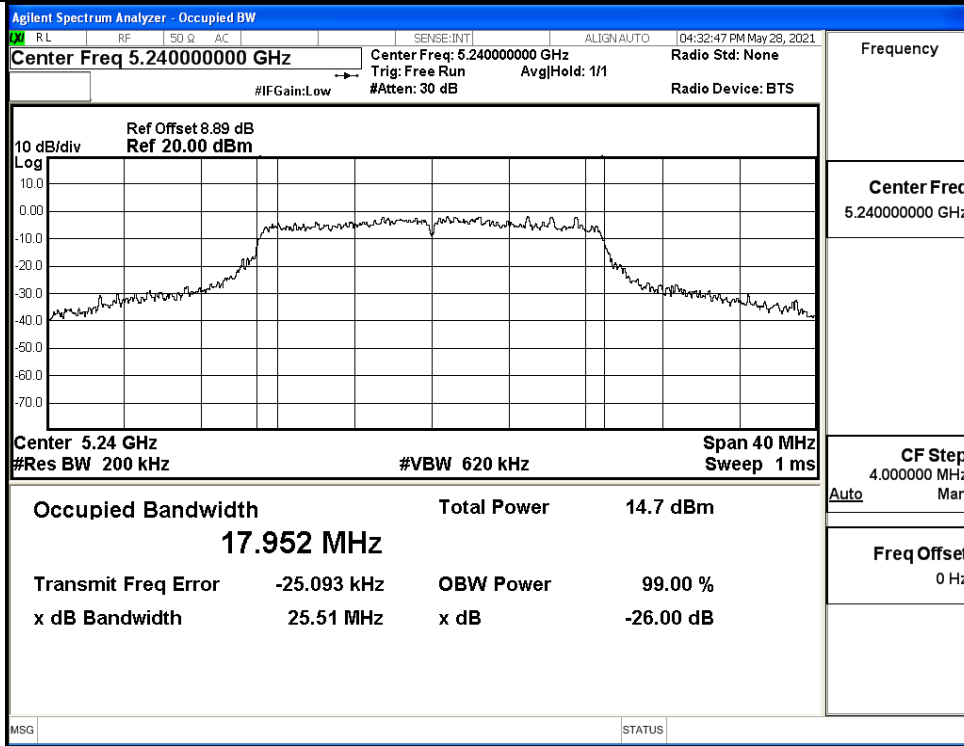
Frequency: 5.20000000 GHz

CF Step: 4.000000 MHz (Auto)

Freq Offset: 0 Hz

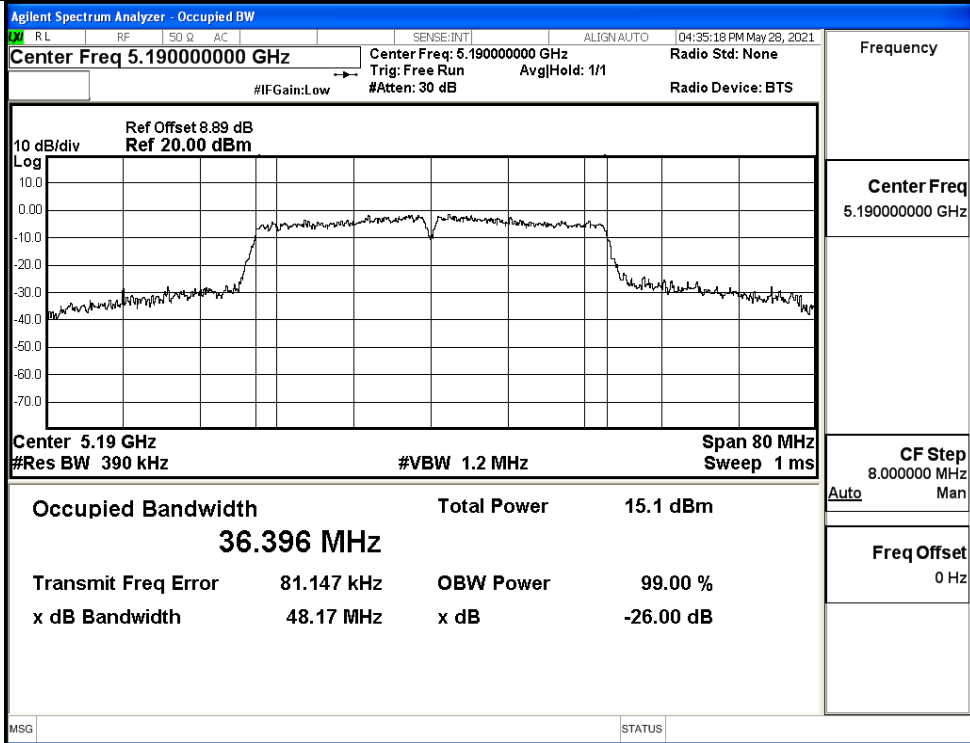
IEEE 802.11n20 / Channel 40 / 5200MHz



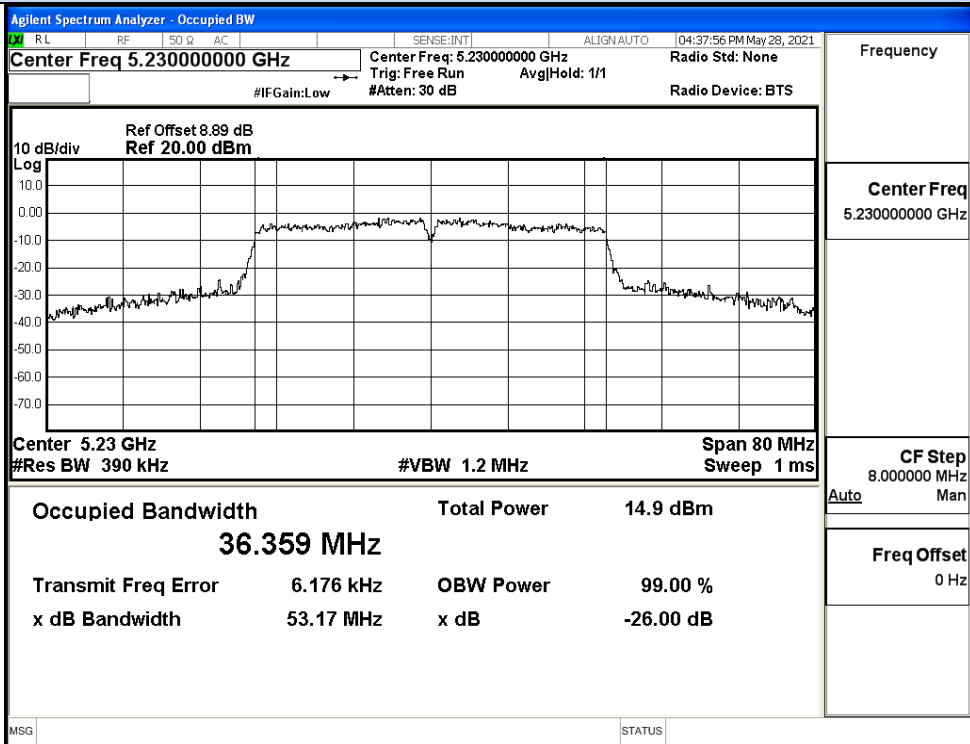


IEEE 802.11n20 / Channel 48 / 5240MHz

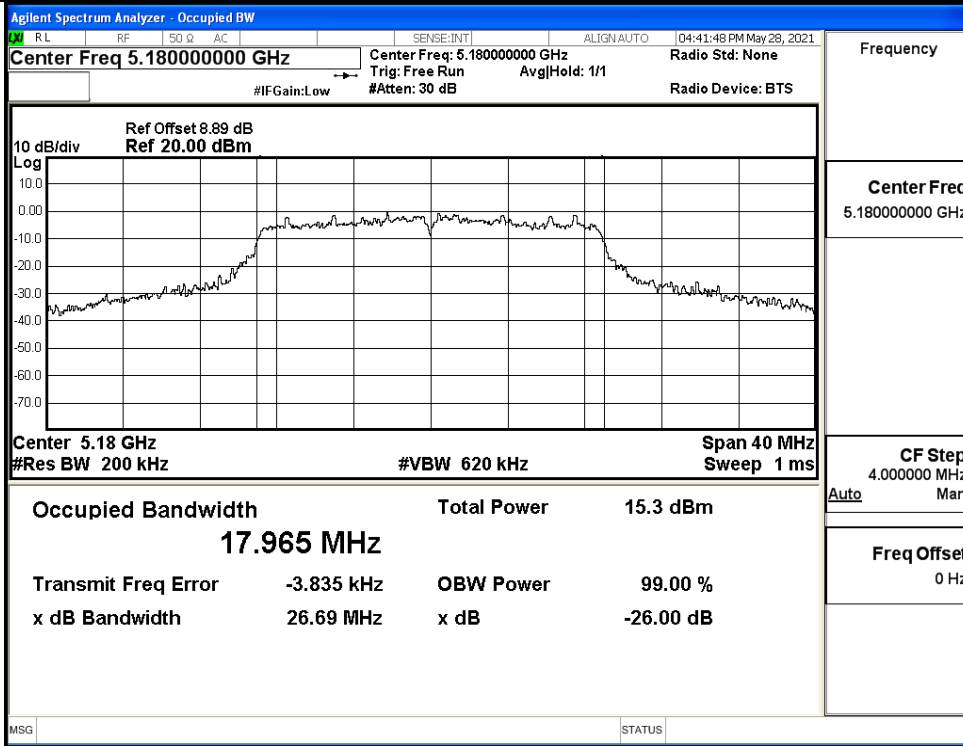
26dB Bandwidth



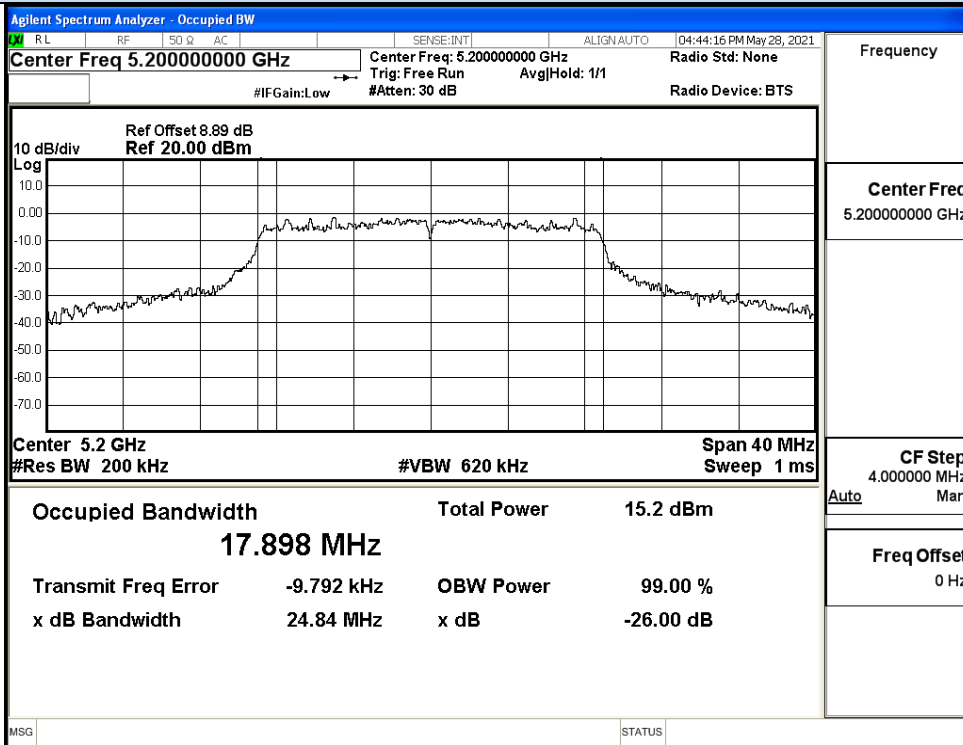
IEEE 802.11n40 / Channel 38 / 5190MHz



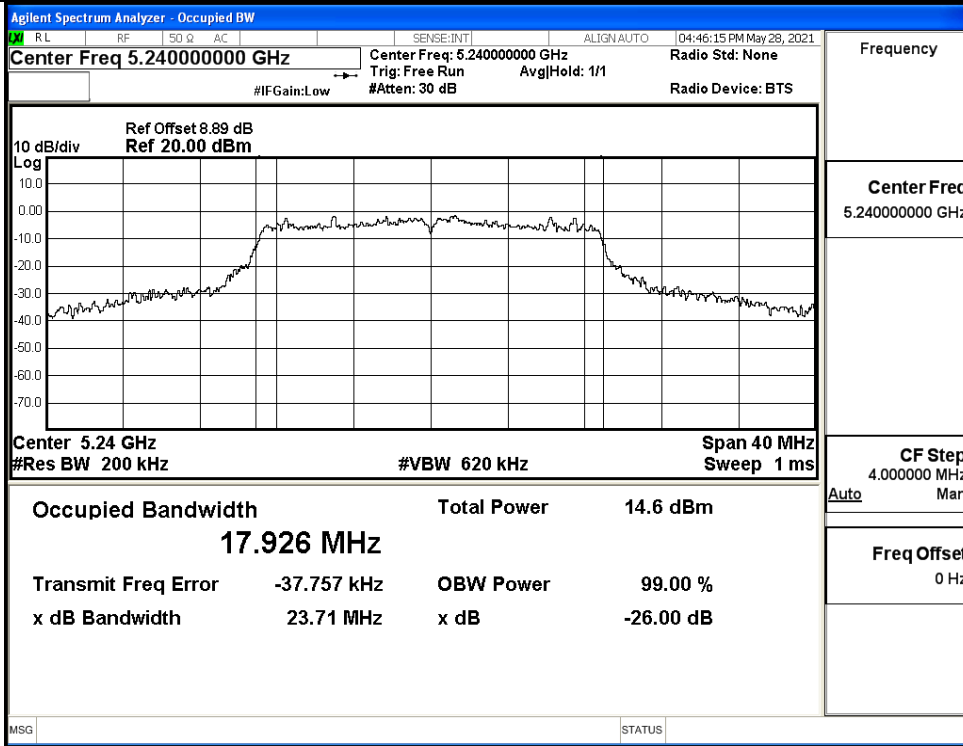
IEEE 802.11n40 / Channel 46 / 5230MHz



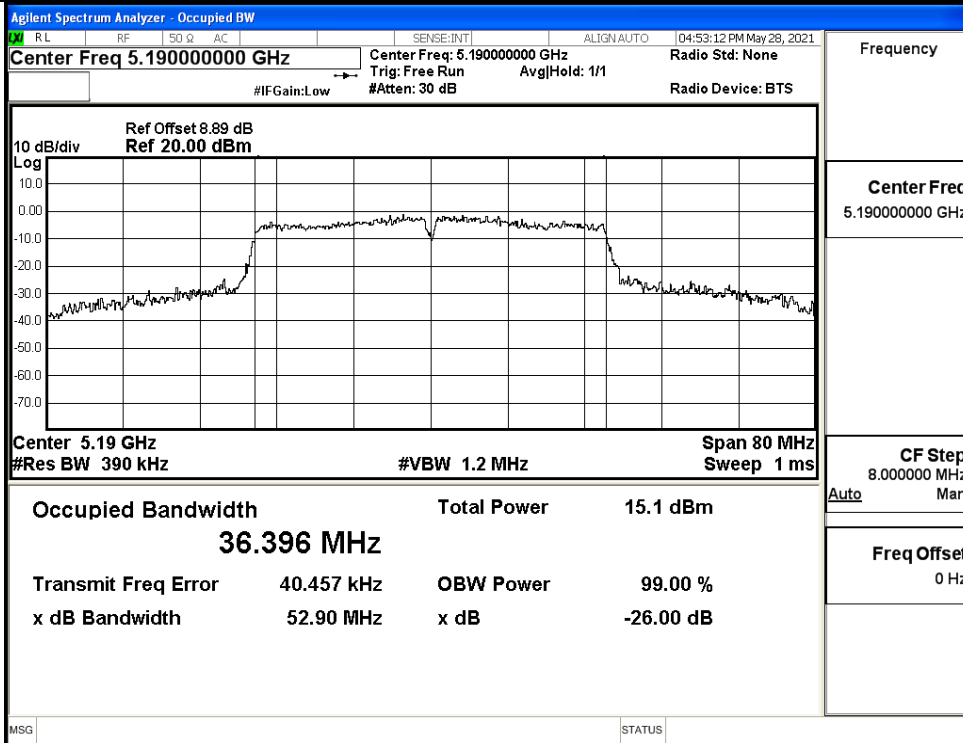
IEEE 802.11ac20 / Channel 36 / 5180MHz



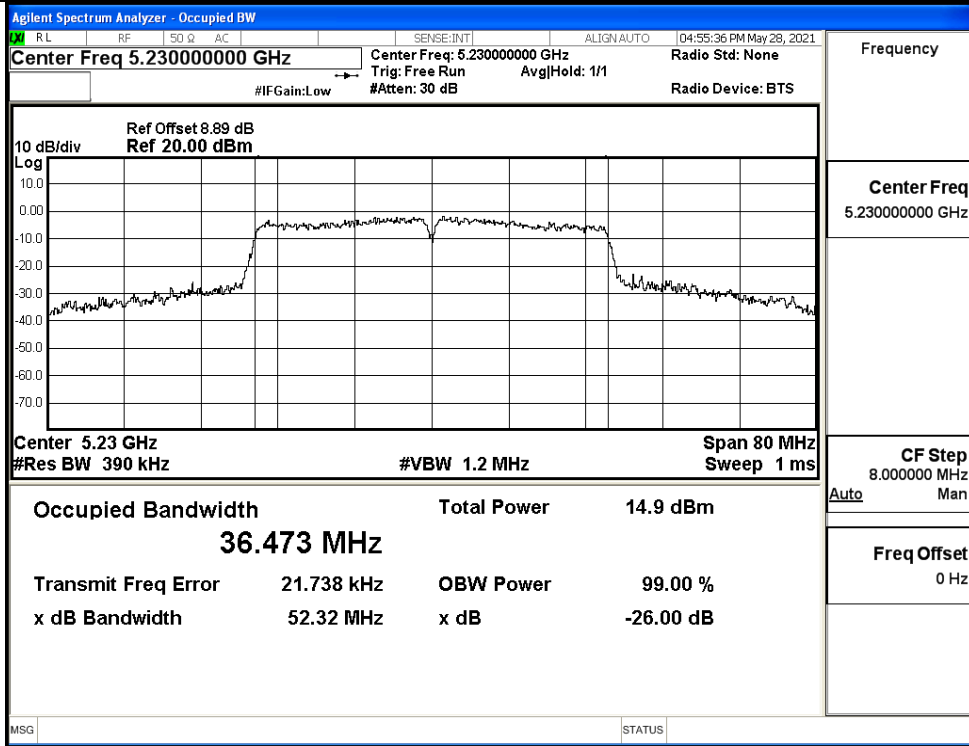
IEEE 802.11ac20 / Channel 40 / 5200MHz



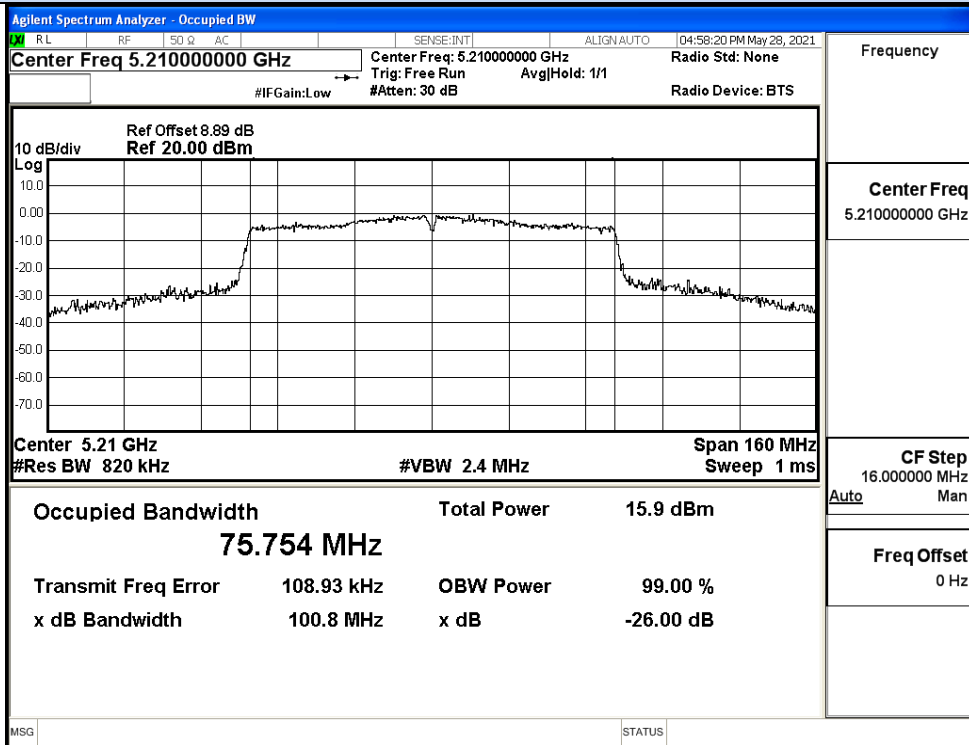
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

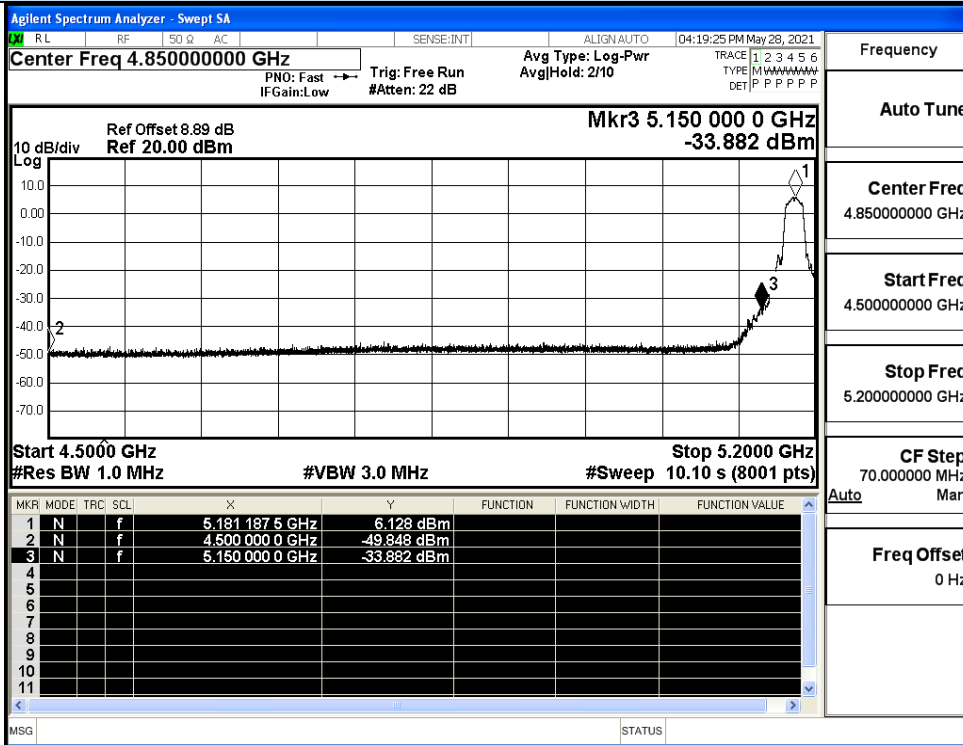


IEEE 802.11ac80 / Channel 42 / 5210MHz

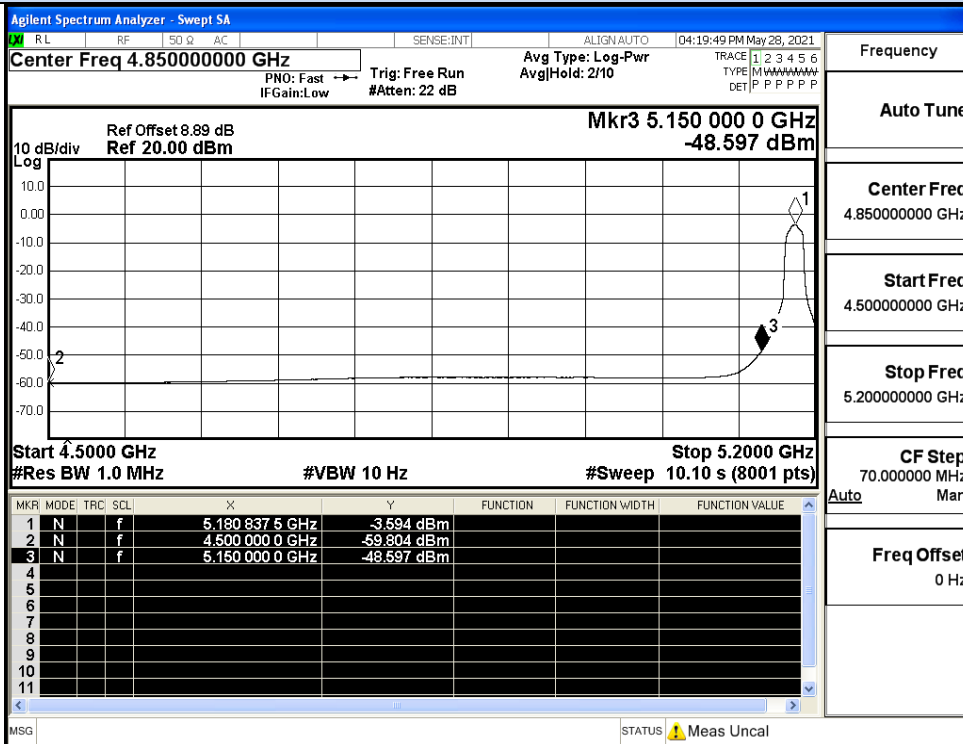
**D.5 Undesirable Emissions Measurement**

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	-49.85	2.00	0	45.38	Peak	68.20	Pass
		4500.0	-59.80	2.00	0	35.42	Average	54.00	Pass
		5150.0	-33.88	2.00	0	61.35	Peak	68.20	Pass
		5150.0	-48.60	2.00	0	46.63	Average	54.00	Pass
	48	5350.0	-49.26	2.00	0	45.97	Peak	68.20	Pass
		5350.0	-59.63	2.00	0	35.60	Average	54.00	Pass
		5460.0	-48.67	2.00	0	46.56	Peak	68.20	Pass
		5460.0	-59.60	2.00	0	35.63	Average	54.00	Pass
11N20 SISO	36	4500.0	-49.30	2.00	0	45.93	Peak	68.20	Pass
		4500.0	-59.71	2.00	0	35.52	Average	54.00	Pass
		5150.0	-34.55	2.00	0	60.68	Peak	68.20	Pass
		5150.0	-50.72	2.00	0	44.51	Average	54.00	Pass
	48	5350.0	-49.49	2.00	0	45.74	Peak	68.20	Pass
		5350.0	-59.65	2.00	0	35.58	Average	54.00	Pass
		5460.0	-49.64	2.00	0	45.59	Peak	68.20	Pass
		5460.0	-59.61	2.00	0	35.62	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.16	2.00	0	46.06	Peak	68.20	Pass
		4500.0	-59.73	2.00	0	35.50	Average	54.00	Pass
		5150.0	-29.49	2.00	0	65.73	Peak	68.20	Pass
		5150.0	-44.88	2.00	0	50.35	Average	54.00	Pass
	46	5350.0	-48.85	2.00	0	46.38	Peak	68.20	Pass
		5350.0	-59.12	2.00	0	36.11	Average	54.00	Pass
		5460.0	-48.99	2.00	0	46.24	Peak	68.20	Pass
		5460.0	-59.34	2.00	0	35.88	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.45	2.00	0	44.78	Peak	68.20	Pass
		4500.0	-59.71	2.00	0	35.52	Average	54.00	Pass
		5150.0	-35.42	2.00	0	59.81	Peak	68.20	Pass
		5150.0	-50.71	2.00	0	44.52	Average	54.00	Pass
	48	4500.0	-50.45	2.00	0	44.78	Peak	68.20	Pass
		4500.0	-59.71	2.00	0	35.52	Average	54.00	Pass
		5150.0	-35.42	2.00	0	59.81	Peak	68.20	Pass
		5150.0	-50.71	2.00	0	44.52	Average	54.00	Pass
11AC40 SISO	38	4500.0	-49.76	2.00	0	45.47	Peak	68.20	Pass
		4500.0	-59.73	2.00	0	35.50	Average	54.00	Pass
		5150.0	-30.88	2.00	0	64.35	Peak	68.20	Pass
		5150.0	-44.77	2.00	0	50.46	Average	54.00	Pass
	46	5350.0	-47.58	2.00	0	47.65	Peak	68.20	Pass
		5350.0	-59.15	2.00	0	36.08	Average	54.00	Pass
		5460.0	-49.56	2.00	0	45.67	Peak	68.20	Pass
		5460.0	-59.35	2.00	0	35.87	Average	54.00	Pass
11AC80 SISO	42	4500.0	-49.51	2.00	0	47.72	Peak	68.20	Pass
		4500.0	-59.73	2.00	0	37.50	Average	54.00	Pass
		5150.0	-39.50	2.00	0	57.73	Peak	68.20	Pass
		5150.0	-44.41	2.00	0	52.82	Average	54.00	Pass
		5350.0	-48.02	2.00	0	49.21	Peak	68.20	Pass
		5350.0	-57.91	2.00	0	39.32	Average	54.00	Pass
		5460.0	-49.56	2.00	0	47.67	Peak	68.20	Pass
		5460.0	-58.78	2.00	0	38.45	Average	54.00	Pass

Undesirable Emissions Measurement

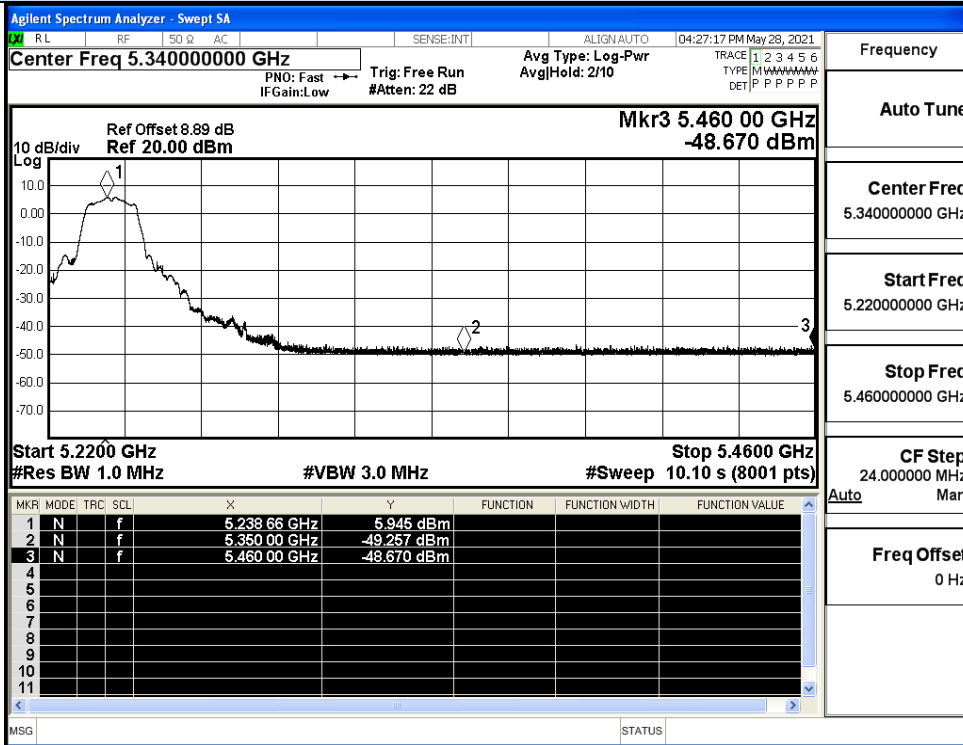


IEEE 802.11a / Channel 36 / 5180MHz / Peak

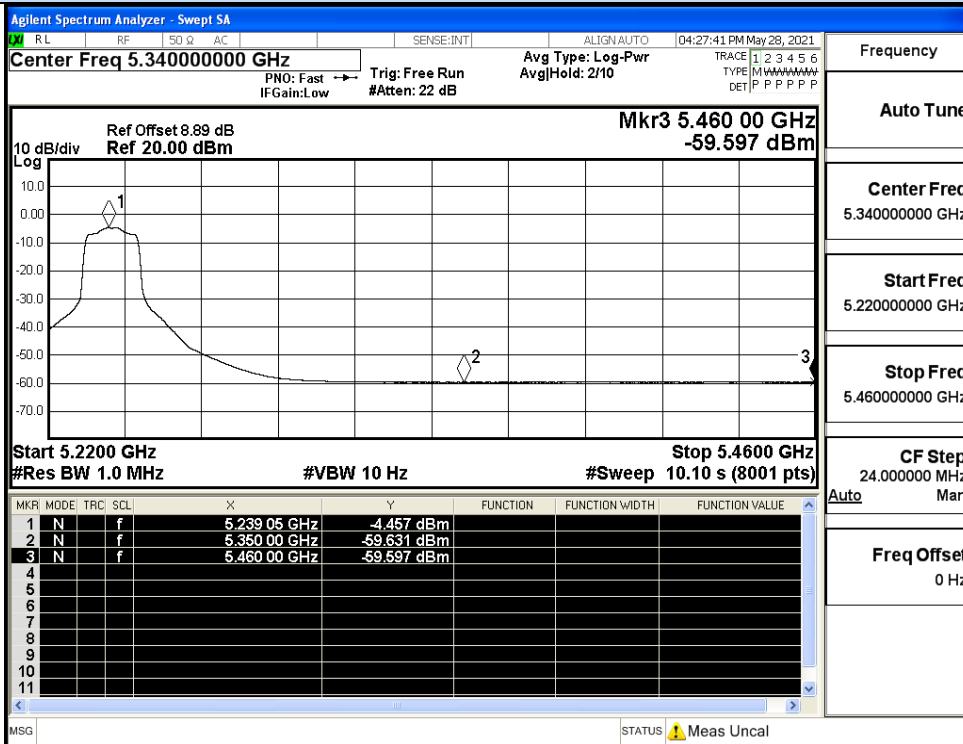


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement



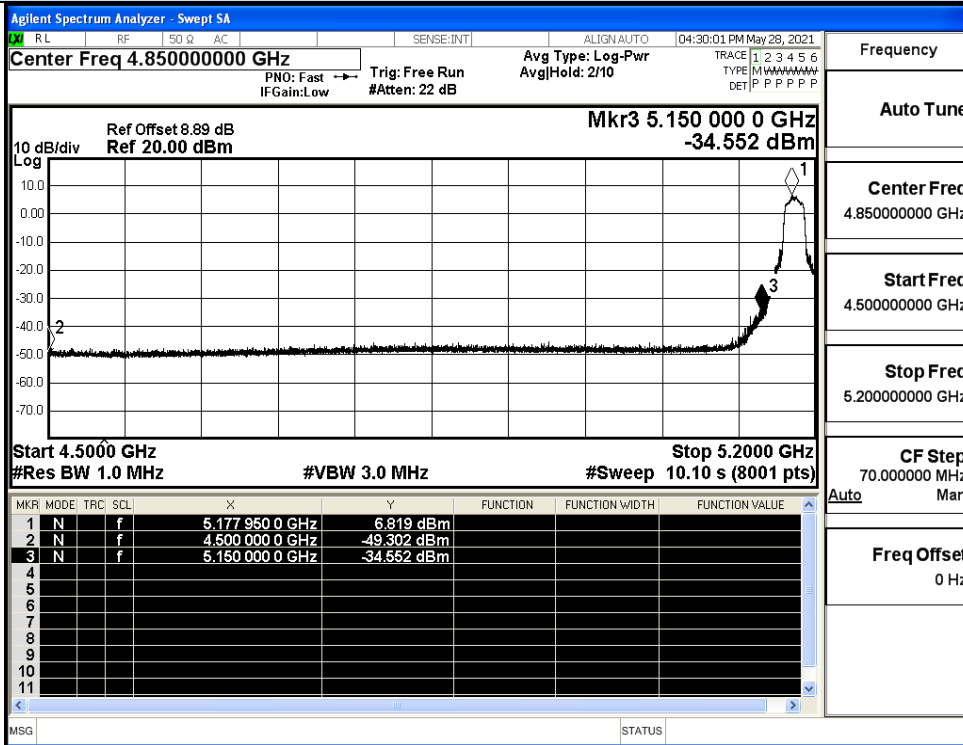
IEEE 802.11a / Channel 48 / 5240MHz / Peak



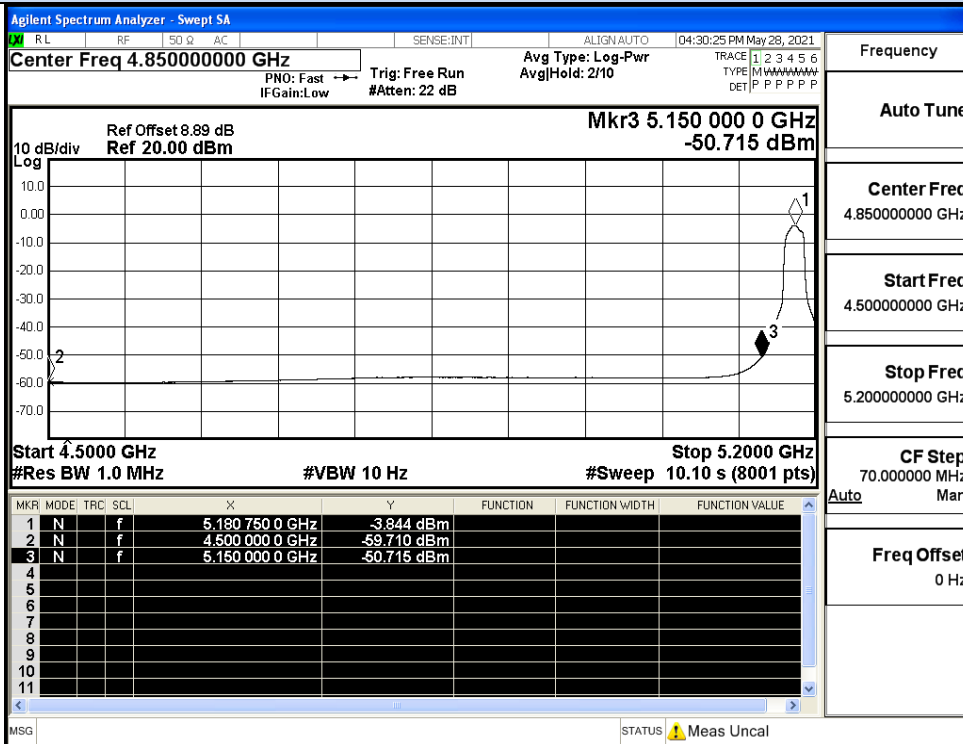
IEEE 802.11a / Channel 48 / 5240MHz / Average



Undesirable Emissions Measurement

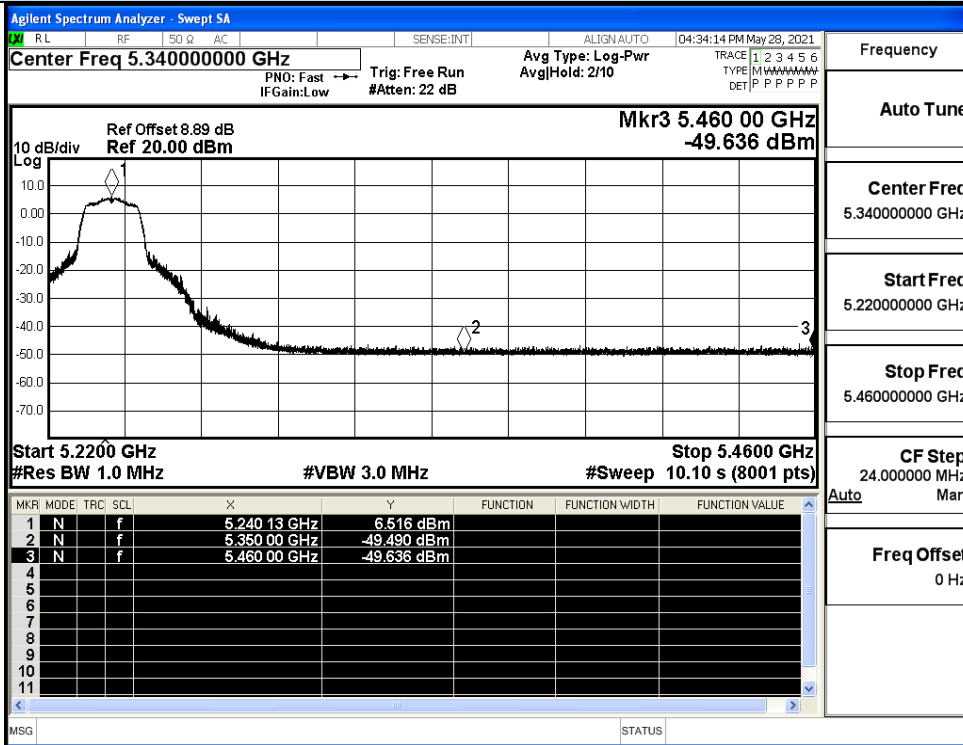


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

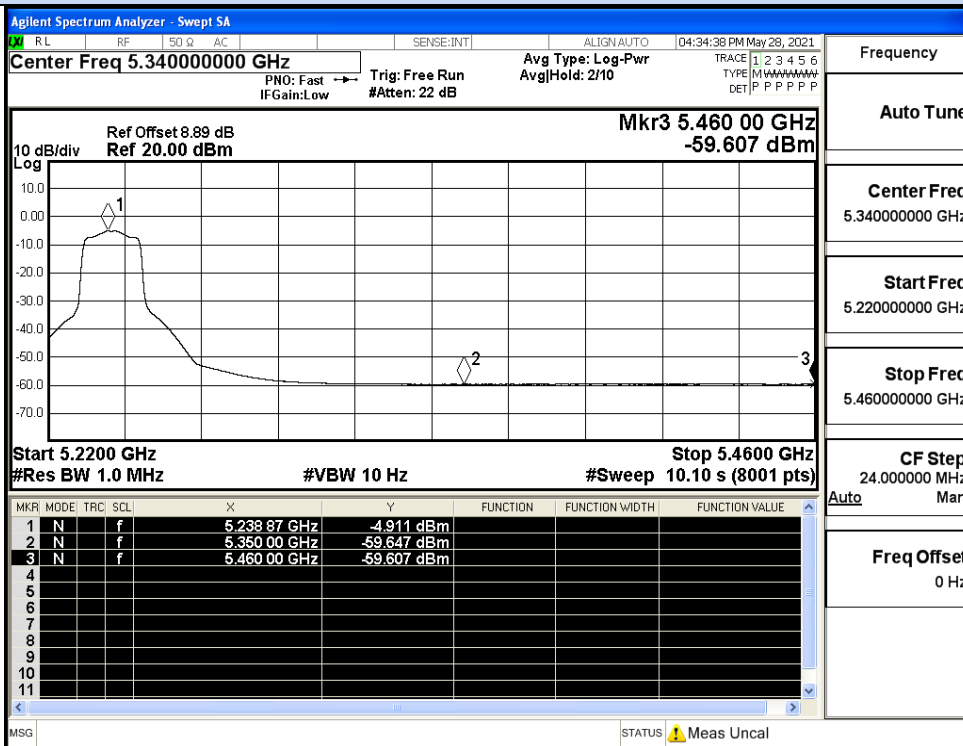


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

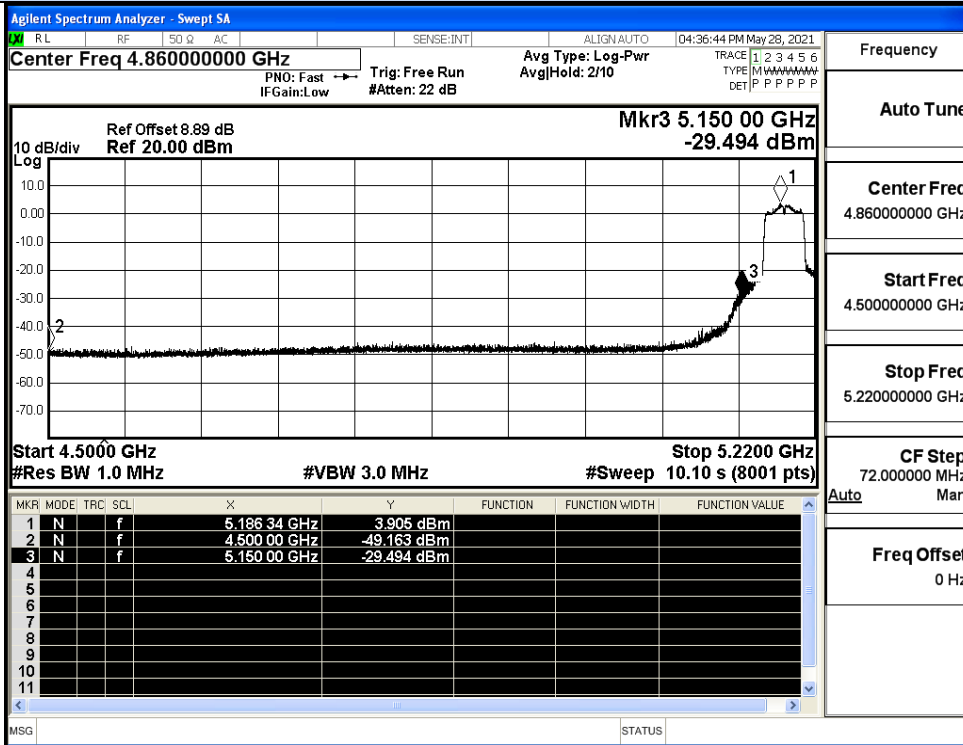


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

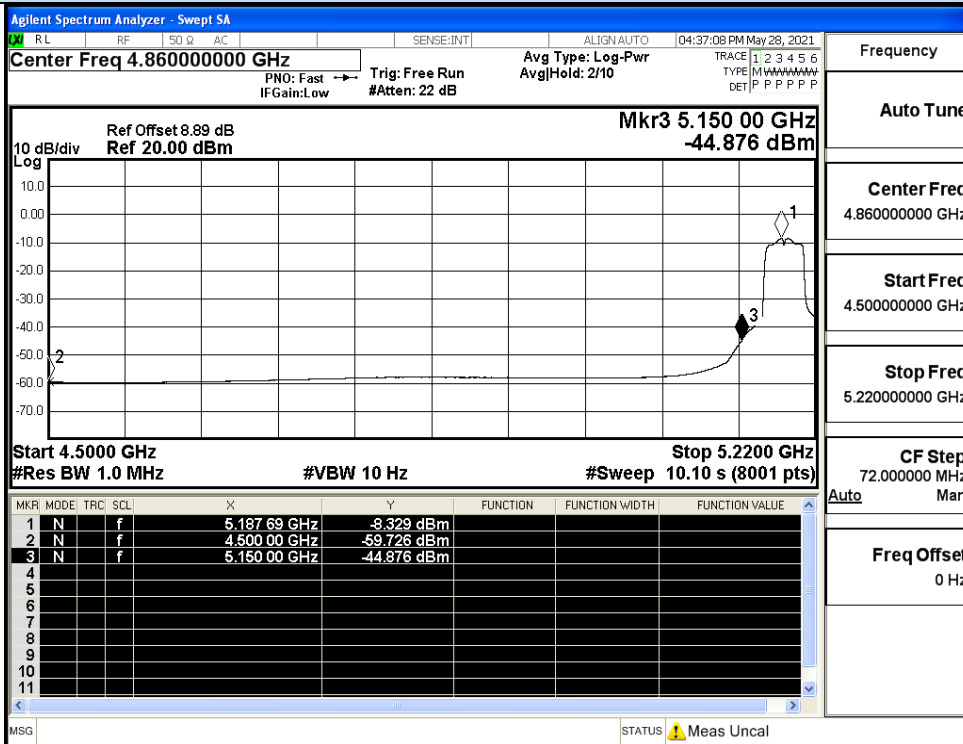


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

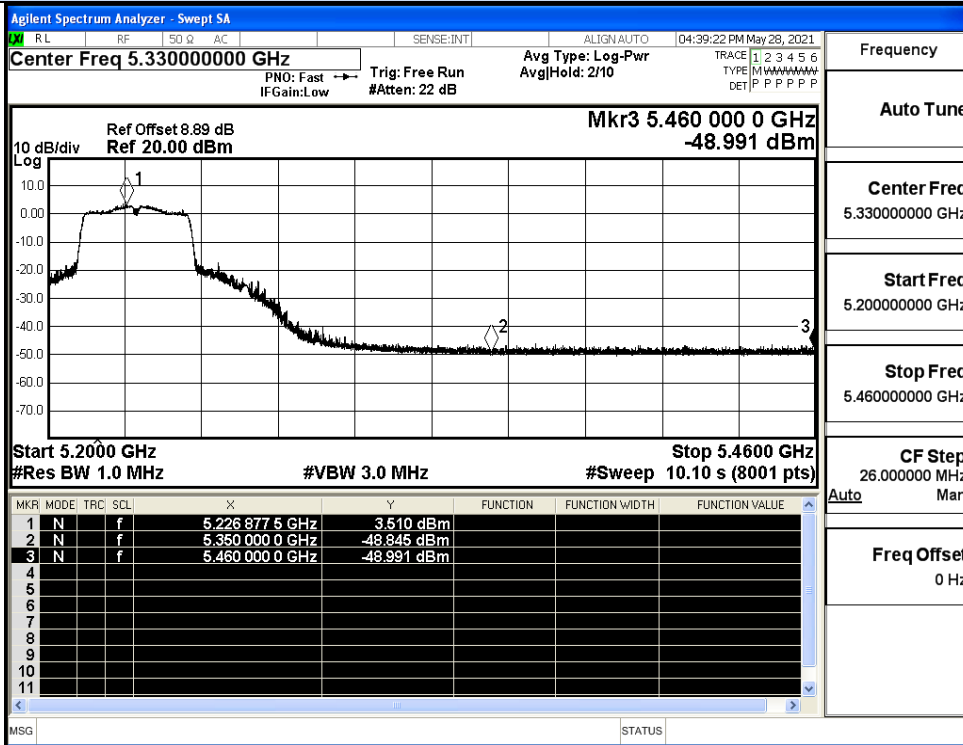


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

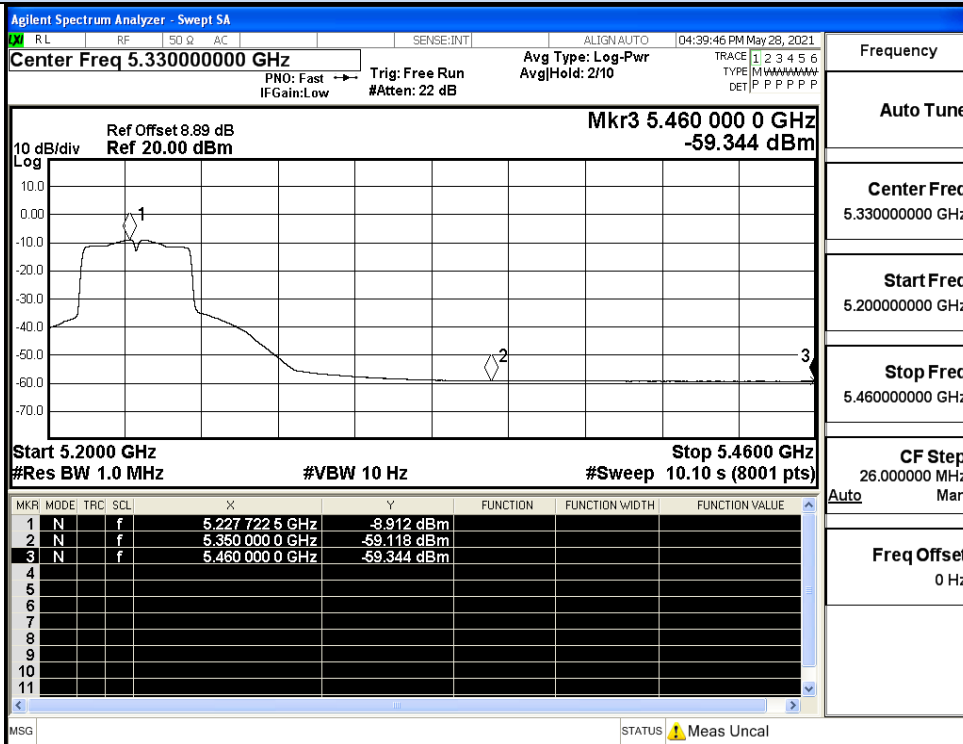


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

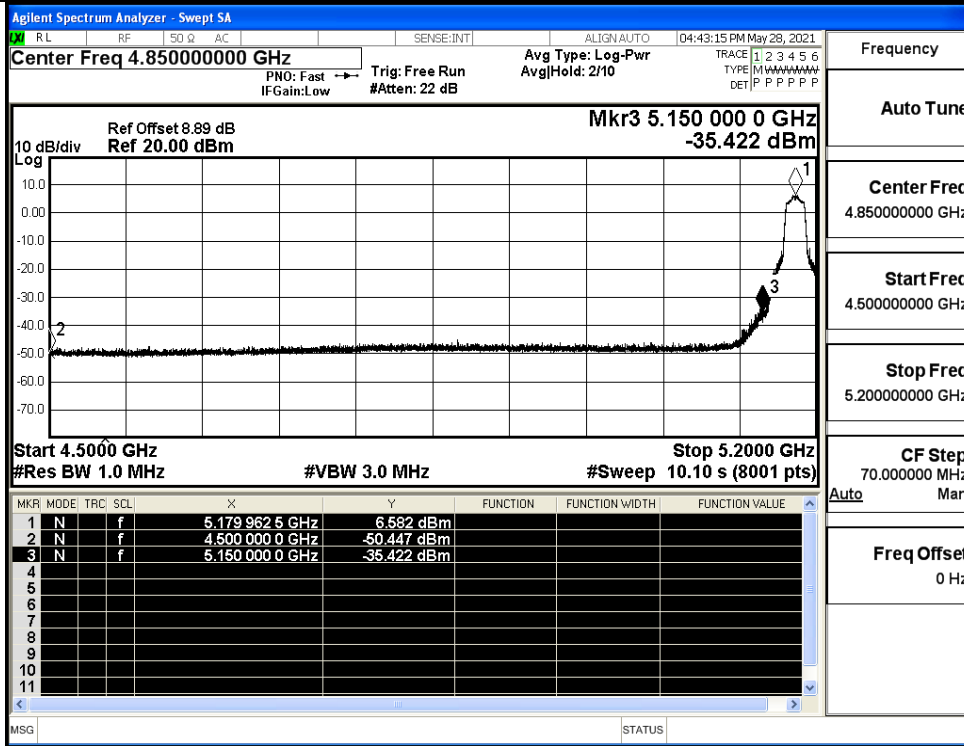
Undesirable Emissions Measurement



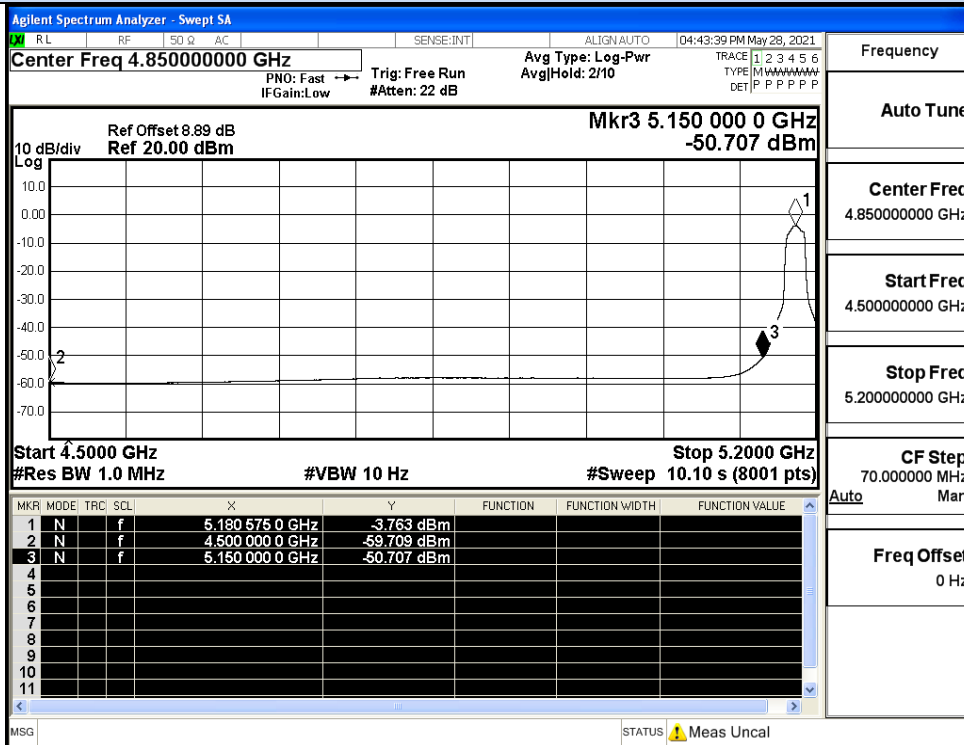
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



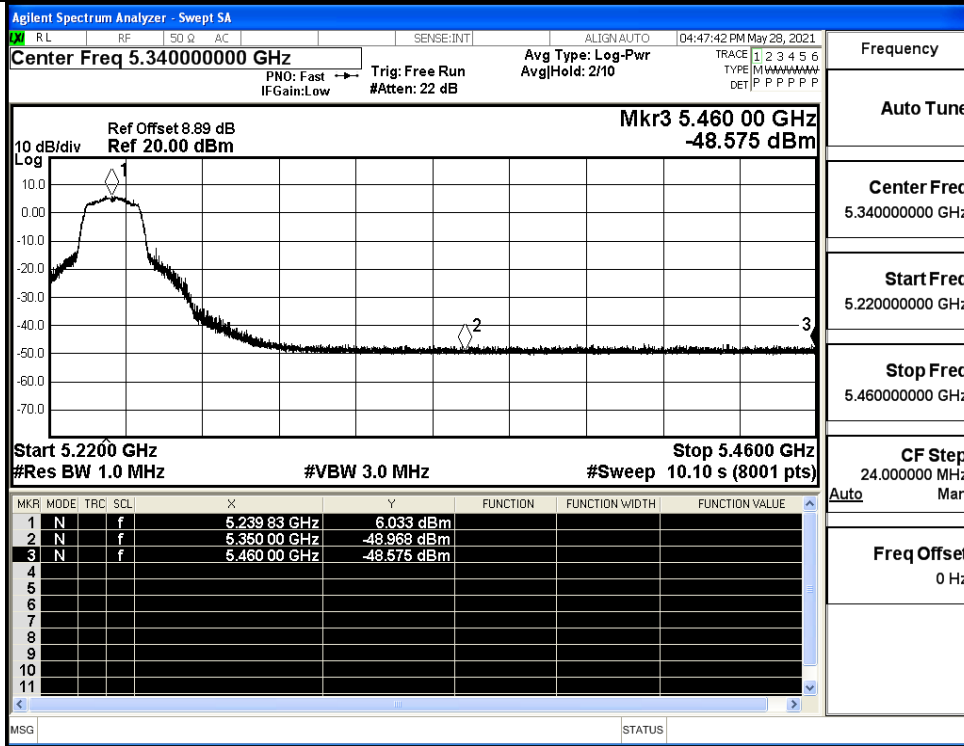
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



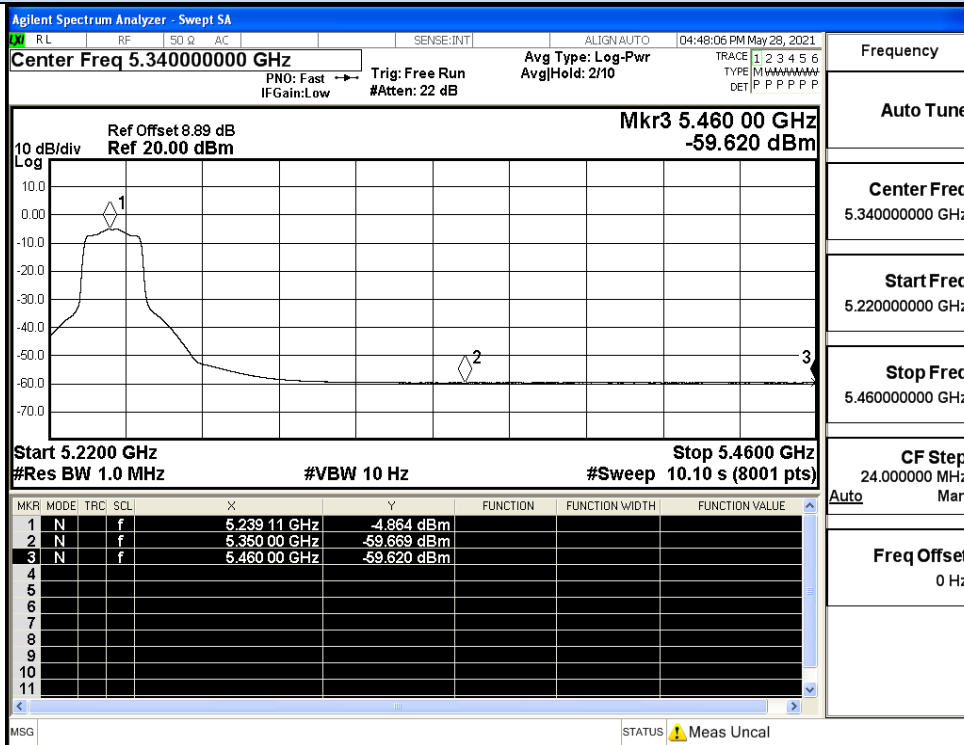
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



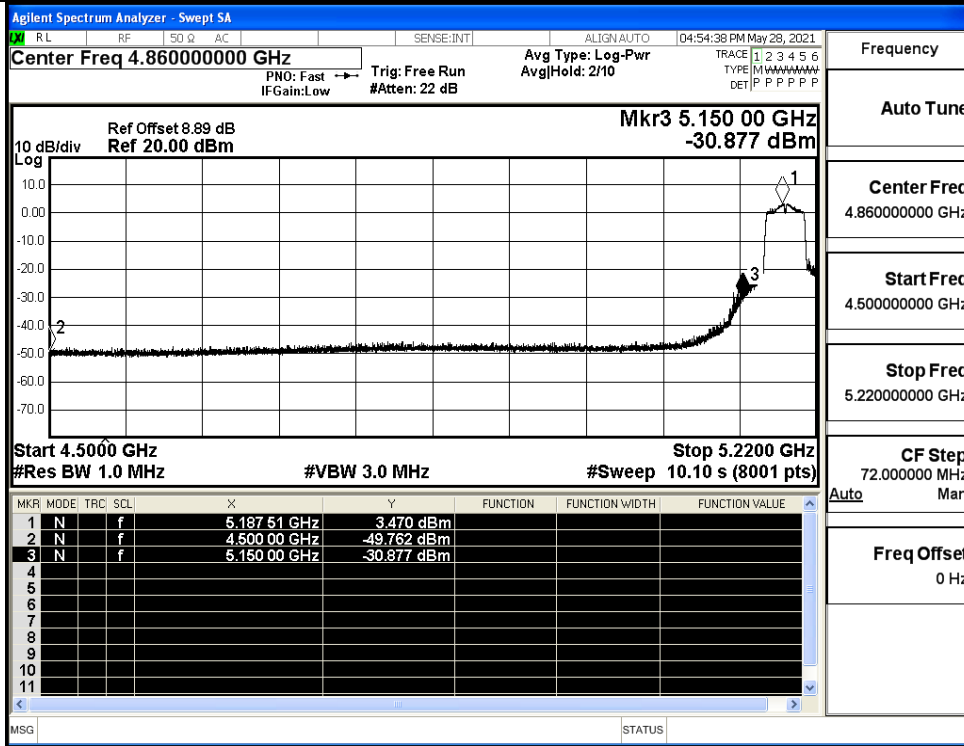
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



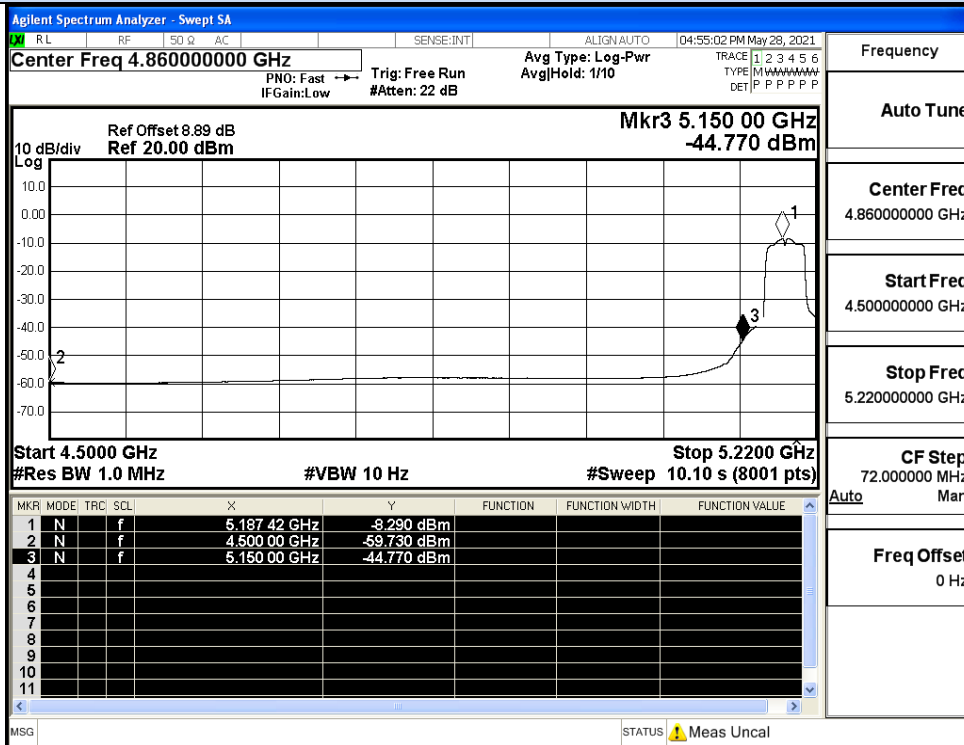
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



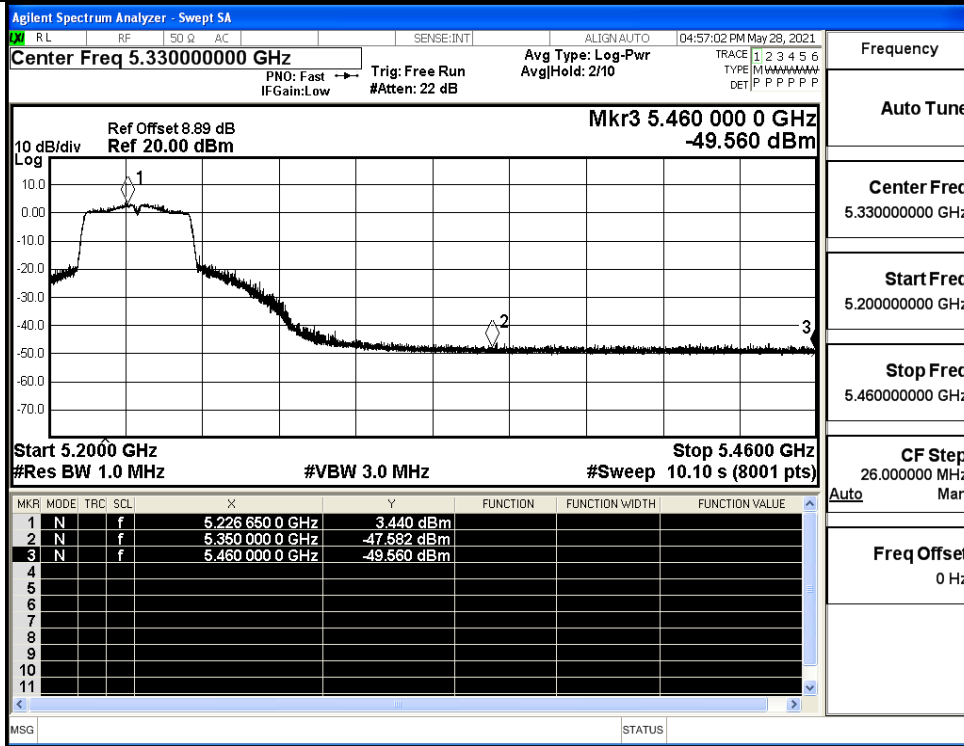
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



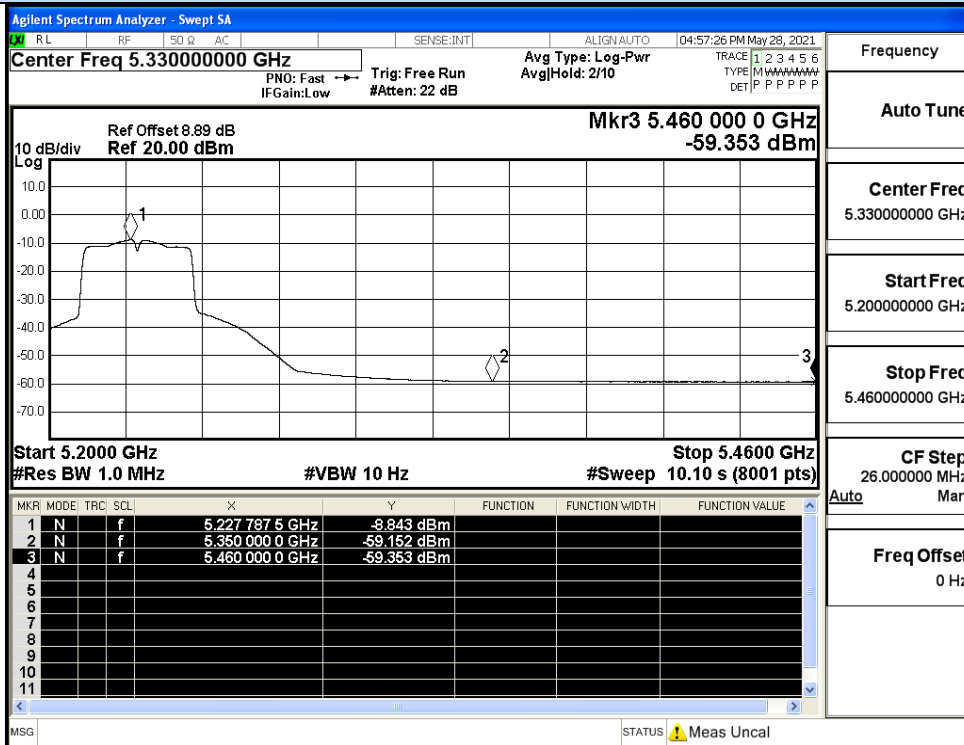
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



IEEE 802.11ac40 / Channel 38 / 5190MHz / Average

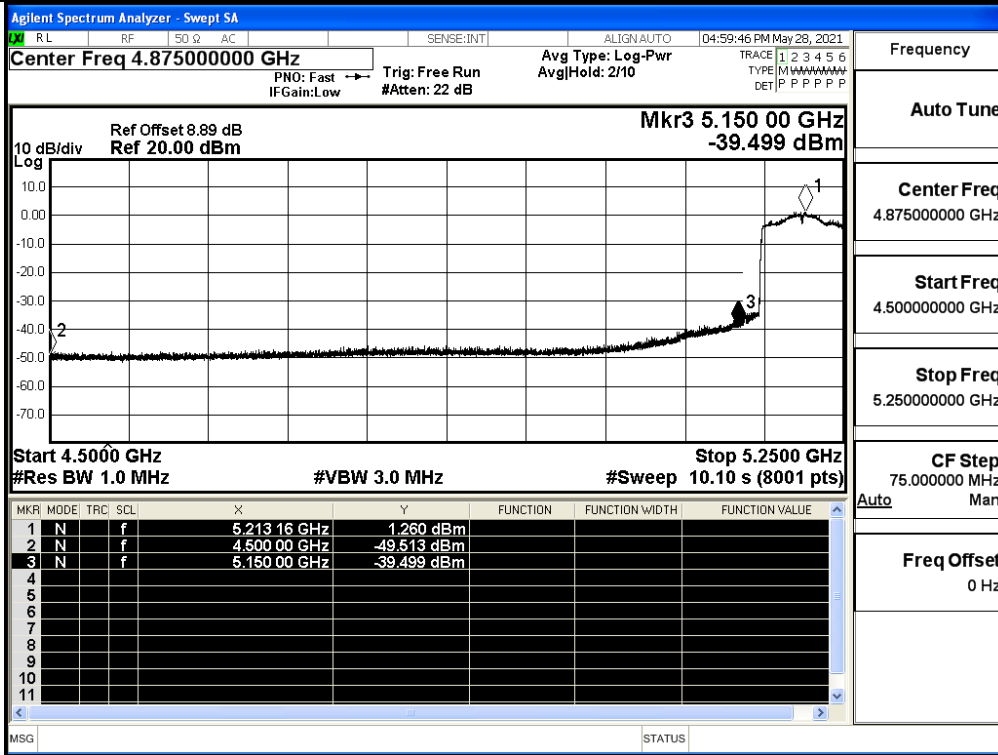


IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak

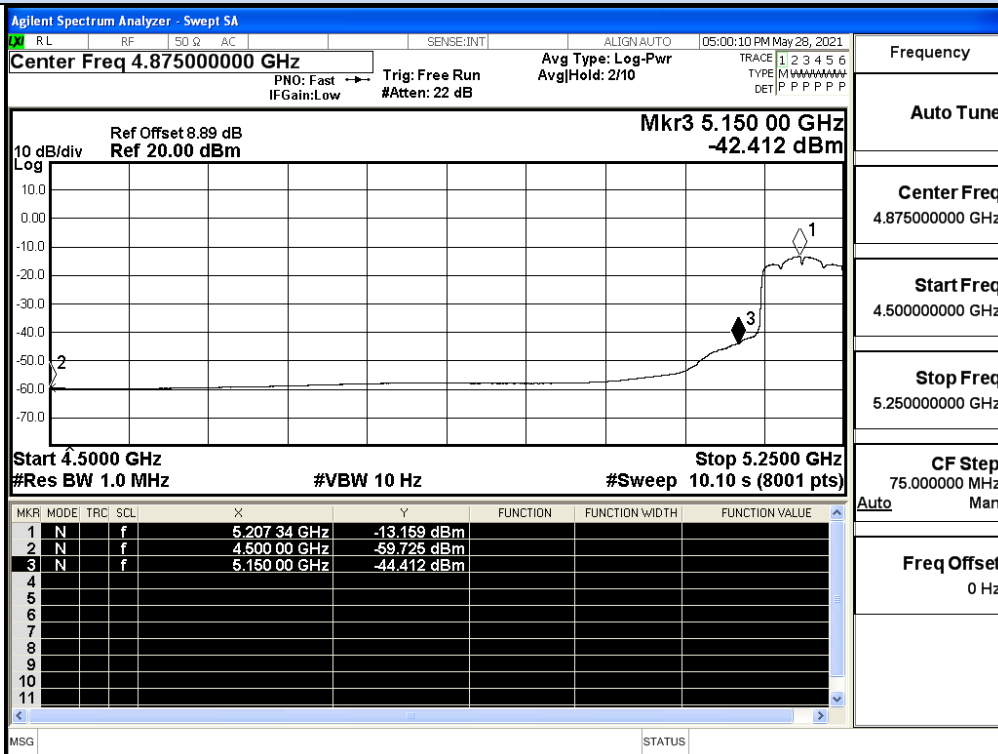


IEEE 802.11ac40 / Channel 46 / 5230MHz / Average

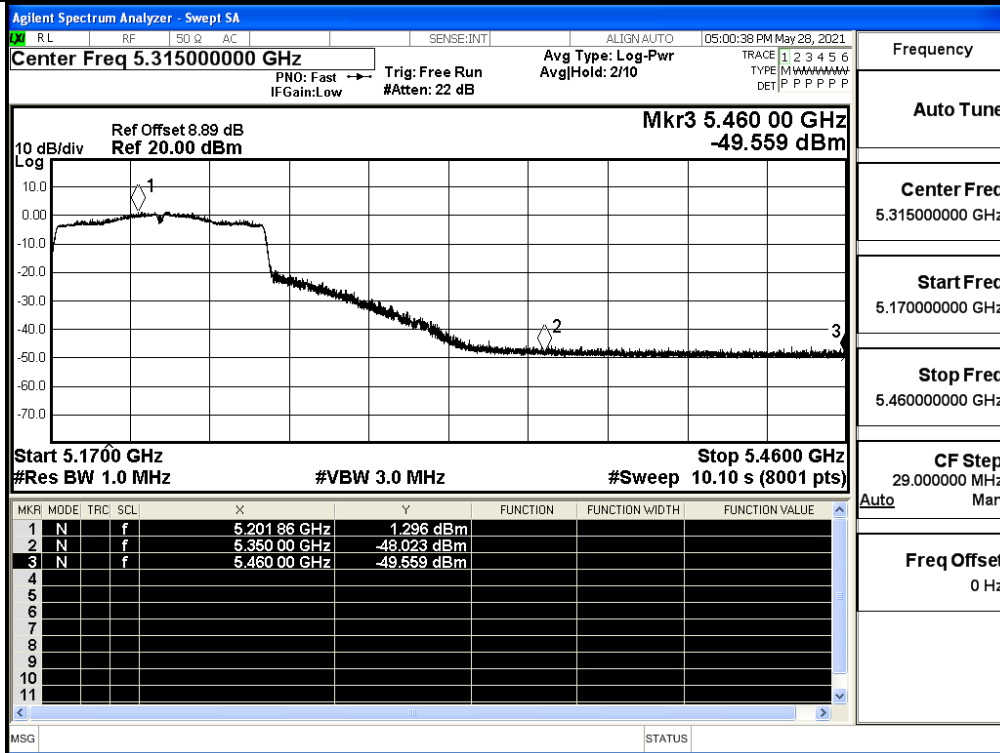




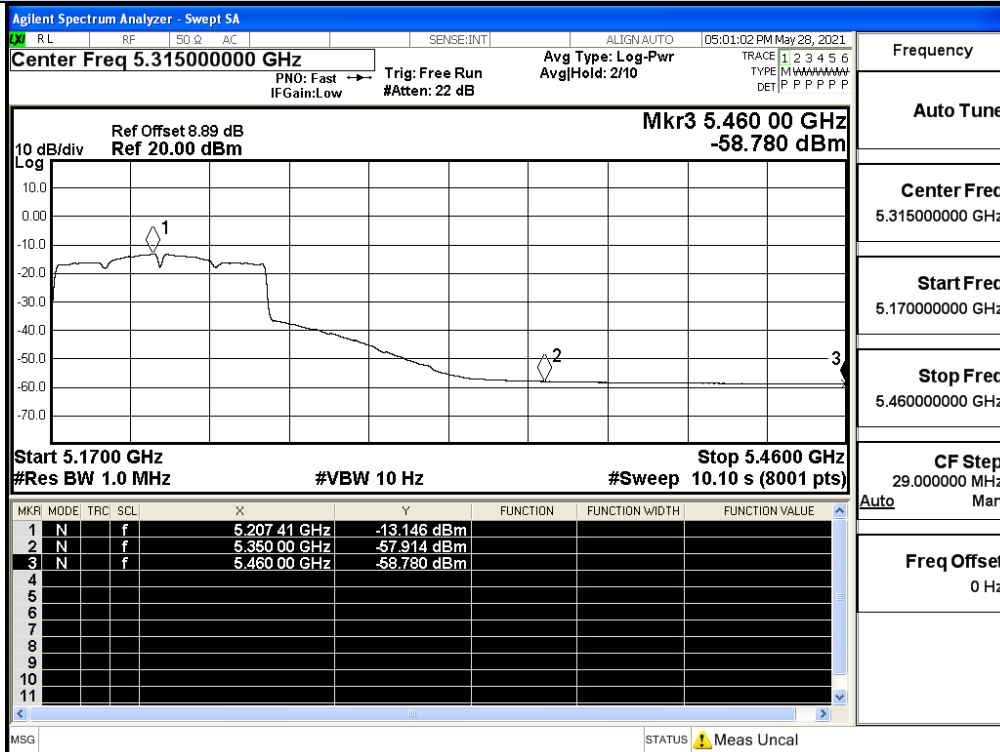
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average